



Open Source Used In Crosswork Change Automation and Health Insights 7.1.0

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1.290 backoff 4.3.0

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1.297 opentracing-go 1.2.0

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1.305 libintl 0.22.5-r0

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1.317 golang 1.22.5

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1.326 libcap-ng 0.8.4-2build2

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1.327 npth 1.6-3.1build1

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1.328 keyutils 1.6.3-3build1

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1.329 berkeley-db 5.3.28+dfsg2-7

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1.330 gnupg 2.4.4-2ubuntu17

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1.331 brotli 1.1.0-2build2

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1.333 hostname 3.23+nmu2ubuntu2

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1.334 debianutils 5.17build1

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1.336 libpsl 0.21.2-1.1build1

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1.344 base-passwd 3.6.3build1

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1.348 mawk 1.3.4.20240123-1build1

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1.349 rtmpdump 2.4+20151223.gitfa8646d.1-2build7

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1.471 zlib 1.3.1-r2

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1.479 bash 5.2.37-r0

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1.483 libproc2-0 4.0.4-4ubuntu3.2

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1.613 enterprise-certificate-proxy 0.3.2

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1.617 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.49.0

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1.627 etcd-api 3.5.16

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1.628 asm 1.2.0

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1.655 google-cloud-go-longrunning 0.5.9
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1.689 genproto-googleapis-rpc 0.0.0-20240814211410-ddb44dafa142

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1.697 v1-gonum 0.12.0

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1.699 otel-exporters-otlp-otlptrace-otlptracegrpc 1.27.0

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1.712 influxdb-client-go 2.12.3

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1.713 @grafana/ui 10.3.10

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1.714 sentry-go 0.12.0

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1.725 contrib-propagators-jaeger 1.28.0

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1.767 alpine-baselayout-data 3.6.8-r1

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1.833 golang 1.23.7

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1.854 etcd v3.5.16

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1.858 futures 3.10

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1.874 gonum-matrix 10.x

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1.875 gonum-lapack 10.x

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1.876 azure-sdk-for-go-sdk-azcore 10.x

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1.879 go-yaml 1.17.1

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1.880 google-cloud-go 0.115.0

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1.881 opentelemetry-collector-pdata 1.0.0-rcv0016

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1.883 @robot/pulse-lib 7.1.0-release-cnc710.2

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1.884 urfave-cli v3.3.3

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1.885 pcre2 10.42-4ubuntu2.1

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1.886 pcre2 10.43-r0

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1.887 go-autorest-autorest-validation 0.3.1

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1.888 go-autorest-autorest-to 0.4.0

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1.889 aws-sdk-go-v2 v1.55.3

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1.2 python3-asn1crypto 0.24.0

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1.3 go-radix 1.0.0

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1.4 opencensus 0.24.0

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1.5 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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1.6 nuid 1.0.1

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1.9 xstrings 1.3.1

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1.10 tre 0.8.0

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1.12 libyaml 0.2.5

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1.13 pyparsing 2.4.7

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1.27 typing-extensions 3.10.0.2

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF	yes	

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

is "not incompatible" with the GPL.

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

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1.28 decorator 5.1.0

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1.29 zipp 3.6.0

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1.30 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.31 queue 1.1.0

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1.32 xml-path 2.0.0-20150820204837-860cbeca3ebc

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1.33 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.34 oklog-run 1.1.0

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1.35 zap 1.17.0

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1.36 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.37 spf13-pflag 1.0.5

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1.38 blackfriday 2.1.0

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1.39 azure-pipeline-go 0.2.3

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1.40 gomemcache 0.0.0-20190913173617-a41fca850d0b

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1.41 jaeger-lib 2.4.1+incompatible

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1.42 trylock 0.0.0-20191027065348- ff7e133a5c54

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1.43 pretty 1.2.0

1.43.1 Available under license :

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1.44 golcs 0.0.0-20170316035057-

ecda9a501e82

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1.45 gojsondiff 1.0.0

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=====

This repository is build with following third party libraries. Thank you!

go-diff - <https://github.com/sergi/go-diff>

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golcs - <https://github.com/yudai/golcs>

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cli.go - <https://github.com/urfave/cli>

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ginkgo - <https://github.com/onsi/ginkgo>

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gomega - <https://github.com/onsi/gomega>

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1.46 com 1.0.1

1.46.1 Available under license :

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1.47 vividcortex-mysqlerr 0.0.0-20170204212430-6c6b55f8796f

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1.48 cheekybits-genny 1.0.0

1.48.1 Available under license :

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1.49 go-testing-interface 1.14.1

1.49.1 Available under license :

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1.50 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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```
/*  
* Generated by ncsc --mib2yang-std  
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib  
*/  
/*  
* This YANG module has been generated by smidump 0.5.0:  
*  
*   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB  
*  
* Do not edit. Edit the source file instead!  
*/
```

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {  
  
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";  
    prefix "cisco-image-license-mgmt-mib";  
  
    import ENTITY-MIB {  
        prefix "entity-mib";  
    }  
  
    import SNMP-FRAMEWORK-MIB {  
        prefix "snmp-framework";  
    }  
  
    import ietf-yang-smiv2 {  
        prefix "smiv2";  
    }  
  
    organization
```

"Cisco Systems Inc.";

contact

"Cisco Systems

Customer Service

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San Jose, CA 95134

USA

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description

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level.

This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity

license on the device.

- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {  
  description  
    "Initial version of this MIB module.";  
}
```

```
typedef BootImageLevel {  
  type binary {  
    length "0..255";  
  }  
  description  
    "This textual convention is used to define  
    the image level.
```

```
  
  If the device is running at advipservices  
  image level, then the boot image level will  
  be 'advipservices'.  
}
```

```
typedef LicenseNameList
```

```

{
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the list of license names. If multiple licenses
    are present then this string will contain all
    the licenses seperated by the ',' character.

    If the license required to run a device at
    advipservices image level is advipservices and
    advsecurity, then the license name list will be
    'advipservices,advsecurity'.";
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
  config false;

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description
        "This object when set to TRUE means that the user has
        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license.";
      smiv2:defval
        "false";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
    }
  }

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

    leaf cilmImageLevelChangedNotif {
      type boolean;
      description
        "Specify whether or not a notification should be
        generated on the detection of change in next boot
        image level.

```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

reference

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document.";

smiv2:defval "false";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";

}

}

container cilmBootImageLevelTable {

description

"A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

list cilmBootImageLevelEntry {

key "entPhysicalIndex cilmModuleName";

description

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

```

leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}

```

```

leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}

```

```

leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
    of the module for the next boot.

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}

```

```

leaf cilmNextBootImageLevel {
  type
cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

```

```
leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
```

```
}
```

```
leaf cilmCurrentLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the currently used
    license. This object has the same value as clmgmtLicenseIndex and
    uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
```

```
}
```

```
leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
```

```
CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
```

```
}
```

```
leaf cilmNextBootLicenseIndex {
```

```

type uint32;
description
    "This object indicates the license index of the next boot
    license. This object has the same value as clmgmtLicenseIndex
    and uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license index can be '0' if no license is installed for the next boot.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";

```

```

}
}
}

```

```

container cilmImageLevelToLicenseMapTable {
description
    "This table contains the mapping between different
    image levels of each modules in the
image and the

```

```

    license required to run the modules at a particular
    image level. This table can be used to identify the
    different image levels and the appropriate licenses
    required for each.";

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

```

```

list cilmImageLevelToLicenseMapEntry {
key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
    "An entry in the table containing the following
    information.

```

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license.";

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

```

```

leaf entPhysicalIndex {
type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

}
}

```

```

leaf cilmModuleName {
type leafref {

```



```

    path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
  }
}

```

```

leaf cilmImageLicenseMapIndex {
  type uint32;
  description
    "This is a running index used to identify an entry
    of this table.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

```

```

leaf cilmImageLicenseImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the image level at which
    a module can be run. A module can be run at
    different image levels. An entry will be created
    in this table for every module and image level
    combination.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

```

```

leaf cilmImageLicenseName {
  type cisco-image-license-mgmt-mib:LicenseNameList;
  description
    "This object indicates the list of licenses needed to
    be installed for the module to run at the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

```

```

leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
    "This object indicates the priority of the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry. The image level with the highest priority license
    will be considered as the default level in the absense of
    next boot image level configuration. For example if there

```

are three licenses l1, l2 and l3 in the ascending order of

priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";

```
}  
}  
}  
}
```

notification cilmBootImageLevelChanged {

description

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively.";

smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

container object-1 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

```
}  
}
```

leaf cilmModuleName {

type leafref {

path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-mgmt-mib:cilmModuleName";

```
}  
}
```

leaf cilmCurrentImageLevel {

type leafref {

path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-mgmt-mib:cilmCurrentImageLevel";

```
}  
}  
}
```

```

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf cilmModuleName {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
        }
    }

    leaf cilmConfiguredBootImageLevel {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
        }
    }
}

smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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--

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--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
NOTIFICATION-TYPE
FROM SNMPv2-SMI
jnxLicenseMibRoot
FROM JUNIPER-SMI
DisplayString
FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY
LAST-UPDATED "201007090000Z"
ORGANIZATION "Juniper Networks, Inc."
CONTACT-INFO

"Juniper Technical Assistance Center
Juniper Networks, Inc.
1194 N. Mathilda Avenue
Sunnyvale, CA 94089
E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."
::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****
-- License table for installed licenses
-- *****

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE
 SYNTAX JnxLicenseInstallEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION "A row of giving installed
 feature license information."
 INDEX { IMPLIED jnxLicenseId }
 ::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {
 jnxLicenseId DisplayString,
 jnxLicenseVersion INTEGER,
 jnxLicenseDeviceId DisplayString,
 jnxLicenseType INTEGER,
 jnxLicenseKeys OCTET STRING
 }

jnxLicenseId OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION "Installed feature licenses Id."
 ::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE
 SYNTAX INTEGER
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION "License Version information"
 ::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE
 SYNTAX DisplayString
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION "License Device Id "
 ::= { jnxLicenseInstallEntry
 3 }

jnxLicenseType OBJECT-TYPE
 SYNTAX INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION "License type information"
 ::= { jnxLicenseInstallEntry 4 }

jnxLicenseKeys OBJECT-TYPE

```

SYNTAX      OCTET STRING
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION  "License Keys"
::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION  "list of features supporting Licensing."
    ::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE
    SYNTAX      JnxLicenseFeatureListEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION  "A row of licensed features."
    INDEX       { jnxLicenseFeatureId
    }
    ::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {
    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName    DisplayString,
    jnxLicenseFeatureDescr   DisplayString,
    jnxLicenseFeatureLicenseId DisplayString,
    jnxLicenseFeatureLicenseUsed  INTEGER,
    jnxLicenseFeatureLicenseInstalled  INTEGER,
    jnxLicenseFeatureLicenseNeeded  INTEGER
}

jnxLicenseFeatureId OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION  "Feature Id to point an entry in this table"
    ::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "Feature Name"
    ::= { jnxLicenseFeatureListEntry 2 }

```

jnxLicenseFeatureDescr OBJECT-TYPE

SYNTAX

DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature Name"

::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature License Id"

::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Used"

::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Installed"

::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Licenses Needed"

::= { jnxLicenseFeatureListEntry 7 }

-- *****

-- License configuration parameters

-- *****

jnxLicenseRenewBeforExpiration OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License renew lead time before expiration in days."


```
::= { jnxLicenseSettings 1 }
```

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License checking interval in hours."

```
::= { jnxLicenseSettings 2 }
```

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License auto update URL of a license server."

```
::= { jnxLicenseSettings
```

```
3 }
```

```
-- *****
```

```
-- define branches for jnx license traps
```

```
-- *****
```

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is expired"

```
::= { jnxLicenseNotifications 1 }
```

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire"

```
::= { jnxLicenseNotifications 2 }
```

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for

```
feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }
```

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

```
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName"
::= { jnxLicenseNotifications 4 }
```

jnxLicenseInfringeSingle NOTIFICATION-TYPE

```
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available."
::= { jnxLicenseNotifications 5 }
```

END

```
/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 *   smidump -f yang CISCO-LICENSE-MGMT-MIB
 *
 * Do not edit. Edit the source file instead!
 */
```

```
module CISCO-LICENSE-MGMT-MIB {
```

```
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
    prefix "cisco-license-mgmt-mib";
```

```
    import ENTITY-MIB {
        prefix "entity-mib";
    }
```

```
    import INET-ADDRESS-MIB {
        prefix "inet-address";
    }
```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import SNMPv2-TC {  
    prefix "snmpv2-tc";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service
```

```
Postal: 170 W Tasman Drive
```

```
San Jose, CA 95134
```

```
USA
```

```
Tel: +1 800 553 -NETS
```

```
E-mail: cs-snmp@cisco.com";
```

```
description  
"The MIB module for managing licenses on the system.
```

The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a
device. It comprises of product ID, version ID and serial
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device
identifiers in the system. For example, the license
can be locked to the UDI value of one of the devices

in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time

and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal

as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between

a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.

Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup

action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
paidSubscription
evaluationSubscription
```

```

        extensionSubscription
    o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicenseStartDate
        clmgmtLicenseEndDate
    o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeatureStartDate
        clmgmtFeatureEndDate
    o Added the following notifications
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
    o Added the following conformance groups
        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2006-10-03 {
    description
        "Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {
    type uint32 {
        range "1..4294967295";
    }
    description
        "A unique value, for each license in the managed system.
        It is not necessary to have values assigned contiguously.
        The value for each license must remain constant
        at least from one re-initialization of the entity's
        network management system to the next re-initialization";
}

```

```

typedef ClmgmtLicenseIndexOrZero {
    type uint32;
    description
        "This textual convention is an extension of the ClmgmtLicenseIndex
        convention.
        The latter defines a greater than zero value
        used to identify a license in the managed system. This
        extension permits the additional value of zero. The value
        zero is object-specific and must therefore be defined as
        part of the description of any object which uses this
        syntax. Examples of the usage of zero might include
        situations where license was not present or unknown.";
}

```

```
typedef ClmgmtLicenseTransferProtocol {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "local" {
            value "2";
        }
        enum "tftp" {
            value "3";
        }
        enum "ftp" {
            value "4";
        }
        enum "rcp" {
            value "5";
        }
        enum "http" {
            value "6";
        }
        enum "scp" {
            value "7";
        }
        enum "sftp" {
            value "8";
        }
    }
    description
    "The transfer protocol that should be used for copying files
    when performing license management. When
    the protocol is
    set to local(2), local file system (flash or disk) is used.
    Different agents may support different transfer protocols
    and the management application is expected to some how determine
    which protocol is supported and use.";
}
```

```
typedef ClmgmtLicenseActionState {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "pending" {
            value "2";
        }
        enum "inProgress" {
            value "3";
        }
    }
}
```

```

enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

none(1)          - action is not yet scheduled to be
                  executed.

pending(2)        - All the required parameters for the
                  action are set and the action is
                  scheduled
to be executed.

inProgress(3)     - action execution has started and is
                  in progress.

successful(4)     - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
                  partially successful. Management
                  application can query additional MIB
                  objects to know what is successful
                  and what has failed. These additional
                  objects are listed in the
                  description of the corresponding
                  action tables.

failed(6)         - action has failed.";
}

typedef ClmgmtLicenseActionFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "generalFailure" {
            value "2";
        }
        enum "transferProtocolNotSupported" {
            value

```

```

"3";
}
enum "fileServerNotReachable" {
    value "4";
}
enum "unrecognizedEntPhysicalIndex" {
    value "5";
}
enum "invalidLicenseFilePath" {
    value "6";
}
enum "invalidLicenseFile" {
    value "7";
}
enum "invalidLicenseLine" {
    value "8";
}
enum "licenseAlreadyExists" {
    value "9";
}
enum "licenseNotValidForDevice" {
    value "10";
}
enum "invalidLicenseCount" {
    value "11";
}
enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket"

```

```

{
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no
 errors.

generalFailure(2) - General licensing failure.
 This will be used for resource
 unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
 supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
 valid

invalidLicenseFilePath(6) - The license file path is not
 accessible.

invalidLicenseFile(7) - Contents of license file are
 not valid.

invalidLicenseLine(8) - License string in the license
 file is not valid.

licenseAlreadyExists(9) - Management application is trying
 to install a license that already
 exists.

licenseNotValidForDevice(10) - This license is not valid for
 the device/entPhysicalIndex
 specified.

invalidLicenseCount(11) - Invalid count for this counted
 license.

invalidLicensePeriod(12) - Validity period is invalid for
this expiring license.

licenseInUse(13) - License file is in use by a
feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the
license storage.

invalidPermissionTicketFile(16) - The permission ticket file
path is not accessible.

invalidPermissionTicket(17) - The permission ticket file
contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is
not accessible.

invalidRehostTicket(19) - The rehost ticket file contents
are not valid.

invalidLicenseBackupFile(20) - License backup store path
is not accessible.

licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This
error code is sent back in
response to a license backup
action when a license clear
action is in progress or in
pending state. Try again in few
seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible.";

}

container CISCO-LICENSE-MGMT-MIB {
config false;

container clmgmtLicenseConfiguration {
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

leaf clmgmtNextFreeLicenseActionIndex {
type uint32 {
range "1..4294967295";
}
description
"This object contains appropriate value for
clmgmtLicenseActionIndex that can be used to create
an entry in clmgmtLicenseActionTable. The management application
should read this object first and then use this as the

value for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
  }
}

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

  leaf clmgmtNextFreeDevCredExportActionIndex {
    type uint32;
    description
      "This object contains appropriate value for
      clmgmtDevCredExportActionIndex that can be used to create
      an entry in clmgmtDevCredExportActionTable. The management
      application should read this object first and then use this
      as the value for clmgmtDevCredExportActionIndex to avoid
      collisions when creating entries in
      clmgmtDevCredExportActionTable. Following this approach does
      not guarantee collision free row creation, but will reduce
      the probability. The collision will happen if two
      management applications read this object at the same time and
      attempt to create an entry
      with this value at the same time.
      In this case, the management application whose request is
      processed after the first request will get an error and the
      process of reading this object and entry creation needs to be
      repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;

```


description
"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition";

smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}

leaf clmgmtLicenseDeploymentNotifEnable {

type boolean;

description

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted";

smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}

leaf clmgmtLicenseErrorNotifEnable {

type boolean;

description

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

clmgmtLicenseNotEnforced";

smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

container clmgmtLicenseActionTable {

description

"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of `clmgmtLicenseAction` for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

list `clmgmtLicenseActionEntry` {

key "clmgmtLicenseActionIndex";

description

"An entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action

execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
 - c. `clmgmtLicenseServerAddress`
 - d. `clmgmtLicenseServerUsername`
 - e. `clmgmtLicenseServerPassword`
 - f. `clmgmtLicenseFile`
 - g. `clmgmtLicenseStore`
 - h. `clmgmtLicenseStopOnFailure`
 - i. `clmgmtLicenseAcceptEULA`
 - j. `clmgmtLicenseAction`

`clmgmtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

`clmgmtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of `clmgmtLicenseStore`

is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword

g.
clmgtLicenseBackupFile
h. clmgtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicenseFile
- g. clmgtLicenseEULAFile
- h. clmgtLicenseAction

For any action, if clmgtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgtLicenseServerAddressType
- b. clmgtLicenseServerAddress
- c. clmgtLicenseServerUsername
- d. clmgtLicenseServerPassword

Entry can be deleted

except when clmgtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgtLicenseActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgtLicenseActionTable. The management application should choose  
    this value by reading clmgtNextFreeLicenseActionIndex  
    while creating an entry in this table. If an entry already  
    exists with this index, the creation of the entry will not  
    continue and error will be returned. The management application  
    should read the value of clmgtNextFreeLicenseActionIndex  
    again and retry with the new value for this object.";  
  smiv2:max-access "not-accessible";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";  
}
```

```
leaf clmgtLicenseActionEntPhysicalIndex
```

```

{
    type entity-mib:PhysicalIndexOrZero;
    description
        "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
        "This object represents the transfer protocol to be used
        when copying files as specified in the following objects.
        1. clmgmtLicenseFile
        2. clmgmtLicensePermissionTicketFile
        3. clmgmtLicenseRehostTicketFile
        4. clmgmtLicenseBackupFile

        Note: This object need not be set if the all the files
        required for the action are in device's local file system.";
    smiv2:defval "none";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}

leaf clmgmtLicenseServerAddressType {
    type inet-address:InetAddressType;
    description
        "This object indicates the transport type of the
        address contained in clmgmtLicenseServerAddress object.
        This must be set when clmgmtLicenseActionTransferProtocol
        is not none(1) or local(2).";
    smiv2:defval
"unknown";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}

```

```
leaf clmgmtLicenseServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the ip address of the server from
    which the files must be read or written to if
    clmgmtLicenseActionTransferProtocol is not none(1) or
    local(2).
```

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

```
    The format of this address depends on the value of the
    clmgmtLicenseServerAddressType object";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
```

```
leaf clmgmtLicenseServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the
remote user name for accessing
    files via ftp, rcp, sftp or scp protocols. This object must
    be set when the clmgmtLicenseActionTransferProtocol is
    ftp(4), rcp(5), scp(7) or sftp(8). If
    clmgmtLicenseActionTransferProtocol is rcp(5), the remote
    username is sent as the server username in an rcp command
    request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}
```

```
leaf clmgmtLicenseServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
    or sftp(8). Reading it returns
a zero-length string for
    security reasons.";
```

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

```

```

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

```

```

leaf clmgmtLicenseStore {
  type uint32;
  description
    "This object represents the clmgmtLicenseStoreIndex
of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

```

```

leaf clmgmtLicenseActionLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
  description
    "This object indicates the the license index of the license
    that is the subject of this action. This is used for
    identifying a license for performing actions specific to
    that license. This object need to be set only if
    clmgmtLicenseAction is set to clear(4). The value of this
    object is same as the clmgmtLicenseIndex
object in
    clmgmtLicenseInfoEntry for license that is subject of this
    action.";

```



```

smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

```

```

leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

```

```

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates

```

the file where all the licenses in

the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";  
}
```

leaf clmgmtLicenseStopOnFailure {

type boolean;

description

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action.";

```
smiv2:defval "false";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";  
}
```

leaf clmgmtLicenseAction {

type enumeration {

enum "noOp" {

value "1";

}

enum "install" {

value "2";

}

enum "clear" {

value "3";

}

enum "processPermissionTicket" {

value "4";

}

enum "regenerateLastRehostTicket" {

value "5";

}

enum "backup" {

value "6";

}

enum "generateEULA" {

value "7";

}

}

description

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.

```
processPermissionTicket(4)
Processes thee permission
                                ticket and generates and
                                exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the
                                last generated rehost
                                ticket.

backup(6)                      Backs up all the licenses
                                installed currently onto a
                                backup store.

generateEULA(7)               Checks whether the licenses
                                in the license file need EULA
                                acceptance and uploads the
                                needed EULA contents to a file.";

smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}
```

```
leaf clmgmtLicenseActionState {
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
description
    "This object indicates the state of this license action.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}
```

```
leaf clmgmtLicenseJobQPosition {
type uint32;
description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
```

reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to

defer its license back up action to a later time. This

```
object will return a value of 0 if the action is not in
pending(2) state.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}
```

```
leaf clmgmtLicenseActionFailCause {
type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
description
"This object indicates the reason for this license action
failure. The value of this object is valid only when
clmgmtLicenseActionState is failed(6).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}
```

```
leaf clmgmtLicenseActionStorageType {
type snmpv2-tc:StorageType;
description
"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row.";
smiv2:defval "volatile";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}
```

```
leaf clmgmtLicenseActionRowStatus {
type snmpv2-tc:RowStatus;
description
"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtLicenseConfigCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row. It is recommended that the management application
should delete entries in this table after reading
the result. In order to prevent old entries from
clogging the table, entries will be aged out, but an
entry will never be deleted within 5 minutes of
```

```

        completion";

smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

leaf clmgmtLicenseAcceptEULA {
    type boolean;
    description
        "This object indicates whether the End User License Agreement
        needed for installing the licenses is accepted.

        true(1) - EULA is read and accepted
        false(2) - EULA is not accepted

        Management application should set this object to true(1) when
        installing licenses that need EULA acceptance.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

leaf clmgmtLicenseEULAFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file where all the End User License
        Agreements (EULAs) need to be exported to. This object need to
        be set only if clmgmtLicenseAction is set to generateEULA(7) and
        the management application must set the value of this object to
        valid value before invoking action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}

container clmgmtLicenseActionResultTable {
    description
        "This table contains results of license action if the
        license action involves multiple licenses. Entries in this
        table are not created for actions where there is
        only license that is subject of the action. For
        example, if there are 3 licenses in a license file
        when executing license install action, 3 entries will
        be created in this table, one for each license.";

```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";
```

```
list clmgmtLicenseActionResultEntry {  
  key "clmgmtLicenseActionIndex clmgmtLicenseNumber";  
  description  
    "An entry in clmgmtLicenseActionResultTable. Each entry  
    contains result of the action for a single license.  
    These entries are created immediately after action  
    execution when the action involves multiple licenses.  
    These entries get automatically deleted when the  
    corresponding entry in clmgmtLicenseActionTable  
    is deleted.";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";
```

```
leaf clmgmtLicenseActionIndex {  
  type leafref {  
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-  
mib:clmgmtLicenseActionIndex";  
  }  
}
```

```
leaf clmgmtLicenseNumber {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object indicates the sequence number of this license  
    in the list of licenses on which the action  
is executed.
```

```
    For example, if there are 3 licenses in a license file  
    when executing license install action, this object will  
    have values 1, 2 and 3 respectively as ordered in the  
    license file.";
```

```
smiv2:max-access "not-accessible";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";  
}
```

```
leaf clmgmtLicenseIndivActionState {  
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;  
  description  
    "This object indicates the state of action on this  
    individual license.";
```

```
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";  
}
```

```
leaf clmgmtLicenseIndivActionFailCause {
```

```

type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
description
  "This object indicates the reason for action failure on this
  individual license";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
description
  "This table contains information about all the license
  stores allocated on the device.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

list clmgmtLicenseStoreInfoEntry {
key "entPhysicalIndex clmgmtLicenseStoreIndex";
description
  "An entry in clmgmtLicenseStoreInfoTable. Each entry
  contains information about a license store allocated
  on the device";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";

leaf entPhysicalIndex {
type leafref {
path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
}
}

leaf clmgmtLicenseStoreIndex {
type uint32 {
range "1..4294967295";
}
description
  "This object uniquely identifies a license store within
  the device.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

leaf clmgmtLicenseStoreName {
type snmp-framework:SnmpAdminString {
length "0..255";
}
description
  "This object indicates the name of the license store

```

```

        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt';
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
    }

    leaf clmgmtLicenseStoreTotalSize {
        type uint32;
        units "bytes";
        description
            "This object indicates the total number of bytes that are
            allocated to the license store.";
        smiv2:max-access "read-only";
        smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
    }

    leaf clmgmtLicenseStoreSizeRemaining {
        type uint32;
        units "bytes";
        description
            "This object indicates the number of bytes still remaining
            to be used for new license installations in the license
            store.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
    }
}

container clmgmtLicenseDeviceInfoTable {
    description
        "This table contains objects that provide licensing related
        information at the device level. Entries will exist
        only for entities that support licensing. For example,
        if it is a stand alone device and supports licensing,
        then there will be only one entry in this table. If
        it is stackable switch then there will be multiple
        entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

    list
    clmgmtLicenseDeviceInfoEntry {
        key "entPhysicalIndex";
        description

```



```

    "An entry in clmgmtLicenseDeviceInfoTable. Each entry
    contains device level licensing information for a device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtDefaultLicenseStore {
        type uint32 {
            range "1..4294967295";
        }
        description
        "This object indicates the clmgmtLicenseStoreIndex of
        default store in the device. There will be only one
        default license store per device. If no license store
        is specified during license install, this default license
        store will be used.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
    }
}

container clmgmtLicenseInfoTable {
    description
    "This table contains information about all the licenses
    installed on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

    list clmgmtLicenseInfoEntry {
        key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
        description
        "An entry in clmgmtLicenseInfoTable. Each entry contains
        information about a license installed on the device. This
        entry gets created when a license is installed successfully.
        Management application can not create these entries directly, but
        will do so indirectly by executing license install action.
        Some of these entries may already exist that correspond to
        demo licenses even before management application installs any
        licenses.";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

        leaf entPhysicalIndex {
            type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}

```

```

leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}

```

```

leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version

```

```

are: '1.0', '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
  description
    "This object identifies type of license. Licenses may have
    validity period defined in terms of time duration that the
    license is valid for or it may be defined in terms of actual
    calendar dates. Subscription licenses are licenses that have
    validity period
    defined in terms of calendar dates.

```

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are not locked and it can be obtained
only once for an UDI. They are valid

based on calendar days. These licenses
have a start date and an end date
associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of

the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

```
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";  
}
```

```
leaf clmgmtLicenseCounted {  
  type boolean;  
  description  
    "This object indicates whether the license is counted  
    license.  
    true(1) - counted license  
    false(2) - uncounted license";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";  
}
```

```
leaf clmgmtLicenseValidityPeriod {
```

```

    type uint32;
    units "seconds";
    description
        "This object indicates the time period the license is valid for.
        This object is applicable only if clmgmtLicenseType is demo(1),
        or extension(2) or gracePeriod(3) or evalRightToUse(8). The
        object will return
0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

```

```

leaf clmgmtLicenseValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before the
        license expires or transitions to rightToUse(9) license. This
        object is applicable only if clmgmtLicenseType is demo(1), or
        extension(2) or gracePeriod(3) or evalRightToUse(8). The object
        will contain 0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}

```

```

leaf clmgmtLicenseExpiredPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the elapsed time period since the license
        expired. This object is applicable only if clmgmtLicenseType
        is demo(1),
or extension(2) or gracePeriod(3). Also, this
        value of this object will be valid only after the license
        expires. The object will return 0 for other license types
        or before the license expiry.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
    type uint32;
    description
        "This object indicates the maximum number of entities that
        can use this license. This object is applicable only if
        clmgmtLicenseCounted is true(1). The entity that is being
        counted can be anything and it depends on the licensable
        feature.";
}

```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

```

```

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

```

```

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

```

leaf clmgmtLicenseStatus {
  type enumeration {
    enum "inactive" {
      value "1";
    }
    enum "notInUse" {
      value "2";
    }
    enum "inUse" {

```

```

    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

```

inactive(1)      - license is installed, but
                  not active.
notInUse(2)      - license is installed and
                  available for use.
inUse(3)         - the license is being used (by
                  a feature).
expiredInUse(4)
- license is expired but still
                  being held by the feature.
expiredNotInUse(5) - license is expired and not being
                  held by any feature.
usageCountConsumed(6) - number of entities using this
                  licenses has reached the allowed
                  limit, no new entities are allowed
                  to use this license.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```

leaf clmgmtLicenseStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the start date for a subscription
    license. It is optional for subscription linceses to have a
    start date associated with them, they may only have an end
    date associated with them. This object may be applicable only

```

```

when clmgmtLicenseType is paidSubscription(5),
  evaluationSubscription(6) or extensionSubscription (7).
  The object will contain an octet string of length 0 when it is
  not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";

```

```

}

leaf clmgmtLicenseEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the end date for a subscription license.
    This object is applicable only when clmgmtLicenseType is
    paidSubscription(5), evaluationSubscription(6) or
    extensionSubscription (7). The object will contain an octet
    string of length 0 when it is not applicable.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
  type uint32;
  units "seconds";
  description
    "This
object indicates the time period used for the
    Right to use (RTU) licenses. This object is applicable for all
    RTU licenses.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
}
}
}

container clmgmtLicensableFeatureTable {
  description
    "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

  list clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex";
    description
      "An entry
in clmgmtLicensableFeatureTable. Each entry represents
      a licensable feature.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";
  }
}

```



```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtFeatureIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a licensable feature in
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
}

```

```

leaf clmgmtFeatureName {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'";
  smiv2:max-access
"read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
}

```

```

leaf clmgmtFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..32";
  }
  description
    "This object indicates the version of the licensable
    feature in the device. Examples of feature versions
    are: '1.0' or '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before

```

the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if
other types of license is used
or if the feature does not use any license. If the
feature is using multiple licenses, this period will
represent the cumulative period remaining from all the
licenses used by this feature.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

```
leaf clmgmtFeatureWhatIsCounted {  
  type snmp-framework:SnmpAdminString {  
    length "0..128";  
  }  
  description  
  "This object represents the entity that is being counted  
  by this feature. Examples of entities are IP Phones, number  
  of sessions etc. This object is only applicable for  
  features that use counting licenses. For other features,  
  this object will return empty string.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";  
}
```

```
leaf clmgmtFeatureStartDate {  
  
  type snmpv2-tc:DateAndTime;  
  description  
  "This object indicates the license start date of the feature.  
  This object is applicable if at least one of the licenses used  
  for this feature has a valid start date. The start date will  
  be the earliest of the valid start dates of all the licenses  
  used for this feature. If none of the licenses used for this  
  feature have a valid start date then this object will contain an  
  octet string of length 0.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";  
}
```

```
leaf clmgmtFeatureEndDate {  
  type snmpv2-tc:DateAndTime;  
  description  
  "This object indicates the license end date of the feature.
```

This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
  type uint32;
  units "seconds";
  description
    "This object indicates the license period used for the feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}

```

```

container clmgmtDevCredExportActionTable {
  description
    "A table for triggering device credentials export action.
    Management application must create this entry to trigger the
    export of device credentials from the device to a file.

```

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

list clmgmtDevCredExportActionEntry {
  key "clmgmtDevCredExportActionIndex";
  description
    "An entry for each device credential export action that
    is being executed or was executed recently. The management
    application triggers the export by creating an entry in this
    table. This can be done in the following 2 methods

```

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values

are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtDevCredExportActionStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtDevCredExportActionStatus` to `destroy(6)` when `clmgtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying

`clmgtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtDevCredCommandFailCause`.

Entry can be deleted except when `clmgtLicenseAction` is set to `inProgress(3)`. All entries in this table are volatile and are cleared on agent reset.";

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";`

```
leaf clmgtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
}
```

description

"This object uniquely identifies a row in `clmgtDevCredExportActionTable`. The management application chooses this value by reading `clmgtNextFreeDevCredExportActionIndex` while creating an entry in this table.

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of `clmgtNextFreeDevCredExportActionIndex` again and retry with the new value for this object.";

`smiv2:max-access "not-accessible";`

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

leaf clmgmtDevCredEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    for which the device credentials are being retrieved. This
    object is mainly used in devices where one device is acting
    as a master and rest of the devices as slaves. The master
    device is responsible for SNMP communication with the
    manager. Examples include stackable switches, devices with
    router processor and line cards.

    Note: This object need not be set if it is a stand alone
    device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

leaf clmgmtDevCredTransferProtocol {
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
  description
    "This object indicates the transfer protocol to be used when
    copying files as specified in the following objects.
    1. clmgmtDevCredExportFile
    .";
  smiv2:defval "none";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtDevCredServerAddress object.
    This must be set when clmgmtDevCredTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description

```

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType object";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";  
}
```

```
leaf clmgmtDevCredServerUsername {  
  type snmp-framework:SnmpAdminString {  
    length "0..96";  
  }  
}
```

description

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";  
}
```

```
leaf clmgmtDevCredServerPassword {  
  type snmp-framework:SnmpAdminString {  
    length "0..96";  
  }  
}
```

description

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";  
}
```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

Command	Remarks

noOp(1)	No operation will be performed.
getDeviceCredentials(2)	Exports device credentials";
smiv2:defval "noOp";	
smiv2:max-access "read-write";	
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";	
}	

```

leaf clmgmtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {

```

```

        value "1";
    }
    enum "unknownError" {
        value "2";
    }
    enum "transferProtocolNotSupported"
{
        value "3";
    }
    enum "fileServerNotReachable" {
        value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
        value "5";
    }
    enum "invalidFile" {
        value "6";
    }
}
description
"This object indicates the the reason for device
credentials export operation failure.

```

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description


```

    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
    smiv2:defval "volatile";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
}

```

```

leaf clmgmtDevCredRowStatus {
    type snmpv2-tc:RowStatus;
    description
        "This object indicates the the status of this table entry.
        Once the entry status is set to active(1), the associated
        entry cannot be modified until the action completes
        (clmgmtDevCredCommandStatus is set to a value
        other than inProgress(3)). Once the action completes
        the only operation possible after this is to delete
        the row.

```

```

        clmgmtDevCredExportFile is a mandatory object to be
        set when creating this entry.";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
}

```

```

}
}
}
}

```

```

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
        management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

```

```

    container object-1 {

```

```

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
                mib:entPhysicalIndex";
            }
        }
    }
}

```

```

    leaf clmgmtFeatureIndex {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks

```

```

    ahead, third notification
when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }
}

```

```

    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }

  notification clmgmtLicenseUsageCountExceeded {
    description
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached clmgmtLicenseMaxUsageCount for a counting license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref
  {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}

}

```

```

container object-3 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```
mib:clmgmtLicenseMaxUsageCount";
```

```
}
```

```
}
```

```
}
```

```
container object-4 {
```

```
leaf entPhysicalIndex {
```

```
type leafref {
```

```
path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-  
mib:entPhysicalIndex";
```

```
}
```

```
}
```

```
leaf clmgmtFeatureIndex {
```

```
type leafref {
```

```
path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-  
mib:clmgmtFeatureIndex";
```

```
}
```

```
}
```

```
leaf clmgmtFeatureWhatIsCounted {
```

```
type leafref {
```

```
path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-  
mib:clmgmtFeatureWhatIsCounted";
```

```
}
```

```
}
```

```
}
```

```
container object-5 {
```

```
leaf entPhysicalIndex {
```

```
type leafref {
```

```
path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-  
mib:entPhysicalIndex";
```

```
}
```

```
}
```

```
leaf clmgmtLicenseStoreUsed {
```

```
type leafref {
```

```
path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-  
mib:clmgmtLicenseStoreUsed";
```

```
}
```

```
}
```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseUsageCountAboutToExceed
  {
    description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtLicenseStoreUsed {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
      }

      leaf clmgmtLicenseIndex {
        type leafref {

```



```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

```

```

    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseUsageCountRemaining {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
  }
}

container object-5 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref
  {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

  leaf clmgmtFeatureWhatIsCounted {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
    }
  }
}

```

```

}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

notification clmgmtLicenseInstalled {
    description
        "This notification is sent when a license is installed
        successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";

    }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type
    leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

```

```

    }
  }

  container
  object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseCleared {
    description
    "This notification is sent when a license is cleared
    successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```



```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

```

```

    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
}

```

```

container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtLicenseStoreUsed {

      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```

mib:clmgmtLicenseType";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```

```

    }
  }
}

```

```

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
    to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

```

```

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }

```

```

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
}

```

```

  container object-2 {

    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}
}

notification clmgmtLicenseSubscriptionExpiryWarning {
    description
        "This notification is sent when a subscription license of a
        feature is about to expire. This notification will be sent as
        per the following
    schedule:
        Once a week for the last eight weeks
        Once a day for the last week
        Once a hour for the last day";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }
    }
}

```



```

    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf

```

```

clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureEndDate {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
    }
}

notification clmgmtLicenseSubscriptionExtExpiryWarning {
    description
        "This notification is sent when the subscription license end
        date of a feature is reached but extension period is left. This
        notification will be sent once a day after the license end date
        is reached.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```

```

    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

leaf clmgmtFeatureEndDate {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
  }
}

```

```

notification clmgmtLicenseSubscriptionExpired {
  description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }

```

```

container object-2 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

```

```

mib:entPhysicalIndex";
    }
}

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

```

```

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
        }
    }
}

notification clmgmtLicenseEvalRTUTransition {
    description
        "This notification is sent, when a feature license transitions
        from a evaluation to a
        Right to use (RTU) license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

    container object-1 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```



```

    }
  }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}

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```

```
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// See the License for the specific language governing permissions and
// limitations under the License.
-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****
```

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
    FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue
    FROM SNMPv2-TC
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex
    FROM ENTITY-MIB
ciscoMgmt
    FROM CISCO-SMI;
```

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

```
LAST-UPDATED "200710160000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO
```

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive
San Jose, CA 95134
USA
Tel: +1 800 553 -NETS
E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level. This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.

- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the image level.

If the device is running at advipservices image level, then the boot image level will

be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the list of license names.

If multiple licenses

are present then this string will contain all
the licenses separated by the ',' character.

If the license required to run a device at
advipservices image level is advipservices and
advsecurity, then the license name list will be
'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of
current and next boot image level. This table contains
entries for each software module running in an image
loaded in the device. The software module is identified by
cilmModuleName and the device is identified by
entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the
list of objects that define the configuration of next
boot level. The following information is specified by
the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.

- License store index for the next boot license.
- License index of the next boot license."

```

INDEX      {
            entPhysicalIndex,
            cilmModuleName
        }
 ::= { cilmBootImageLevelTable 1 }

```

```

CilmBootImageLevelEntry ::= SEQUENCE {
    cilmModuleName          SnmpAdminString,
    cilmCurrentImageLevel
        BootImageLevel,
    cilmConfiguredBootImageLevel BootImageLevel,
    cilmNextBootImageLevel   BootImageLevel,
    cilmCurrentLicenseStoreIndex Unsigned32,
    cilmCurrentLicenseIndex  Unsigned32,
    cilmNextBootLicenseStoreIndex Unsigned32,
    cilmNextBootLicenseIndex Unsigned32
}

```

cilmModuleName OBJECT-TYPE

```

SYNTAX      SnmpAdminString
MAX-ACCESS  not-accessible
STATUS      current

```

DESCRIPTION

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality.

For example, in a wireless image there can be two modules

- a base image module and a wireless module."

```

 ::= { cilmBootImageLevelEntry 1 }

```

cilmCurrentImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS  read-only
STATUS

```

current

DESCRIPTION

"This object indicates the current image level that the module is running."

```

 ::= { cilmBootImageLevelEntry 2 }

```

cilmConfiguredBootImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS  read-write
STATUS      current

```

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by `cilmNextBootImageLevel` which is determined based on the license availability."

::= { `cilmBootImageLevelEntry` 3 }

`cilmNextBootImageLevel` OBJECT-TYPE

SYNTAX `BootImageLevel`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot

image level is determined based

on the availability of required license."

::= { `cilmBootImageLevelEntry` 4 }

`cilmCurrentLicenseStoreIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as `clmgmtLicenseStoreIndex` object and uniquely identifies an entry in `clmgmtLicenseStoreInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { `cilmBootImageLevelEntry` 5 }

`cilmCurrentLicenseIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as `clmgmtLicenseIndex`

and

uniquely identifies an entry in `clmgmtLicenseInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is

installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
 entPhysicalIndex,
 cilmModuleName,
 cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

 cilmImageLicenseMapIndex Unsigned32,
 cilmImageLicenseImageLevel BootImageLevel,
 cilmImageLicenseName LicenseNameList,
 cilmImageLicensePriority Unsigned32

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running
index used to identify an entry
of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absense of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specify whether or not a notification should be generated on the detection of change in next boot image level.

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered."

REFERENCE

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document."

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
}

STATUS current

DESCRIPTION

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively."

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }

```

cilmModuleCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "Compliance statement for Cisco Image level license mgmt MIB."
    MODULE      -- this module
    MANDATORY-GROUPS {
        cilmAdminGroup,
        cilmNotifGroup
    }

    GROUP      cilmOperGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license are supported."
    ::= { cilmModuleCompliances 1 }

```

-- Units of Conformance

```

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,
        cilmImageLevelChangedNotif
    }

    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

```

```

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }

    STATUS      current
    DESCRIPTION
        "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 2 }

```

```

cilmNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS { cilmBootImageLevelChanged }
  STATUS      current
  DESCRIPTION
    "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
  OBJECT-TYPE,
  MODULE-IDENTITY,
  Unsigned32,
  NOTIFICATION-TYPE
    FROM SNMPv2-SMI
  MODULE-COMPLIANCE,
  OBJECT-GROUP,
  NOTIFICATION-GROUP
    FROM SNMPv2-CONF
  TEXTUAL-CONVENTION,
  TruthValue,
  RowStatus,
  StorageType,
  DateAndTime
    FROM SNMPv2-TC
  SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB
  entPhysicalIndex,
  PhysicalIndexOrZero
    FROM ENTITY-MIB
  InetAddressType,
  InetAddress
    FROM INET-ADDRESS-MIB
  ciscoMgmt
    FROM CISCO-SMI;

```

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a
device. It comprises of product ID, version ID and serial
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device
identifiers in the system. For example, the license
can be locked to the UDI value of one of the devices
in the system. Locking a license to an UDI guarantees
that the license will not be moved to a device with a
different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device
identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time
and they expire after that. This period is the usage
period of a license and it is not based on real time
clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal.

These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license.

These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on

the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable

part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

- To install a license, the management application
1. Retrieves device credentials of the device.
 2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
 3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE

& EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be

- installed
- 2. Specifies the EULA file path where EULA need to be exported to
- 3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
 - evalRightToUse
 - rightToUse
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeaturePeriodUsed
- o Added the following notifications
 - clmgmtLicenseEvalRTUTransitionWarning
 - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
 - clmgmtLicenseRTUGroup
 - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following
 - objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX INTEGER {
 none(1),
 local(2),
 tftp(3),
 ftp(4),
 rcp(5),
 http(6),
 scp(7),
 sftp(8)
 }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

- none(1) - action is not yet scheduled to be executed.

- pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.

- inProgress(3) - action execution has started and is in progress.

- successful(4) - action has completed successfully.

- partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

SYNTAX INTEGER {

 none(1),

 pending(2),

 inProgress(3),

 successful(4),

 partiallySuccessful(5),

 failed(6)

}

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

invalidLicenseFilePath(6) - The license file path is not accessible.

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted

license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX INTEGER {

 none(1),

 generalFailure(2),

 transferProtocolNotSupported(3),

 fileServerNotReachable(4),

 unrecognizedEntPhysicalIndex(5),

 invalidLicenseFilePath(6),

 invalidLicenseFile(7),

 invalidLicenseLine(8),

 licenseAlreadyExists(9),

 licenseNotValidForDevice(10),

 invalidLicenseCount(11),

 invalidLicensePeriod(12),

 licenseInUse(13),

 invalidLicenseStore(14),

 licenseStorageFull(15),


```

        invalidPermissionTicketFile(16),
        invalidPermissionTicket(17),
        invalidRehostTicketFile(18),
        invalidRehostTicket(19),
        invalidLicenseBackupFile(20),
        licenseClearInProgress(21),
        invalidLicenseEULAFile(22)
    }

```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of `clmgmtLicenseAction` for more information on what these actions do on the device. Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

```
::= { clmgmtLicenseConfiguration 2 }
```

`clmgmtLicenseActionEntry` OBJECT-TYPE

SYNTAX `ClmgmtLicenseActionEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying

clmgmtLicenseActionState. If the action is still in pending(2) or in inProgress(3) state, the management application need to check back again after few seconds. Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgmtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgmtLicenseActionResultTable.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseStore
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAcceptEULA
- j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername

- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

INDEX { clmgmtLicenseActionIndex }
 ::= { clmgmtLicenseActionTable 1 }

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType InetAddressType,
    clmgmtLicenseServerAddress     InetAddress,
    clmgmtLicenseServerUsername     SnmpAdminString,
    clmgmtLicenseServerPassword     SnmpAdminString,
    clmgmtLicenseFile               SnmpAdminString,
    clmgmtLicenseStore              Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile     SnmpAdminString,
    clmgmtLicenseBackupFile            SnmpAdminString,
    clmgmtLicenseStopOnFailure         TruthValue,
    clmgmtLicenseAction                INTEGER,
    clmgmtLicenseActionState           ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition          Unsigned32,
    clmgmtLicenseActionFailCause       ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType     StorageType,
    clmgmtLicenseActionRowStatus       RowStatus,
    clmgmtLicenseAcceptEULA            TruthValue,
    clmgmtLicenseEULAFile              SnmpAdminString
}
```

clmgmtLicenseActionIndex OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files
required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object.

This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from

an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
install(2),
clear(3),
processPermissionTicket(4),
regenerateLastRehostTicket(5),
backup(6),
generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission

ticket and generates and
exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the
last generated rehost
ticket.

backup(6) Backs up all the licenses
installed currently onto a
backup store.

generateEULA(7)
Checks whether the licenses
in the license file need EULA
acceptance and uploads the
needed EULA contents to a file."

DEFVAL { noOp }
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action
in the license action job queue that is maintained
internally. Only actions in pending(2) state will
be put in the queue until they are executed. By
reading this object, the management

application can make

intelligent decision on whether to execute another
action that it is planning on. For example, if there
is already a license clear action in the queue in
pending(2) state, management application can choose to
defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of completion"

::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted."

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

Management application should set this object to true(1) when installing licenses that need EULA acceptance."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license."

These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

```
INDEX      {
            clmgmtLicenseActionIndex,
            clmgmtLicenseNumber
          }
::= { clmgmtLicenseActionResultTable 1 }
```

```
ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber      Unsigned32,
    clmgmtLicenseIndivActionState ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}
```

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."

```
::= { clmgmtLicenseActionResultEntry 1 }
```

clmgmtLicenseIndivActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of action on this individual license."

```
::= { clmgmtLicenseActionResultEntry 2 }
```

clmgmtLicenseIndivActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for action failure on this individual license"

```
::= { clmgmtLicenseActionResultEntry 3 }
```

-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about all the license stores allocated on the device."

::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseStoreInfoTable. Each entry contains information about a license store allocated on the device"

INDEX {
entPhysicalIndex,
clmgmtLicenseStoreIndex
}

::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {

clmgmtLicenseStoreIndex

Unsigned32,

clmgmtLicenseStoreName SnmpAdminString,

clmgmtLicenseStoreTotalSize Unsigned32,

clmgmtLicenseStoreSizeRemaining Unsigned32

}

clmgmtLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license store within the device."

::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the license store within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic_store_1.txt' or 'flash:lic_store_2.txt'"

```
::= { clmgmtLicenseStoreInfoEntry  
2 }
```

clmgmtLicenseStoreTotalSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of bytes that are allocated to the license store."

```
::= { clmgmtLicenseStoreInfoEntry 3 }
```

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of bytes still remaining to be used for new license installations in the license store."

```
::= { clmgmtLicenseStoreInfoEntry 4 }
```

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information

at the device level. Entries will exist

only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."

```
::= { clmgmtLicenseInformation 2 }
```


clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseDeviceInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseDeviceInfoTable. Each entry
 contains device level licensing information for a device."
 INDEX { entPhysicalIndex }
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
 clmgmtDefaultLicenseStore Unsigned32
 }

clmgmtDefaultLicenseStore OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS read-only
 STATUS
 current
 DESCRIPTION
 "This object indicates the clmgmtLicenseStoreIndex of
 default store in the device. There will be only one
 default license store per device. If no license store
 is specified during license install, this default license
 store will be used."
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains information about all the licenses
 installed on the device."
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseInfoTable. Each entry contains
 information about a license installed on the device. This
 entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

```
INDEX      {
    entPhysicalIndex,
    clmgmtLicenseStoreUsed,
    clmgmtLicenseIndex
}
::= { clmgmtLicenseInfoTable 1 }
```

```
ClmgmtLicenseInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreUsed      Unsigned32,
    clmgmtLicenseIndex          ClmgmtLicenseIndex,
    clmgmtLicenseFeatureName     SnmpAdminString,
    clmgmtLicenseFeatureVersion  SnmpAdminString,
    clmgmtLicenseType            INTEGER,
    clmgmtLicenseCounted         TruthValue,
    clmgmtLicenseValidityPeriod  Unsigned32,
    clmgmtLicenseValidityPeriodRemaining Unsigned32,
    clmgmtLicenseExpiredPeriod   Unsigned32,
    clmgmtLicenseMaxUsageCount   Unsigned32,
    clmgmtLicenseUsageCountRemaining Unsigned32,
    clmgmtLicenseEULAStatus      TruthValue,
    clmgmtLicenseComments        SnmpAdminString,
    clmgmtLicenseStatus          INTEGER,
    clmgmtLicenseStartDate       DateAndTime,
    clmgmtLicenseEndDate         DateAndTime,
    clmgmtLicensePeriodUsed      Unsigned32
}
```

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."

```
::= { clmgmtLicenseInfoEntry
1 }
```

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within the device."

::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."

::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'"

::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {
 demo(1),
 extension(2),
 gracePeriod(3),
 permanent(4),
 paidSubscription(5),
 evaluationSubscription(6),
 extensionSubscription(7),
 evalRightToUse(8),
 rightToUse(9),
 permanentRightToUse(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates."

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are node locked and it can be obtained
only once for an UDI. They are valid
based on calendar days. These licenses
have a start date and an end date

associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of the product.
This is a Right To Use license which is not in
evaluation mode for a limited time."

::=

{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the license is counted
license.

true(1) - counted license

false(2) - uncounted license"

::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period the license is valid for.

This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will return 0 for other license types."

::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that

can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4) - license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object
indicates the start date for a subscription
license. It is optional for subscription licenses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.
This object is applicable only when clmgmtLicenseType is
paidSubscription(5), evaluationSubscription(6) or
extensionSubscription (7). The object will contain an octet
string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the
Right to use (RTU) licenses. This object is applicable for all
RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the
image. All the licensable features will have an entry each
in this table irrespective of whether they are using any
licenses currently. Entries in this table are created by
the agent one for each licensable feature in the image.
These entries remain in the table permanently and can not

be deleted. Management application can not create or delete
entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents
a licensable feature."

```
INDEX {
    entPhysicalIndex,
    clmgmtFeatureIndex
}
```

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

clmgmtFeatureIndex Unsigned32,

clmgmtFeatureName SnmpAdminString,


```

    clmgmtFeatureVersion          SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted     SnmpAdminString,
    clmgmtFeatureStartDate         DateAndTime,
    clmgmtFeatureEndDate           DateAndTime,
    clmgmtFeaturePeriodUsed        Unsigned32
}

```

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by

this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE
(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this

feature have a valid end date then this object will contain an
octet string of length 0."
::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for
clmgmtDevCredExportActionIndex that can be used to create
an entry in clmgmtDevCredExportActionTable. The management
application should read this object first and then use this
as the value for clmgmtDevCredExportActionIndex to avoid
collisions when creating entries in
clmgmtDevCredExportActionTable. Following this approach does
not guarantee collision free row creation, but will reduce
the probability. The collision will happen if two
management applications read this object at the same time and
attempt to create an entry with this value at the same time.
In this case, the management application whose request is
processed after the first request

will get an error and the

process of reading this object and entry creation needs to be
repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for

failure can
be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set
to inProgress(3). All entries in this table are volatile
and are cleared on agent reset."

INDEX { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {
clmgmtDevCredExportActionIndex Unsigned32,
clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,
clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,
clmgmtDevCredServerAddressType InetAddressType,
clmgmtDevCredServerAddress InetAddress,
clmgmtDevCredServerUsername SnmpAdminString,
clmgmtDevCredServerPassword SnmpAdminString,
clmgmtDevCredExportFile SnmpAdminString,
clmgmtDevCredCommand INTEGER,
clmgmtDevCredCommandState ClmgmtLicenseActionState,
clmgmtDevCredCommandFailCause INTEGER,
clmgmtDevCredStorageType
StorageType,
clmgmtDevCredRowStatus RowStatus
}

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtDevCredExportActionTable. The management application
chooses this value by reading
clmgmtNextFreeDevCredExportActionIndex while creating an
entry in this table. If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not

allowed.

The format of this address depends on the value of the
clmgmtDevCredServerAddressType
object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying
a file to/from an ftp/sftp/scp server.

This object must be set when the
clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

```
SYNTAX      INTEGER {
                noOp(1),
                getDeviceCredentials(2)
            }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

Command	Remarks

noOp(1)	No operation will be performed.

getDeviceCredentials(2)	Exports device credentials"
-------------------------	-----------------------------

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

```
SYNTAX      ClmgmtLicenseActionState
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

```
SYNTAX      INTEGER {
                none(1),
                unknownError(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidFile(6)
            }
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the the reason for device credentials export operation failure.

The value of this object is valid only when clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
 If the action is completed and the
 action is successful, then also
 none(1) is returned to indicate that
 there are no errors.
 unknownError(2) - reason for failure is unknown,
 operation failed, no operation is
 performed
 transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
 given is not supported.
 fileServerNotReachable(4) - file server is not reachable.
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
 valid
 invalidFile(6) - The target file specified is not valid."
 ::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION

"This object indicates the storage type for this conceptual
 row. Conceptual rows having the value 'permanent' need not
 allow write-access to any columnar objects in the row."

DEFVAL { volatile }
 ::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION

"This object indicates the the status of this table entry.
 Once the entry status is set to active(1), the associated
 entry cannot be modified until the action completes
 (clmgmtDevCredCommandStatus is set to a value
 other than

inProgress(3)). Once the action completes
 the only operation possible after this is to delete
 the row.

clmgmtDevCredExportFile is a mandatory object to be
 set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

clmgmtLicenseNotEnforced"

```

DEFVAL      { true }
::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS      current
DESCRIPTION
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the management
    application."
::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureValidityPeriodRemaining
            }
STATUS      current
DESCRIPTION
    "This notification is sent when a license is about to

    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry."
::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseMaxUsageCount,
                clmgmtFeatureWhatIsCounted,
                clmgmtLicenseComments
            }
STATUS      current
DESCRIPTION
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license."

```

```
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtFeatureWhatIsCounted,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached and after that the device will not allow new entities to make use of this license."

```
::= { ciscoLicenseMgmtMIBNotifs 4 }
```

clmgmtLicenseInstalled NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when a license is installed successfully."

```
::= { ciscoLicenseMgmtMIBNotifs 5 }
```

clmgmtLicenseCleared NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

"This notification is sent when a license is cleared successfully."

```
::= { ciscoLicenseMgmtMIBNotifs 6 }
```

clmgmtLicenseRevoked NOTIFICATION-TYPE

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseComments
}

STATUS
 current

DESCRIPTION
 "This notification is sent when a license is revoked
 successfully."
::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
}

STATUS current

DESCRIPTION
 "This notification is sent when a user accepts End User
 License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
}

STATUS current

DESCRIPTION
 "This notification is sent when a license does not
 exist for a feature, but the feature is a mandatory
 feature and it should run. This notification will be
 sent out periodically to indicate that there is no

license installed for this feature and it needs to
 be done as soon as possible."
::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification is sent when a subscription license of a feature is about to expire. This notification will be sent as per the following schedule:

Once a week for the last eight weeks

Once a day for the last week

Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license of a feature completely expires. It will be sent once a day after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second

```

notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS       current
DESCRIPTION
    "This notification is sent, when a feature license transitions
    from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

```

```

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }

```

```

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }

```

```

ciscoLicenseMgmtCompliance
MODULE-COMPLIANCE
STATUS       deprecated
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE       -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

```

```

GROUP        clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }

```

```

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE

```

```

STATUS      current
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."

GROUP      clmgmtLicenseSubscriptionGroup
DESCRIPTION
    "This object group is mandatory for all devices
that
    support subscription licensing."

GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support subscription licensing."

GROUP      clmgmtLicenseRTUGroup
DESCRIPTION
    "This object group is mandatory for all devices that
    support Right to Use (RTU) licensing."

GROUP      clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeLicenseActionIndex,

```



```

        clmgmtLicenseActionEntPhysicalIndex,
        clmgmtLicenseActionTransferProtocol,
        clmgmtLicenseServerAddressType,
        clmgmtLicenseServerAddress,
        clmgmtLicenseServerUsername,
        clmgmtLicenseServerPassword,
        clmgmtLicenseFile,
        clmgmtLicenseStore,
        clmgmtLicenseActionLicenseIndex,
        clmgmtLicensePermissionTicketFile,
        clmgmtLicenseRehostTicketFile,
        clmgmtLicenseBackupFile,
        clmgmtLicenseStopOnFailure,
        clmgmtLicenseAction,
        clmgmtLicenseActionState,
        clmgmtLicenseJobQPosition,
        clmgmtLicenseActionFailCause,
        clmgmtLicenseActionStorageType,
        clmgmtLicenseActionRowStatus,
        clmgmtLicenseIndivActionState,
        clmgmtLicenseIndivActionFailCause,
        clmgmtLicenseAcceptEULA,
        clmgmtLicenseEULAFile
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects for performing license deployment
        i.e., license installation, clear and revoke"
    ::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
    OBJECTS      {
        clmgmtLicenseStoreName,
        clmgmtLicenseStoreTotalSize,
        clmgmtLicenseStoreSizeRemaining
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about
        license storages in the device."
    ::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
    OBJECTS      { clmgmtDefaultLicenseStore }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about

```

device level licensing support information in the device."
::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseCounted,
 clmgmtLicenseValidityPeriod,
 clmgmtLicenseValidityPeriodRemaining,
 clmgmtLicenseExpiredPeriod,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtLicenseEULAStatus,
 clmgmtLicenseComments,
 clmgmtLicenseStatus
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,

 clmgmtFeatureValidityPeriodRemaining,
 clmgmtFeatureWhatIsCounted
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licensable features in the software image."

::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

OBJECTS {
 clmgmtNextFreeDevCredExportActionIndex,
 clmgmtDevCredEntPhysicalIndex,
 clmgmtDevCredTransferProtocol,
 clmgmtDevCredServerAddressType,
 clmgmtDevCredServerAddress,
 clmgmtDevCredServerUsername,
 clmgmtDevCredServerPassword,
 clmgmtDevCredExportFile,

```

        clmgmtDevCredCommand,
        clmgmtDevCredCommandState,
        clmgmtDevCredCommandFailCause,

        clmgmtDevCredStorageType,
        clmgmtDevCredRowStatus
    }
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS     {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,
    clmgmtLicenseRevoked,
    clmgmtLicenseEULAAccepted
}
STATUS      current
DESCRIPTION

```

```

    "A collection of notifications related to license deployment."
    ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { clmgmtLicenseNotEnforced }
STATUS      current
DESCRIPTION
    "A collection of notifications related to license errors."
    ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicenseStartDate,
    clmgmtLicenseEndDate,
    clmgmtFeatureStartDate,
    clmgmtFeatureEndDate
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    subscription licenses."
    ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseSubscriptionExpiryWarning,
    clmgmtLicenseSubscriptionExtExpiryWarning,
    clmgmtLicenseSubscriptionExpired
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to usage of subscription
    licenses."
    ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicensePeriodUsed,
    clmgmtFeaturePeriodUsed
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    Right to use (RTU) licenses."
    ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP

```

```

NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
::= { ciscoLicenseMgmtGroups 14 }

END

```

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF

1.51 prometheus-common 0.1.0

1.51.1 Available under license :

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1.52 segment 0.9.0

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1.53 globalsign-mgo 0.0.0-20181015135952- eeefdecbb41b8

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mgo - MongoDB driver for Go

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1.54 go-flags 1.5.0

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1.55 sqlhooks 1.3.0

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1.56 mpvl-unique 0.0.0-20150818121801-cbe035fff7de

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1.57 dennwc-varint 1.0.0

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1.58 bramvdbogaerde-go-scp 0.0.0-

20181214203537-0959688e0628

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1.60 go-socket-io 0.0.0-20170525141029-5447e71f36d3

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1.61 sqlx 1.3.4

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1.62 golang-migrate-migrate 4.7.0

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1.63 stack 1.8.1

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1.64 roaring 0.9.4

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prometheus_remote_client_golang 0.4.4

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1.72 json-iterator-go 1.1.12

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1.73 mattermost-xml-roundtrip-validator 0.1.0

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1.74 match 1.1.1

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1.75 go-diff lib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.76 go-debug 1.1.0

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1.77 google-apis 1.4.1

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1.78 go-runewidth 0.0.13

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1.79 lib-pq 1.10.4

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```
//go:build go1.10
// +build go1.10

package pq

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

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

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

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

// Connect calls the underlying connector's connect method and then sets the
```

```

// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

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

```

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1.80 uap-go 0.0.0-2021112212520-00c877edfe0f

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1.84 prometheus-client 1.12.1

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1.85 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.86 glob 0.2.3

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1.89 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.90 lumberjack 2.0.0

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1.91 go-redis-redis 8.11.5

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1.92 go-wordwrap 1.0.1

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1.93 vectordotdev-go-datemath 0.1.1-0.20220323213446-f3954d0b18ae

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1.94 go-kit-log 0.2.1

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1.95 ory-go-convenience 0.1.0

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1.96 seatgeek-logrus-gelf-formatter 0.0.0-20210414080842-5b05eb8ff761

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1.97 lib-pq 1.10.5

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```
//go:build go1.10
// +build go1.10
```

```
package pq
```

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

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
```

```

// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

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

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

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

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and

```



```

setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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1.98 dlmiddlecote-sqlstats 1.0.2

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1.99 jaeger-client-go 2.30.0+incompatible

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1.101 blugelabs-bluge_segment_api 0.2.0

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1.106 azure-storage-blob-go 0.15.0

1.106.1 Available under license :

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1.107 go-shortid 0.0.0-20171029131806-771a37caa5cf

1.107.1 Available under license :

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1.108 cristalhq-jwt 4.0.2

1.108.1 Available under license :

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1.109 yamux 0.1.1

1.109.1 Available under license :

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lockfileVersion: 5.3

specifiers:

'@sveltejs/vite-plugin-svelte': ^1.0.0-next.30

'@tauri-apps/api': ^1.0.0-beta.8

'@tauri-apps/cli': ^1.0.0-beta.10

'@tsconfig/svelte': ^2.0.1

'@types/crypto-js': ^4.1.0

'@types/node': ^12.0.0

axios: ^0.24.0

crypto-js: ^4.1.1

svelte: ^3.44.0

svelte-check: ^2.2.7

svelte-preprocess: ^4.9.8

tslib: ^2.3.1

typescript: ^4.4.4

vite: ^2.7.2

dependencies:

'@tauri-apps/api': 1.0.0-beta.8

'@types/node': 12.20.42

axios: 0.24.0

crypto-js: 4.1.1

devDependencies:

'@sveltejs/vite-plugin-svelte': 1.0.0-next.36_svelte@3.46.3+vite@2.7.13

'@tauri-apps/cli': 1.0.0-beta.10

'@tsconfig/svelte': 2.0.1

'@types/crypto-js': 4.1.0

svelte: 3.46.3

svelte-check: 2.3.0_svelte@3.46.3

svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5

tslib: 2.3.1

typescript: 4.5.5

vite: 2.7.13

packages:

/@nodelib/fs.scandir/2.1.5:

resolution: { integrity: sha512-

vq24Bq3ym5HEQm2NKCrc3yXDwjc7vTsEThRDnkp2DK9p1uqLR+DHurm/NOTo0KG7HYHU7eppKZj3MyqYuMBf62g==}

engines: { node: '>= 8' }

dependencies:

'@nodelib/fs.stat': 2.0.5


```

    run-parallel: 1.2.0
    dev: true

/@nodelib/fs.stat/2.0.5:
  resolution: {integrity: sha512-
RkhPP2zrqDAQA/2jNhnztcPAlv64XdhIp7a7454A5ovI7Bukxgt7MX7udwAu3zg1DcpPU0rz3VV1SeaqvY4+A==
}
  engines: {node: '>= 8'}
  dev: true

/@nodelib/fs.walk/1.2.8:
  resolution: {integrity: sha512-
oGB+UxlgWcgKqgwo8GcEGwemoTfT3FIO9ababBmaGwXIoBKZ+GTy0pP185beGg7Llih/NSHSV2XAs1lnznoc
Sg==}
  engines: {node: '>= 8'}
  dependencies:
    '@nodelib/fs.scandir': 2.1.5
    fastq: 1.13.0
  dev: true

/@rollup/pluginutils/4.1.2:
  resolution: {integrity: sha512-
ROn4qvKxP9SyPeHaf7uQC/GPFY6L/OWy9+bd9AwcjoAWQwxRscoEyAUD8qCY5o5iL4jqQwoLk2kaTKJPb/H
wzQ==}
  engines: {node: '>= 8.0.0'}
  dependencies:
    estree-walker: 2.0.2
    picomatch: 2.3.1
  dev: true

/@sindresorhus/is/0.14.0:
  resolution: {integrity: sha512-
9NET910DNalPngYnLLPeg+Ogzqsi9uM4mSboU5y6p8S5DzMTVEsJZrawi+BoDNUVBa2DhJqQYUFvMDfgU0
62LQ==}
  engines: {node: '>=6'}
  dev: true

/@sindresorhus/is/0.7.0:
  resolution: {integrity: sha512-
ONhaKPIufzzrlNbqtWFFd+jlnemX6lJAgq9ZeiZtS7I1PIf/la7CW4m83rTXRnVnsMbW2k56pGYu7AUFJD9Pow=
=}
  engines: {node: '>=4'}
  dev: true

/@sindresorhus/is/4.4.0:
  resolution: {integrity: sha512-
QppPM/8l3Mawvh4rn9CNEYIU9bXpXUCRMAx9yUpvBk1nMKusLKpfXGDEKEExKaPhLzcn3lzil7pR6rnJ11Hge
RQ==}

```

```

engines: { node: '>=10' }
dev: true

/@sveltejs/vite-plugin-svelte/1.0.0-next.36_svelte@3.46.3+vite@2.7.13:
  resolution: { integrity: sha512-
X7ITiioTGC3ri5M299fxc2dimuKU7f22zTXcmD+Nrf+fO9/b7YNfLeQQwWV7Tvv9REysMIR4G2HqF6+IY62p/
Q== }
  engines: { node: ^14.13.1 || >= 16 }
  peerDependencies:
    diff-match-patch: ^1.0.5
    svelte: ^3.44.0
    vite: ^2.7.0
  peerDependenciesMeta:
    diff-match-patch:
      optional: true
  dependencies:
    '@rollup/pluginutils': 4.1.2
    debug: 4.3.3
    kleur: 4.1.4
    magic-string: 0.25.7
    svelte: 3.46.3
    svelte-hmr: 0.14.9_svelte@3.46.3
    vite: 2.7.13
  transitivePeerDependencies:
    - supports-color
  dev: true

/@szmarczak/http-timer/1.1.2:
  resolution: { integrity: sha512-
XIB2XbzHTN6ieIjFIMV9hIVcfPU26s2vafYWQcZHWXHOxiaRZYEDKEwdl129Zyg50+foYV2jCgtrqSA6qNuNS
A== }
  engines: { node: '>=6' }
  dependencies:
    defer-to-connect: 1.1.3
  dev: true

/@szmarczak/http-timer/4.0.6:
  resolution: { integrity: sha512-
4BAffykYOgO+5nzBWYwE3W90sBgLJoUPRWWcL8wlyiM8IB8ipJz3UMJ9KXQd1RKQXpKp8Tutn80HZtWsu
2u76w== }
  engines: { node: '>=10' }
  dependencies:
    defer-to-connect: 2.0.1
  dev: true

/@tauri-apps/api/1.0.0-beta.8:
  resolution: { integrity: sha512-
a56lXB7XvQ4+fKtT0pxpkjTSKhyrQ1Vmjoyt2ox3mT9xw3l7s8IOKHJ1WuqW6TA6xdoy3Cyja3Z3prw8hflS7g==

```

```

}
engines: { node: '>= 12.13.0', npm: '>= 6.6.0', yarn: '>= 1.19.1' }
dev: false

/@tauri-apps/cli/1.0.0-beta.10:
  resolution: { integrity: sha512-
T0cvV5Y5vCeEw6tQ7DfuGhXxe26AwW9i3oYT/AQZlwrLG9Xk02Pp0/lKqd/WeddE3X/IFfSm8YMRCz3VEII
WQ== }
  engines: { node: '>= 12.20.0', npm: '>= 6.6.0', yarn: '>= 1.19.1' }
  hasBin: true
  dependencies:
    '@tauri-apps/toml': 2.2.4
    chalk: 4.1.2
    cross-env: 7.0.3
    cross-spawn: 7.0.3
    fs-extra: 10.0.0
    global-agent: 3.0.0
    got: 11.8.2
    imagemin: 8.0.1
    imagemin-optipng: 8.0.0
    imagemin-zopfli: 7.0.0
    inquirer: 8.1.2
    is-png: 3.0.0
    minimist: 1.2.5
    ms: 2.1.3
    png2icons: 2.0.1
    read-chunk: 3.2.0
    semver: 7.3.5
    sharp: 0.28.3
    update-notifier: 5.1.0
  dev: true

/@tauri-apps/toml/2.2.4:
  resolution: { integrity: sha512-
NJV/pdgJObDIDWi5+MTHZ2qyNvdL0dlHqQ72nzQYXWbW1LHMPXgCJYl0pLqL1XxxLtxtInYbtVCGVAcwh
Gxdkw== }
  dev: true

/@tokenizer/token/0.3.0:
  resolution: { integrity: sha512-
OvjF+z51L3ov0OyAU0duzsYuvO01PH7x4t6DJx+guahgTnBHkhJdG7soQeTSFLWN3efnHyibZ4Z8l2EuWwJN3
A== }
  dev: true

/@tsconfig/svelte/2.0.1:
  resolution: { integrity: sha512-
aqqICXbM1oX5FfgZd2qSSAGdyo/NRxxjWCamxoyi3T8iVQnzGge19HhDYzZ6NrVOW7bhcWNSq9XexWFtMzb
B24A== }

```

```

dev: true

/@types/cacheable-request/6.0.2:
  resolution: {integrity: sha512-
B3xVo+dlKM6nnKTcmm5ZtY/OL8bOAOd2Olee9M1zft65ox50OzjEHW91sDiU9j6cvW8Ejg1/Qkf4xd2kugApUA
==}
  dependencies:
    '@types/http-cache-semantics': 4.0.1
    '@types/keyv': 3.1.3
    '@types/node': 12.20.42
    '@types/responselike': 1.0.0
  dev: true

/@types/crypto-js/4.1.0:
  resolution: {integrity: sha512-
DCFfy/vh2lG6qHSGezQ+Sn2Ulf/1Mx51dqOdmOKyW5nMK3maLlxeS3onC7r212OnBM2pBR95HkAmAjjF08Yk
xQ==}
  dev: true

/@types/http-cache-semantics/4.0.1:
  resolution: {integrity: sha512-
SZs7ekbP8CN0txVG2xVRH6EgKmEm31BOxA07vkFaETzZz1xh+cbt8BcI0slpymvwhx5dlFnQG2rTlPVQn+iRPQ
==}
  dev: true

/@types/keyv/3.1.3:
  resolution: {integrity: sha512-
FXCJggyN3ivVgRoml4h94G/p3kY+u/B86La+QptcqJaWtBWtmc6TtkNfS40n9bIvyLteHh7zXOtgbobORKPbDg=
=}
  dependencies:
    '@types/node': 12.20.42
  dev: true

/@types/node/12.20.42:
  resolution: {integrity: sha512-
aI3/oo5DzyiI5R/xAhxxRzfZlWlsbbqdgxfTPkqu/Zt+23GXiJvMCyPJT4+xKSXOnLqoL8jJYMLTwvK2M3a5hw==
}

/@types/pug/2.0.6:
  resolution: {integrity: sha512-
SnHmG9wN1UVmagJOnyo/qkk0Z7gejYxOYYmaAwR5u2yFYfsupN3sg10kyzN8Hep/2zbHxCnsumxOoRIRMBw
KCg==}
  dev: true

/@types/responselike/1.0.0:
  resolution: {integrity: sha512-
85Y2BjjiufFzaMIlvJDvTTB8Fx12xfLo4HgmHzVBz08w4wDePCTjYw66PdrolO0kzli3yam/YCgRufyo1DdQVTA=

```

```
=}
dependencies:
  '@types/node': 12.20.42
dev: true

/@types/sass/1.43.1:
  resolution: {integrity: sha512-
BPdolt1lfJ6B7rw35ncdwBZrAssjcwzI5LByIrYs+tpXlj/CAkuVdRsgZDdP4lq5EjyWzwxZCqAoFyHKFwp32g==}
  dependencies:
    '@types/node': 12.20.42
  dev: true

/ansi-align/3.0.1:
  resolution: {integrity: sha512-
IOfwBF5iczOjp/WeY4YxyjqAFMQoZufdQWdD19SEExbVLNXqvpzSJ/M7Za4/sCPmQ0+GRquoA7bGcINcxe
w6w==}
  dependencies:
    string-width: 4.2.3
  dev: true

/ansi-escapes/4.3.2:
  resolution: {integrity: sha512-
gKXj5ALrKWQLsYG9jlTRmR/xKluxHV+Z9QEwNIgCfM1/uwPMCuzVVnh5mwTd+OuBZcwSIMbqssNWRm1l
E51QaQ==}
  engines: {node: '>=8'}
  dependencies:
    type-fest: 0.21.3
  dev: true

/ansi-regex/2.1.1:
  resolution: {integrity: sha1-w7M6te42DYbg5ijwRorn7yfWVN8=}
  engines: {node: '>=0.10.0'}
  dev: true

/ansi-regex/5.0.1:
  resolution: {integrity: sha512-
quJQXITSUGL2LH9SUXo8VwsY4soanhgo6LNSm84E1LBcE8s3O0wpdiRzyR9z/ZZJMIMWv37qOOB9pdJIMUE
KFQ==}
  engines: {node: '>=8'}
  dev: true

/ansi-styles/2.2.1:
  resolution: {integrity: sha1-tDLdM1i2NM914eRmQ2gkBTPB3b4=}
  engines: {node: '>=0.10.0'}
  dev: true

/ansi-styles/4.3.0:
  resolution: {integrity: sha512-

```

```

zbB9rCJAT1rbjiVDb2hqKFHNYLxgtk8NURxZ3IZwD3F6NtzbXZQCNnSi1Lkx+IDohdPIFp222wVALIheZJQSEg
==}
  engines: {node: '>=8'}
  dependencies:
    color-convert: 2.0.1
  dev: true

/anymatch/3.1.2:
  resolution: {integrity: sha512-P43ePfOAIupkguHUyrc4qJ9kz8ZiuOUijaETwX7THt0Y/GNK7v0aa8rY816xWjZ7rJdA5XdMcpVFTKMq+RvW
g==}
  engines: {node: '>= 8'}
  dependencies:
    normalize-path: 3.0.0
    picomatch: 2.3.1
  dev: true

/aproba/1.2.0:
  resolution: {integrity: sha512-
Y9J6ZjXtoYh8RnXVCMOU/ttDmk1aBjunq9vO0ta5x85WDQiQfUF9sIPBITdbiiIVcBo03Hi3jMxigBtsddlXRw==
}
  dev: true

/arch/2.2.0:
  resolution: {integrity: sha512-
Of/R0wqp83cgHozfIYLbBMnej79U/SVG0OyuB3VVFv1NRM/PSFMK12x9KVtiYzJqmnU5WR2qp0Z5rHb7sW
GnFQ==}
  dev: true

/archive-type/4.0.0:
  resolution: {integrity: sha1-+S5yIzBW38aWIHJ0nCZ72wRrHXA=}
  engines: {node: '>=4'}
  dependencies:
    file-type: 4.4.0
  dev: true

/are-we-there-yet/1.1.7:
  resolution: {integrity: sha512-
nxwy40TuMiUGqMyRHgCSWZ9FM4VAoRP4xUYSTv5ImRog+h9yISPbVH7H8fASCIzYn9wlEv4zvFL7uKDM
CFQm3g==}
  dependencies:
    delegates: 1.0.0
    readable-stream: 2.3.7
  dev: true

/array-find-index/1.0.2:
  resolution: {integrity: sha1-3wEKOSh+Fku9pvlyOwqWoexBh6E=}
  engines: {node: '>=0.10.0'}

```

```

dev: true

/array-union/3.0.1:
  resolution: {integrity: sha512-1OvF9IbWwaeiM9VhzYXVQacMibxpXOMYVNIvMtKRyX9SImBXpKcFr8XvFDeEslCyH/t6KRt7HEO94AlP8Iatw==}
  engines: {node: '>=12'}
  dev: true

/axios/0.24.0:
  resolution: {integrity: sha512-Q6cWsys88HoPgAaFAVUb0WpPk008iTeisR9IMqy9G8AbO4NlpVknrnQS03zzF9PGAWgO3cgletO3VjV/P7VztA==}
  dependencies:
    follow-redirects: 1.14.7
  transitivePeerDependencies:
    - debug
  dev: false

/balanced-match/1.0.2:
  resolution: {integrity: sha512-3oSeUO0TMV67hN1AmbXsK4yaqU7tjiHlbrRDZOpH0KW9+CeX4bRAaX0Anxt0tx2MrpRpWwQaPwIIlSEJhYU5Pw==}
  dev: true

/base64-js/1.5.1:
  resolution: {integrity: sha512-AKpaYlHn8t4SVbOHCy+b5+KKgvR4vrsD8vbvrbiQJps7fKDTkjkDry6ji0rUJjC0kzbNePLwzxq8iypo41qeWA==}
  dev: true

/bin-build/3.0.0:
  resolution: {integrity: sha512-jcUOof71/TNAI2uM5uoUaDq2ePcVBQ3R/qhxAz1rX7UfvduAL/RXD3jXzvn8cVcDJdGVkiR1shal3OH0ImpuhA==}
  engines: {node: '>=4'}
  dependencies:
    decompress: 4.2.1

download: 6.2.5
  execa: 0.7.0
  p-map-series: 1.0.0
  tempfile: 2.0.0
  dev: true

/bin-check/4.1.0:
  resolution: {integrity: sha512-b6weQyEUKsDGFACWSIOfveEnImkJyK/FGW6FAG42loyoquvjdIOIqO6yBFzHyqyVVhNgNkQxxx09SFLK28

```

```

YnA==}
  engines: {node: '>=4'}
  dependencies:
    execa: 0.7.0
    executable: 4.1.1
  dev: true

/bin-version-check/4.0.0:
  resolution: {integrity: sha512-
sR631OrhC+1f8Cvs8WyVWOA33Y8tgwjETNPyD/myRBXLkfS/vl74FmH/lFcRl9KY3zwGh7jFhvyk9vV3/3ilQ=
=}
  engines: {node: '>=6'}
  dependencies:
    bin-version: 3.1.0
    semver: 5.7.1
    semver-truncate: 1.1.2
  dev: true

/bin-version/3.1.0:
  resolution: {integrity: sha512-
Mkfm4iE1VFt4xd4vH+gx+0/71esbfus2LsnCGe8Pi4mndSPyT+NGES/Eg99jx8/lUGWfu3z2yuB/bt5UB+iVbQ==}
  engines: {node: '>=6'}
  dependencies:
    execa: 1.0.0
    find-versions: 3.2.0
  dev: true

/bin-wrapper/4.1.0:
  resolution: {integrity: sha512-
hfRmo7hWIXPkbpi0ZltboCMVrU+0ClXR/JgbCKKjIDjQf6igXa7OwdqNcFWQZPZTgiY7ZpzE3+LjjkLiTN2T7Q
==}
  engines: {node: '>=6'}
  dependencies:
    bin-check: 4.1.0
    bin-version-check: 4.0.0
    download: 7.1.0
    import-lazy: 3.1.0
    os-filter-obj: 2.0.0
    pify: 4.0.1
  dev: true

/binary-extensions/2.2.0:
  resolution: {integrity: sha512-
jDctJ/IVQbZoJykoeHbhXpOlNBqGNcwXJKJog42E5HDPuWQTSdjCHdihj0DlnheQ7blbT6dHOafNAiS8ooQKA
==}
  engines: {node: '>=8'}
  dev: true

```



```

/bl/1.2.3:
  resolution: {integrity: sha512-
pvcNpa0UU69UT341rO6AYy4FVAIkUHuZXRIWbq+zHnsVcRzDDjIAhGuuYoi0d//cwIwtt4pkpKycWEfjdV+vw
w==}
  dependencies:
    readable-stream: 2.3.7
    safe-buffer: 5.2.1
  dev: true

/bl/4.1.0:
  resolution: {integrity: sha512-
1W07cM9gS6DcLperZfFSj+bWLtaPGSOHWhPiGzXmvVJbRLdG82sH/Kn8EtW1VqWVA54AKf2h5k5BbnIbwF
3h6w==}
  dependencies:
    buffer: 5.7.1
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

/boolean/3.1.4:
  resolution: {integrity: sha512-
3hx0kwU3uzG6ReQ3pnaFQPSktpBw6RHN3/ivDKEuU8g1XSsafowyvDnadjv1xp8IZqhtSukxIwv9bF6FhX8m0w=
=}
  dev: true

/boxen/5.1.2:
  resolution: {integrity: sha512-
9gYgQKXx+1nP8mP7CzFyaUARhg7D3n1dF/FnErWmu9l6JvGpNUN278h0aSb+QjoiKSWG+iZ3uHrcqk0qrY9R
QQ==}
  engines: {node: '>=10'}
  dependencies:
    ansi-align: 3.0.1
    camelcase: 6.3.0
    chalk: 4.1.2
    cli-boxes: 2.2.1
    string-width: 4.2.3
    type-fest: 0.20.2
    widest-line: 3.1.0
    wrap-ansi: 7.0.0
  dev: true

/brace-expansion/1.1.11:
  resolution: {integrity: sha512-
iCuPHDFgrHX7H2vEI/5xpz07zSHB00TpugqhmYtVmMO6518mCuRMoOYFIdEBI0g187ufozdaHgWKcYFb61q
GiA==}
  dependencies:
    balanced-match: 1.0.2
    concat-map: 0.0.1

```

dev: true

/braces/3.0.2:

resolution: {integrity: sha512-b8um+L1RzM3WDSzvhm6gIz1yfTbBt6YTlcEKAvsmqCZZFw46z626lVj9j1yEPW33H5H+IBQpZMP1k8l+78Ha0A==}

engines: {node: '>=8'}

dependencies:

fill-range: 7.0.1

dev: true

/buffer-alloc-unsafe/1.1.0:

resolution: {integrity: sha512-TEM2iMIEQdJ2yjPJoSIsldnleVaAk1oW3DBVUykyOLsEsFmEc9kn+SFFPz+gl54KQNxlDnAwCXosOS9Okx2xA

g==}

dev: true

/buffer-alloc/1.2.0:

resolution: {integrity: sha512-CFsHQgjtW1UChdXgbyJGtnm+O/uLQeZdtbDo8mfUgYXCHSM1wgrVxXm6bSyrUuErEb+4sYVGCzASBRot7zyrow==}

dependencies:

buffer-alloc-unsafe: 1.1.0

buffer-fill: 1.0.0

dev: true

/buffer-crc32/0.2.13:

resolution: {integrity: sha1-DTM+PwDqxQqhRUq9MO+MKl2ackI=}

dev: true

/buffer-fill/1.0.0:

resolution: {integrity: sha1-+PeLdniYiO858gXNY39o5wISKyw=}

dev: true

/buffer/5.7.1:

resolution: {integrity: sha512-EHcyIPBQ4BSGlvjB16k5KgAJ27CIsHY/2JBmCRRReo48y9rQ3MaUzWX3KVIBa4U7MyX02HdVj0K7C3WaB3ju7FQ==}

dependencies:

base64-js: 1.5.1

ieee754: 1.2.1

dev: true

/cacheable-lookup/5.0.4:

resolution: {integrity: sha512-2/kNscPhpcxrOigMZzbiWF7dz8ilhb/nIHU3EyZiXWXpeq/au8qJ8VhdfMkty3n7Gj6HIGalQG8oiBNB3AJgA==}

engines: {node: '>=10.6.0'}

dev: true

/cacheable-request/2.1.4:

resolution: {integrity: sha1-DYCIAbY0KtM8kd+dC0TcCbkeXD0=}
dependencies:
clone-response: 1.0.2
get-stream: 3.0.0
http-cache-semantics: 3.8.1
keyv: 3.0.0
lowercase-keys: 1.0.0
normalize-url: 2.0.1
responselike: 1.0.2
dev: true

/cacheable-request/6.1.0:

resolution: {integrity: sha512-Oj3cAGPCqOZX7Rz64Uny2GYAZNliQSqfbcPrgAQ1wKAihYmCUnraBtJtKcGR4xz7wF+LoJC+ssFZvv5BgF9Ig
g==}
engines: {node: '>=8'}
dependencies:
clone-response: 1.0.2
get-stream: 5.2.0
http-cache-semantics: 4.1.0
keyv: 3.1.0
lowercase-keys: 2.0.0
normalize-url: 4.5.1
responselike: 1.0.2
dev: true

/cacheable-request/7.0.2:

resolution: {integrity: sha512-pouW8/FmiPQbuGpkXQ9BAPv/Mo5xDGANGSNXzTzJ8DrKGuXOssM4wIQRjfanNRh3Yu5cfYPvcorqbhg2KIJt
ew==}
engines: {node: '>=8'}
dependencies:
clone-response: 1.0.2
get-stream: 5.2.0
http-cache-semantics: 4.1.0
keyv: 4.0.5
lowercase-keys: 2.0.0
normalize-url: 6.1.0
responselike: 2.0.0
dev: true

/callsites/3.1.0:

resolution: {integrity: sha512-P8BjAsXvZS+VIDUI11hHCQEv74YT67YUisJJFNWIqL235sBmjX4+qx9Muvls5ivyNENctx46xQLQ3aTuE7ssaQ
==}
engines: {node: '>=6'}

dev: true

/camelcase-keys/2.1.0:

resolution: {integrity: sha1-MIvur/3ygRkFHvodkyITyRuPkuc=}

engines: {node: '>=0.10.0'}

dependencies:

camelcase: 2.1.1

map-obj: 1.0.1

dev: true

/camelcase/2.1.1:

resolution: {integrity: sha1-fB0W1nmhu+WcoCys7PsBHiAfWh8=}

engines: {node: '>=0.10.0'}

dev: true

/camelcase/6.3.0:

resolution: {integrity: sha512-

Gmy6FhYICY7uOEIzUSbxo2UCDH8owEk996gkbrpsgGtrJLM3J7jGxl9Ic7Qwwj4ivOE5AWZWRMecDdF7hqGjFA==}

engines: {node: '>=10'}

dev: true

/caw/2.0.1:

resolution: {integrity: sha512-

Cg8/ZSBEa8ZVY9HspcGUYaK63d/bN7rqS3CYCzEGUxuYv6UlmcyjzDUz2fCFFHyTvUW5Pk0I+3hkA3iXllj6guA==}

engines: {node: '>=4'}

dependencies:

get-proxy: 2.1.0

isurl: 1.0.0

tunnel-agent: 0.6.0

url-to-options: 1.0.1

dev: true

/chalk/1.1.3:

resolution: {integrity: sha1-qBFcVeSnAv5NFQq9OHKCKn4J/Jg=}

engines: {node: '>=0.10.0'}

dependencies:

ansi-styles: 2.2.1

escape-string-regexp: 1.0.5

has-ansi: 2.0.0

strip-ansi: 3.0.1

supports-color: 2.0.0

dev: true

/chalk/4.1.2:

resolution: {integrity: sha512-

oKnbfyRiXpUueez8iBMmyEa4nbj4IOQyuhc/wy9kY7/WVPcwIO9VA668Pu8RkO7+0G76SLROeyw9CpQ061i4

```

mA==}
  engines: {node: '>=10'}
  dependencies:
    ansi-styles: 4.3.0
    supports-color: 7.2.0
  dev: true

/chardet/0.7.0:
  resolution: {integrity: sha512-
mT8iDcrh03qDGRRmoA2hmBJnxpllMR+0/0qlzjqZES6NdiWDcZkCNAk4rPFZ9Q85r27unkiNNg8ZOiwZXBHw
cA==}
  dev: true

/chokidar/3.5.3:
  resolution: {integrity: sha512-
Dr3sfKRP6oTcjf2JmUmFJfeVMvXBdegxB0iVQ5eb2V10uFJUCAS8OByZdVAyVb8xXNz3GjjTgj9kLWsZTqE6
kw==}
  engines: {node: '>= 8.10.0'}
  dependencies:
    anymatch: 3.1.2
    braces: 3.0.2
    glob-parent: 5.1.2

is-binary-path: 2.1.0
  is-glob: 4.0.3
  normalize-path: 3.0.0
  readdirp: 3.6.0
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

/chownr/1.1.4:
  resolution: {integrity: sha512-
jJ0bqzaylmJtVnNgzTeSOs8DPavpbYgEr/b0YL8/2GO3xJEhInFmhKMUnEJQjZumK7KXGFhUy89PrsJWlakBVg
==}
  dev: true

/ci-info/2.0.0:
  resolution: {integrity: sha512-
5tK7EtrZ0N+OLFMthtqOj4f12Jeb88C4CAZPu25LDVUgXJ0A3Js4PMGqrn0JU1W0Mh1/Z8wZzYPxqUrXeBboC
Q==}
  dev: true

/cli-boxes/2.2.1:
  resolution: {integrity: sha512-
y4coMcyIlgSCdVinjiDBuR8PCC2bLjyGTwEmPb9NHR/QaNU6EUOXcTY/s6VjGMD6ENSEaeQYHCY0GNGS5j
fMwPw==}
  engines: {node: '>=6'}

```

dev: true

/cli-cursor/3.1.0:

resolution: {integrity: sha512-
I/zHAWsKf9FqGoXM4WWRACob9+SNukZTd94DWF57E4tooRuIbCxcUh6RKUEOQIYTHJnzKPMYsVpNaaSL
NfLZw==}
engines: {node: '>=8'}
dependencies:
 restore-cursor: 3.1.0
dev: true

/cli-spinners/2.6.1:

resolution: {integrity: sha512-
x/5fWmGMnbKQAaNwN+UZlV79qBLM9JFnJuJ03gli5whrob0xV0ofNVHy9DhwGdsMJQc2OKv0oGmLzvaqvA
Vv+g==}
engines: {node: '>=6'}
dev: true

/cli-width/3.0.0:

resolution: {integrity: sha512-
FxqpkPPwu1HjuN93Omfm4h8uIanXofW0RxVEW3k5RKx+mJJYSthzNhp32Kzxy3YAEZ/Dc/EWN1vZRY0+kO
hbw==}
engines: {node: '>= 10'}
dev: true

/clone-response/1.0.2:

resolution: {integrity: sha1-0dyXOSAxtfZ/vrICI7TuNQI56Ws=}
dependencies:
 mimic-response: 1.0.1
dev: true

/clone/1.0.4:

resolution: {integrity: sha1-2jCcwmPfFZlMaIypAheco8fNfH4=}
engines: {node: '>=0.8'}
dev: true

/code-point-at/1.1.0:

resolution: {integrity: sha1-DQcLTQQ6W+ozovGkDi7bPZpMz3c=}
engines: {node: '>=0.10.0'}
dev: true

/color-convert/1.9.3:

resolution: {integrity: sha512-
QfAUtd+vFdAtFQcC8CCyYt1fYWxSqAiK2cSD6zDB8N3cpsEBAvRxp9zOGg6G/SHHJYAT88/az/IuDGALsNV
bGg==}
dependencies:
 color-name: 1.1.3
dev: true

```

/color-convert/2.0.1:
  resolution: {integrity: sha512-
RRECPsj7iu/xb5oKYcsFHSppFNnsj/52OVTRKb4zP5onXwVF3zVmmToNcOfGC+CRDpfK/U584fMg38ZHCaEl
KQ==}
  engines: {node: '>=7.0.0'}
  dependencies:
    color-name: 1.1.4
  dev: true

/color-name/1.1.3:
  resolution: {integrity: sha1-p9BVi9icQveV3UIy3QIMcpTvCU=}
  dev: true

/color-name/1.1.4:
  resolution: {integrity: sha512-
dOy+3AuW3a2wNbZHIuMZpTcgjGuLU/uBL/ubcZF9OXbDo8ff4O8yVp5Bf0efS8uEoYo5q4Fx7dY9OgQGxgAs
QA==}
  dev: true

/color-string/1.9.0:
  resolution: {integrity: sha512-
9Mrz2AQLefkH1UvASKj6v6hj/7eWgjnT/cVsR8CumieLoT+g900exWeNogqtweI8dxloXN9BDQTYro1oWu/5CQ
==}
  dependencies:
    color-name: 1.1.4
    simple-swizzle: 0.2.2
  dev: true

/color/3.2.1:
  resolution: {integrity: sha512-
aB17dZI9ENN6fUGC7mWpMTPNHmWUSNan9tuWN6ahh5ZLNk9baLJOnSMlrQkHcrfFgz2/RigjUVAjdx36Vce
mKA==}
  dependencies:
    color-convert: 1.9.3
    color-string: 1.9.0
  dev: true

/commander/2.20.3:
  resolution: {integrity: sha512-
GpVkmM8vF2vQUkj2LvZmD35JxeJOLCwJ9cUkugyk2nuhvv3+mJvpLYYt+0+USMxE+oj+ey/IJEnhZw75x/OMc
Q==}
  dev: true

/concat-map/0.0.1:
  resolution: {integrity: sha1-2Klr13/Wjfd5OnMDajug1UBdR3s=}
  dev: true

```

/config-chain/1.1.13:
resolution: {integrity: sha512-qj+f8APARXHrM0hraQXYb2/bOVSV4PvJQlNZ/DVj0QrmNM2q2euizkeuVckQ57J+W0mRH6Hvi+k50M4Jul2VRQ==}
dependencies:
ini: 1.3.8
proto-list: 1.2.4
dev: true

/configstore/5.0.1:
resolution: {integrity: sha512-aMKprgk5YhBNyH25hj8wGt2+D52Sw1DRRIzqBwLp2Ya9mFmY8KPvvtvmna8SxVR9JmZ4kzMD68N22vlaRpkeFA==}
engines: {node: '>=8'}
dependencies:
dot-prop: 5.3.0
graceful-fs: 4.2.9
make-dir: 3.1.0
unique-string: 2.0.0
write-file-atomic: 3.0.3
xdg-basedir: 4.0.0
dev: true

/console-control-strings/1.1.0:
resolution: {integrity: sha1-PXz0Rk22RG6mRL9LOVB/mFEAjo4=}
dev: true

/console-stream/0.1.1:
resolution: {integrity: sha1-oJX+B7IEZZVfL6/Si11yvM2UnUQ=}
dev: true

/content-disposition/0.5.4:
resolution: {integrity: sha512-FveZTNuGw04cx1AiWbzi6zTAL/lhehWbTtgluJh4/E95DqMwTmha3KZN1aAWA8cFIhHzMZUvLevkw5Rqk+tSQ==}
engines: {node: '>= 0.6'}
dependencies:
safe-buffer: 5.2.1
dev: true

/core-util-is/1.0.3:
resolution: {integrity: sha512-ZQBvi1DcpJ4GDqanjucZ2Hj3wEO5pZDS89BWbkcrvdxksJorwUDDZamX9ldFkp9aw2lmBDLgkObEA4DWNJ9FYQ==}
dev: true

/cross-env/7.0.3:
resolution: {integrity: sha512-...


```

+/HKd6EgcQCJGh2PSjZuUitQBQynKor4wrFbRg4DtAgS1aWO+gU52xpH7M9ScGgXSYmAVS9bIJ8EzuaGw0o
NAw==}
  engines: {node: '>=10.14', npm: '>=6', yarn: '>=1'}
  hasBin: true
  dependencies:
    cross-spawn: 7.0.3
  dev: true

/cross-spawn/5.1.0:
  resolution: {integrity: sha1-6L0O/uWPz/b4+UUQoKVUu/ojVEk=}
  dependencies:
    lru-cache: 4.1.5
    shebang-command: 1.2.0
    which: 1.3.1
  dev: true

/cross-spawn/6.0.5:
  resolution: {integrity: sha512-eTVLrBST7fjbDygz805pMnstIs2VTBNkRm0qxZd+M7A5XDdxVRWO5MxGBXZhjY4cqLYLdtrGqRf8mBPmzw
SpWQ==}
  engines: {node: '>=4.8'}
  dependencies:
    nice-try: 1.0.5
    path-key:
      2.0.1
    semver: 5.7.1
    shebang-command: 1.2.0
    which: 1.3.1
  dev: true

/cross-spawn/7.0.3:
  resolution: {integrity: sha512-iRDPJKUPVEND7dHPO8rkbOnPpyDygcDFtWjpeWNCgy8WP2rXcxXL8TskReQl6OrB2G7+UJrags1q15Fudc7G
6w==}
  engines: {node: '>= 8'}
  dependencies:
    path-key: 3.1.1
    shebang-command: 2.0.0
    which: 2.0.2
  dev: true

/crypto-js/4.1.1:
  resolution: {integrity: sha512-o2JIM7yqdq3Qk9CA0L4NL6mTzU2sdX96a+oOfPu8Mkl/PK51vSyoi8/rQ8NknZtk44vq15lmhAj9CIAGwgeWKw=
=}
  dev: false

/crypto-random-string/2.0.0:

```

```

    resolution: {integrity: sha512-
v1pIID3y9r/lPhviJ1wrXpLeyUIGAZ2SHNYTEapm7/8A9nLPoyvVp3RK/EPFqn5kEznyWgYZNsRtYYIWbuG8K
A==}
    engines: {node: '>=8'}
    dev: true

/currently-unhandled/0.4.1:
  resolution: {integrity: sha1-mI3zP+qxke95mmE2nddsF635V+o=}
  engines: {node: '>=0.10.0'}
  dependencies:
    array-find-index: 1.0.2
  dev: true

/debug/4.3.3:
  resolution: {integrity: sha512-
/zxw5+vh1Tfv+4Qn7a5nsbcJKPaSvCDhojn6FEI9vupwK2VCSDtEiEtqr8DFtzYFOdz63LBkxec7DYuc2jon6Q==}
  engines: {node: '>=6.0'}
  peerDependencies:
    supports-color: '*'
  peerDependenciesMeta:
    supports-color:
      optional: true
  dependencies:
    ms: 2.1.2
  dev: true

/decamelize/1.2.0:
  resolution: {integrity: sha1-9lNNFRSCabIDUue+4m9QH5oZEpA=}
  engines: {node: '>=0.10.0'}
  dev: true

/decode-uri-component/0.2.0:
  resolution: {integrity: sha1-6zkTMzRYd1y4TNGh+uBiEGu4dUU=}
  engines: {node: '>=0.10'}
  dev: true

/decompress-response/3.3.0:
  resolution: {integrity: sha1-gKTdMjdIOEv6JICDYirt7Jgq3/M=}
  engines: {node: '>=4'}
  dependencies:
    mimic-response: 1.0.1
  dev: true

/decompress-response/4.2.1:
  resolution: {integrity: sha512-
jOSne2qbyE+/r8G1VU+G/82LBs2Fs4LAsTiLSHOCOMZQl2OKZ6i8i4IyHemTe+/yIXOtTcRQMzPcgyhoFlqPkw
==}
  engines: {node: '>=8'}

```

dependencies:

mimic-response: 2.1.0

dev: true

/decompress-response/6.0.0:

resolution: {integrity:

sha512-

aW35yZM6Bb/4oJlZncMH2LCoZtJXTRxES17vE3hoRiowU2kWHaJKFkSBDnDR+cm9J+9QhXmREyIfv0pji9ejCQ==}

engines: {node: '>=10'}

dependencies:

mimic-response: 3.1.0

dev: true

/decompress-tar/4.1.1:

resolution: {integrity: sha512-

JdJMaCrGpB5fESVyxwpCx4Jdj2AagLmv3y58Qy4GE6HmVjWz1FeVQk1Ct4Kye7PftcdOo/7U7UKzYBJgqnGeUQ==}

engines: {node: '>=4'}

dependencies:

file-type: 5.2.0

is-stream: 1.1.0

tar-stream: 1.6.2

dev: true

/decompress-tarbz2/4.1.1:

resolution: {integrity: sha512-

s88xLzf1r81ICXLAVQVzaN6ZmX4A6U4z2nMbOwobxkLoIlIfjVMBg7TeguTUXkKeXni795B6y5rnvDw7rxhAq9A==}

engines: {node: '>=4'}

dependencies:

decompress-tar: 4.1.1

file-type: 6.2.0

is-stream: 1.1.0

seek-bzip: 1.0.6

unbzip2-stream: 1.4.3

dev: true

/decompress-targz/4.1.1:

resolution: {integrity: sha512-

4z81Znfr6chWnRDNfFNqLwPvm4db3WuZkqV+UgXQzSngG3CEKdBkw5jrv3axjjL96glyiiKjsxJG3X6WBZwX3w==}

engines: {node: '>=4'}

dependencies:

decompress-tar: 4.1.1

file-type: 5.2.0

is-stream: 1.1.0

dev: true

```

/decompress-unzip/4.0.1:
  resolution: {integrity: sha1-3qrM39FK6vhVePczroIQ+bSEj2k=}
  engines: {node: '>=4'}
  dependencies:
    file-type: 3.9.0
    get-stream: 2.3.1
    pify: 2.3.0
    yauzl: 2.10.0
  dev: true

/decompress/4.2.1:
  resolution: {integrity: sha512-
e48kc2IjU+2Zw8cTb6VZcJQ3lgVbS4uuB1TfCHbiZIP/haNXm+SVyhu+87jts5/3ROpd82GSVCoNs/z8l4ZOaQ==}
  engines: {node: '>=4'}
  dependencies:
    decompress-tar: 4.1.1
    decompress-tarbz2: 4.1.1
    decompress-targz: 4.1.1
    decompress-unzip: 4.0.1
    graceful-fs: 4.2.9
    make-dir: 1.3.0
    pify: 2.3.0
    strip-dirs: 2.1.0
  dev: true

/deep-extend/0.6.0:
  resolution: {integrity: sha512-
LOHxIOaPYdHIJRtCQfDIVZtfw/ufM8+rVj649RIHzcm/vGwQRXFt6OPqIFWsm2XEMrNIEtWR64sY1LEKD2v
AOA==}
  engines: {node: '>=4.0.0'}
  dev: true

/defaults/1.0.3:
  resolution: {integrity: sha1-xlYFHpgX2f8I7YgUd/P+QBnz730=}
  dependencies:
    clone: 1.0.4
  dev: true

/defer-to-connect/1.1.3:
  resolution: {integrity: sha512-
0ISdNousHvZT2EiFlZeZAHBUvSxmKswVCEf8hW7KWgG4a8MVEu/3Vb6uWYozkjylyCxe0JBliRB1jV45S70
WVQ==}
  dev: true

/defer-to-connect/2.0.1:
  resolution: {integrity: sha512-
4ttvtteXG1VaYGrRibk5EwJd1t4udunSOVMdLSAL6mId1ix438oPwPZMALY41FCijukO1L0twNcGsdzS7dHgDg

```

```

==}
  engines: {node: '>=10'}
  dev: true

/define-properties/1.1.3:
  resolution: {integrity: sha512-
3MqfYKj2lLzdMSf8ZIZE/V+Zuy+BgD6f164e8K2w7dgnpKArBDerGYpM46IYYcjnkdpNMjPk9A6VFB8+3SKl
XQ==}
  engines: {node: '>= 0.4'}
  dependencies:
    object-keys: 1.1.1
  dev: true

/delegates/1.0.0:
  resolution: {integrity: sha1-hMbhWbgZBP3KwADvRM2HDTElD5o=}
  dev: true

/detect-indent/6.1.0:
  resolution: {integrity: sha512-
reYkTUJAZb9gUuZ2RvVCNhVHdg62RHnJ7WJl8ftMi4diZ6NWlciOzQN88pUhSELEwflJht4oQDv0F0BmlwaYt
A==}
  engines: {node: '>=8'}
  dev: true

/detect-libc/1.0.3:
  resolution:
{integrity: sha1-+hN8S9aY7fVc1c0CrFWfkaTEups=}
  engines: {node: '>=0.10'}
  hasBin: true
  dev: true

/detect-node/2.1.0:
  resolution: {integrity: sha512-
T0NIuQpnTvFDATNuHN5roPwSBG83rFsuO+MXXH9/3N1eFbn4wcPjttvjMLEPWJ0RGUYgQE7cGgS3tNxbqC
GM7g==}
  dev: true

/dir-glob/3.0.1:
  resolution: {integrity: sha512-
WkrWp9GR4KXfKGYzOLmTuGVi1UWFfws377n9cc55/tb6DuqyF6pcQ5AbiHEshaDpY9v6oaSr2XCDidGmMw
dzIA==}
  engines: {node: '>=8'}
  dependencies:
    path-type: 4.0.0
  dev: true

/dot-prop/5.3.0:
  resolution: {integrity: sha512-

```

QM8q3zDe58hqUqjraQOmzZ1LIH9SWQJTIEKCH4kJ2oQvLZk7RbQXvtDM2XEq3fwkV9CCvvH4LA0AV+ogF
sBM2Q==}

engines: {node: '>=8'}

dependencies:

is-obj: 2.0.0

dev: true

/download/6.2.5:

resolution: {integrity: sha512-

DpO9K1sXAST8Cpzb7kmEhogJxymyVUd5qz/vCOSyvwt2Klj2XcDt5YUuasgxka44SxF0q5RriKIwJmQHG2Au
A==}

engines: {node: '>=4'}

dependencies:

caw: 2.0.1

content-disposition: 0.5.4

decompress: 4.2.1

ext-name:

5.0.0

file-type: 5.2.0

filenamify: 2.1.0

get-stream: 3.0.0

got: 7.1.0

make-dir: 1.3.0

p-event: 1.3.0

pify: 3.0.0

dev: true

/download/7.1.0:

resolution: {integrity: sha512-

xqnBTvD/E+GxJVrX5/eUJiLYjCGPwMpdL+jGhGU57BvtcA7wwhtHVbXBeUk51kOpW3S7Jn3BQbN9Q1R1Km
2qDQ==}

engines: {node: '>=6'}

dependencies:

archive-type: 4.0.0

caw: 2.0.1

content-disposition: 0.5.4

decompress: 4.2.1

ext-name: 5.0.0

file-type: 8.1.0

filenamify: 2.1.0

get-stream: 3.0.0

got: 8.3.2

make-dir: 1.3.0

p-event: 2.3.1

pify: 3.0.0

dev: true

/duplexer3/0.1.4:

```

resolution: {integrity: sha1-7gHdHKwO08vH/b6jfcCo8c4ALOI=}
dev: true

/emoji-regex/8.0.0:
  resolution: {integrity: sha512-MSjYzcWNOA0ewAHpz0MxpYFvwg6yjy1NG3xteoqz644VCo/RPgnr1/GGt+ic3iJTzQ8Eu3TdM14SawnVUmGE6A==}
  dev: true

/end-of-stream/1.4.4:
  resolution: {integrity: sha512+uw1inIHVPQoaVuHzRyXd21icM+cnt4CzD5rW+NC1wjOUSTOs+Te7FOv7AhN7vS9x/oIyhLP5PR1H+phQAHu5Q==}
  dependencies:
    once: 1.4.0
  dev: true

/error-ex/1.3.2:
  resolution: {integrity: sha512-7dFHNmqeFSEt2ZBsCriorKnn3Z2pj+fd9kmI6QoWw4//DL+icEBfc0U7qJCisqrTsKTjw4fNfy2pW9OqStD84g==}
  dependencies:
    is-arrayish: 0.2.1
  dev: true

/es6-error/4.1.1:
  resolution: {integrity: sha512-Um/+FxMr9CISWh0bi5Zv0iOD+4cFh5qLeks1qhAopKVAJw3drgKbKySikp7wGhDL0HPeaja0P5ULZrxLkniUVg==}
  dev: true

/es6-promise/3.3.1:
  resolution: {integrity: sha1-oIzd6EzNvzTQJ6FFG8kdS80ophM=}
  dev: true

/esbuild-android-arm64/0.13.15:
  resolution: {integrity: sha512-m602nft/XXeO8YQPUDVoHfjyRVPdPgjyXOXZ44MK/agewFFkPa8tUo6lAzSWh5Ui5PB4KR9UIFTSBKh/RrCmg==}
  cpu: [arm64]
  os: [android]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-darwin-64/0.13.15:
  resolution: {integrity: sha512-ihOQRGs2yyp7t5bArCwnvn2Atr6X4axqPpEdCFVPv7iUj4cVSdisgvEKdNR7yH3JDjW6aQDw40iQFoTqejqxvQ==}

```

cpu: [x64]
os: [darwin]
requiresBuild: true
dev: true
optional: true

/esbuild-darwin-arm64/0.13.15:

resolution: {integrity: sha512-
i1fZssTVxUqNIJ6cBTj5YQj4imWy3m49RZRnHhLpefFIh0To05ow9DTrXROTE1urGTQClOFUXTX8QfGJy1P8
dQ==}
cpu: [arm64]
os: [darwin]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-64/0.13.15:

resolution: {integrity: sha512-
G3dLBXUI6lC6Z09/x+WtXBxbOYQZ0E8TDBqvn7aMaOCzryJs8LyVXKY4CPnHFXZAbSwkCbqiPuSQ1+Hhr
Nk7EA==}
cpu: [x64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-arm64/0.13.15:

resolution: {integrity: sha512-
KJx0fzEDf1uhNOZQStV4ujg30WlnwqUASaGSFPhznLM/bbheu9HhqZ6mJJZM32lkyfGJikw0jg7v3S0oAvtvQQ=
=
=
cpu: [arm64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-32/0.13.15:

resolution: {integrity: sha512-
ZvTBPk0YWCLMCXiFmD5EUtB30zIPvC5Itxz0mdTu/xZBbbHJftQgLWY49wEPSn2T/TxahYCRDWun5smRa0
Tu+g==}
cpu: [ia32]
os: [linux]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-64/0.13.15:

resolution: {integrity: sha512-


```

eCKzkNSLywNeQTRBxJRQ0jxRCI2YWdMB3+PkWFo2BBQYC5mISLIVIjThNtn6HUNqua1pnvgP5xX0nHbZb
Pj5oA==}
  cpu: [x64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-arm/0.13.15:
  resolution: {integrity: sha512-
wUHttDi/ol0tD8ZgUMDH8Ef7IbDX+/UsWJOXaAyTdkT7Yy9ZBqPg8bgB/Dn3CZ9SBpNieozrPRHm0BGww7W
/jA==}
  cpu: [arm]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-arm64/0.13.15:
  resolution: {integrity: sha512-
bYpuUIN6qYU9slzr/ltyLTR9YTBS7qUDymO8SV7kjeNext61OdmqFAzuVZom+OLW1HPHseBfJ/JfdSlx8oTUoA
==}
  cpu: [arm64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-mips64le/0.13.15:
  resolution: {integrity: sha512-
KlVjIG828uFPyJkO/8gKwy9RbXhCEUeFsCGOJBepUlpa7G8/SeZgncUEz/tOOUJTcWMTmFMtdd3GEIGyAtbS
Wg==}
  cpu: [mips64le]
  os: [linux]
  requiresBuild:
true
  dev: true
  optional: true

/esbuild-linux-ppc64le/0.13.15:
  resolution: {integrity: sha512-
h6gYF+OsaqEuBjeesTBtUPw0bmiDu7eAeuc2OEh9S6mV9/jPhPdH0Wzdeshb0BskRZxPhxPOjqZ+/OqLcxQwEQ
==}
  cpu: [ppc64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

```

```
/esbuild-netbsd-64/0.13.15:
  resolution: {integrity: sha512-3+yE9emwoevLMYvu+iR3rsa+Xwhie7ZEHMGDQ6dkqP/ndFzRHkobHUKTe+NCApSqG5ce2z4rFu+NX/UHnXlh3w==}
  cpu: [x64]
  os: [netbsd]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-openbsd-64/0.13.15:
  resolution: {integrity: sha512-wTfvwYJYAFL1fSs8yHIdf5GEE4NkbtbXtjLWjM3Cw8mmQKqsg8kTiqJ9NJQe5NX/5Qlo7Xd9r1yKMMkHllp5g==}
  cpu: [x64]
  os: [openbsd]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-sunos-64/0.13.15:
  resolution: {integrity: sha512-lbivT9Bx3t1iWWrSnGyBP9ODriEvWDRiweAs69vI+miJoeKwHWOCmSRukttbuzjZ8r1q0mQJ8Z7yUsDJ3hKdw==}
  cpu: [x64]
  os: [sunos]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-windows-32/0.13.15:
  resolution: {integrity: sha512-fDMEf2g3SsJ599MBr50cY5ve5lP1wyVwTe6aLJsM01KtxyKkB4UT+fc5MXQFn3RLrAIAZOG+tHC+yXObpSn7Nw==}
  cpu: [ia32]
  os: [win32]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-windows-64/0.13.15:
  resolution: {integrity: sha512-9aMsPRGDWCd3bGjUIKG/ZOJPKsitzlxl/Q3C1XDswO6eNX/Jtwu4M+jb6YDH9hRSUflQWX0XKAfWzgy5Wk54JQ==}
  cpu: [x64]
  os: [win32]
  requiresBuild: true
```

dev: true
optional: true

/esbuild-windows-arm64/0.13.15:
resolution: {integrity: sha512-
zzvyCVVpbwQQATaf3IG8mu1IwGEiDxKkYUdA4FpoCHi1KtPa13jeScYDjlW0Qh+ebWzpKfR2ZwvqAQkSWN
cKjA==}
cpu: [arm64]
os: [win32]
requiresBuild: true
dev: true
optional: true

/esbuild/0.13.15:
resolution: {integrity: sha512-
raCxt02HBKv8RJxE8vkTSCXGIyKHdEdGfUmiYb8wnabnaEmHzyW7DCHb5tEN0xU8ryqg5xw54mcwnYkC4x3
AIw==}
hasBin: true
requiresBuild: true
optionalDependencies:
 esbuild-android-arm64:
0.13.15
 esbuild-darwin-64: 0.13.15
 esbuild-darwin-arm64: 0.13.15
 esbuild-freebsd-64: 0.13.15
 esbuild-freebsd-arm64: 0.13.15
 esbuild-linux-32: 0.13.15
 esbuild-linux-64: 0.13.15
 esbuild-linux-arm: 0.13.15
 esbuild-linux-arm64: 0.13.15
 esbuild-linux-mips64le: 0.13.15
 esbuild-linux-ppc64le: 0.13.15
 esbuild-netbsd-64: 0.13.15
 esbuild-openbsd-64: 0.13.15
 esbuild-sunos-64: 0.13.15
 esbuild-windows-32: 0.13.15
 esbuild-windows-64: 0.13.15
 esbuild-windows-arm64: 0.13.15
dev: true

/escape-goat/2.1.1:
resolution: {integrity: sha512-
8/uIhbG12CsJy2JEW7D9pHbreaVaS/OpN3ycnyvElTdwM5n6GY6W6e2IPemfvGZeUMqZ9A/3GqIZMgKnBhAw/
Q==}
engines: {node: '>=8'}
dev: true

/escape-string-regexp/1.0.5:

resolution: {integrity: sha1-G2HAViGQqN/2rjuyzwIAyhMLhtQ=}
engines: {node: '>=0.8.0'}
dev: true

/escape-string-regexp/4.0.0:
resolution: {integrity: sha512-TtpcNJ3XAzz3Gq8sWRzJaVajRs0uVxA2YAkdb1jm2YkPz4G6egUFAYa3n5vtEIZefPk5Wa4UXbKuS5fKkJWdgA==}
engines: {node: '>=10'}
dev: true

/estree-walker/2.0.2:
resolution: {integrity: sha512-Rfkk/Mp/DL7JVje3u18FxFujQITNR2q6QfMSMB7AvCBx91NGj/ba3kCfza0f6dVDbw7YIRf/nDm7pQrCCyQ/w==}
dev: true

/exec-buffer/3.2.0:
resolution: {integrity: sha512-wsiD+2Tp6BWhoVv3B+5Dcx6E7u5zky+hUwOHjuH2hKSLR3dvRmX8fk8UD8uqQixHs4Wk6eDmiegvRMPjKj7wpA==}
engines: {node: '>=4'}
dependencies:
 execa: 0.7.0
 p-finally: 1.0.0
 pify: 3.0.0
 rimraf: 2.7.1
 tempfile: 2.0.0
dev: true

/execa/0.7.0:
resolution: {integrity: sha1-lEvs00zEHuMqY6n68nrVpl/FI3c=}
engines: {node: '>=4'}
dependencies:
 cross-spawn: 5.1.0
 get-stream: 3.0.0
 is-stream: 1.1.0
 npm-run-path: 2.0.2
 p-finally: 1.0.0
 signal-exit: 3.0.6
 strip-eof: 1.0.0
dev: true

/execa/1.0.0:
resolution: {integrity: sha512-adbxcyWV46qiHyvSp50TKt05tB4tK3HcmF7/nxfAdhnox83seTDbwnaqKO4sXRy7roHAIFqJP/Rw/AuEbX61LA==}
dev: true

```

engines: {node: '>=6'}
dependencies:
  cross-spawn: 6.0.5
  get-stream: 4.1.0
  is-stream: 1.1.0
  npm-run-path: 2.0.2
  p-finally: 1.0.0
  signal-exit: 3.0.6
  strip-eof: 1.0.0
dev: true

/executable/4.1.1:
  resolution: {integrity: sha512-8iA79xD3uAch729dUG8xaaBBFGaEa0wdD2VkYLFHwlqosEj/jT66AzcreRDSgV7ehnNLBW2WR5jIXwGKjVdT
Lg==}
  engines: {node: '>=4'}
  dependencies:
    pify: 2.3.0
  dev: true

/expand-template/2.0.3:
  resolution: {integrity: sha512-XYfuKMvj4O35f/pOXLObndIRvyQ+/+6AhODh+OKWj9S9498pHHn/IMszH+gt0fBCRWMNfk1ZSp5x3AifmnI2
vg==}
  engines: {node: '>=6'}
  dev: true

/ext-list/2.2.2:
  resolution: {integrity: sha512-u+SQgsubraE6zItfVA0tBuCBhfU9ogSRnsvygI7wht9TS510oLkBRXBsqopeUG/GBOIQyKZO9wjTqIu/sf5zFA==}
  engines: {node: '>=0.10.0'}
  dependencies:
    mime-db: 1.51.0
  dev: true

/ext-name/5.0.0:
  resolution: {integrity: sha512-yblEwXAbGv1VQDmow7s38W77hzAgJAO50ztBLMcUyUBfxv1HC+LGwtiEN+Co6LtlqT/5uwVOxsD4TNiilWh
wdQ==}
  engines: {node: '>=4'}
  dependencies:
    ext-list: 2.2.2
    sort-keys-length: 1.0.1
  dev: true

/external-editor/3.1.0:
  resolution: {integrity: sha512-hMQ4CX1p1izmuLYyZqLMO/qGNw10wSv9QDCPfzXfyFrOaCSSoRfqE1Kf1s5an66J5JZC62NewG+mK49jOCt

```

```

Qew==}
  engines: { node: '>=4' }
  dependencies:
    chardet: 0.7.0
    iconv-lite: 0.4.24
    tmp: 0.0.33
  dev: true

/fast-glob/3.2.11:
  resolution: { integrity: sha512-
xrO3+1bxSo3ZVHAnqzyuewYT6aMFHRAd4Kcs92MAonjwQZLsK9d0SF1IyQ3k5PoirxTW0Oe/RqFgMQ6TcNE
5Ew==}
  engines: { node: '>=8.6.0' }
  dependencies:
    '@nodelib/fs.stat': 2.0.5
    '@nodelib/fs.walk': 1.2.8
    glob-parent: 5.1.2
    merge2: 1.4.1
    micromatch: 4.0.4
  dev: true

/fastq/1.13.0:
  resolution: { integrity: sha512-
YpkipUnK8od0o1hmeSc7UUs/eB/vIPWJYjKck2QKIzAf71Vm1AAQ3EbuZB3g2JIy+pg+ERD0vqI79KyZiB2e2N
w==}
  dependencies:
    reusify: 1.0.4
  dev: true

/fd-slicer/1.1.0:
  resolution: { integrity: sha1-JcfInLH5B3+IkbvmHY85Dq4lhx4=}
  dependencies:
    pend: 1.2.0
  dev: true

/figures/1.7.0:
  resolution: { integrity: sha1-y+Hjr/zxzUS4DK3+0o3Hk6lwHS4=}
  engines: { node: '>=0.10.0' }
  dependencies:
    escape-string-regexp: 1.0.5
    object-assign: 4.1.1
  dev: true

/figures/3.2.0:
  resolution: { integrity: sha512-
yaduQFRKLXYOGgEn6AZau90j3ggSOyiqXU0F9JZfeXYhNa+Jk4X+s45A2zg5jns87GAFa34BBm2kXw4XpNcb
dg==}
  engines: { node: '>=8' }

```

dependencies:

escape-string-regexp: 1.0.5

dev: true

/file-type/16.5.3:

resolution: {integrity: sha512-

uVsl7iFhHSOY4bEONLITK47iAHtNsFHWp5YE4xJfZ4rnX7S1Q3wce09XgqSC7E/xh8Ncv/be1lNoyprlUH/x6A=
=}

engines: {node: '>=10'}

dependencies:

readable-web-to-node-stream: 3.0.2

strtok3: 6.2.4

token-types: 4.1.1

dev: true

/file-type/3.9.0:

resolution: {integrity: sha1-JXoHg4TR24CHvESdEH1SpSZyuek=}

engines: {node: '>=0.10.0'}

dev: true

/file-type/4.4.0:

resolution: {integrity: sha1-G2AOX8ofvcboDApwxxyNul95BsU=}

engines: {node: '>=4'}

dev: true

/file-type/5.2.0:

resolution: {integrity: sha1-LdvqfHP/42No365J3DOMBYwritY=}

engines: {node: '>=4'}

dev: true

/file-type/6.2.0:

resolution: {integrity: sha512-

YPcTBDV+2Tm0VqjybVd32MHdlEGAtuxS3VAYsumFokDSMG+ROT5wawGlnHDoz7bfMcMDt9hXuXvXwoK
Ux2fkOg==}

engines: {node: '>=4'}

dev: true

/file-type/8.1.0:

resolution: {integrity: sha512-

qyQ0pzAy78gVoJsmYeNgl8uH8yKhr1lVhW7JbzJmnlRi0I4R2eEDEJZVKG8agpDnLpacwNbDhLNG/LMdxHD2
YQ==}

engines: {node: '>=6'}

dev: true

/filename-reserved-regex/2.0.0:

resolution: {integrity: sha1-q/c9+rc10EVECr/qLZHzieu/oik=}

engines: {node: '>=4'}

dev: true

/filenamify/2.1.0:
resolution: {integrity: sha512-
ICw7NTT6RsDp2mYKVd8Fu4cr6ITzGy3+u4vUujPkabyaz+03F24NWEX7fs5fp+kBonlaqPH8fAO2NM+SXt/JA=
=}
engines: {node: '>=4'}
dependencies:
filename-reserved-regex: 2.0.0
strip-outer: 1.0.1
trim-repeated: 1.0.0
dev: true

/fill-range/7.0.1:
resolution: {integrity: sha512-
qOo9F+dMUmC2Lcb4BbVvnKJxTPjCm+RRpe4gDuGrzkL7mEVI/djYSu2OdQ2Pa302N4oqkSg9ir6jaLWJ2USVp
Q==}
engines: {node: '>=8'}
dependencies:
to-regex-range: 5.0.1
dev: true

/find-up/1.1.2:
resolution: {integrity: sha1-ay6YIrGizgpgq2TWEOzK1TyyTQ8=}
engines: {node: '>=0.10.0'}
dependencies:
path-exists: 2.1.0
pinkie-promise: 2.0.1
dev: true

/find-versions/3.2.0:
resolution: {integrity: sha512-
P8WRou2S+oe222TOCHitLy8zj+SIsVJh52VP4lvXkaFVnOFFdoWv1H1Jjvel1aI6NCFOAaeAVm8qrI0odiLcww=
=}
engines: {node: '>=6'}
dependencies:
semver-regex: 2.0.0
dev: true

/follow-redirects/1.14.7:
resolution: {integrity: sha512-
+hbxoLbFMbRKDwohX8GkTataGqO6Jb7jGwpAlwgy2blz25XtRm7KEzJM76R1WiNT5SwZkX4Y75SwBolkpm
E7iQ==}
engines: {node: '>=4.0'}
peerDependencies:
debug: '*'
peerDependenciesMeta:
debug:
optional: true

dev: false

/from2/2.3.0:

resolution: {integrity: sha1-i/tVAr3kpNNs/e6gB/zKIdfjqg8=}

dependencies:

inherits: 2.0.4

readable-stream: 2.3.7

dev: true

/fs-constants/1.0.0:

resolution: {integrity: sha512-

y6OAwoSIf7FyjMIv94u+b5rdheZEjzR63GTyZJm5qh4Bi+2YgwLCcI/fPFZkL5PSixOt6ZNMk+w+Hfp/Bciwow=
=}

dev: true

/fs-extra/10.0.0:

resolution: {integrity: sha512-

C5owb14u9eJwizKGdchcDUQeFtlSHHthBk8pbX9Vc1PFZrLombudjDnNns88aYslCyF6IY5SUw3Roz6xShcEIQ=
=}

engines: {node: '>=12'}

dependencies:

graceful-fs: 4.2.9

jsonfile: 6.1.0

universalify: 2.0.0

dev: true

/fs.realpath/1.0.0:

resolution: {integrity: sha1-FQStJSMVjKpA20onh8sBQRmU6k8=}

dev: true

/fsevents/2.3.2:

resolution: {integrity: sha512-

xiiQMQR4xAeHTuB9uWm+fFRcIOgKBMiOBp+eXiyT7jsgVCq1bkVygt00oASowB7EdtpOHaaPgKt812P9ab+DD
KA==}

engines: {node: ^8.16.0 || ^10.6.0 || >=11.0.0}

os: [darwin]

requiresBuild: true

dev: true

optional: true

/function-bind/1.1.1:

resolution: {integrity: sha512-

yIovAzMX49sF8YI58fSCWJ5svSLuaibPxXQJFLmBObTuCr0Mf1KiPopGM9NiFjiYBCbfaa2Fh6breQ6ANVTI0A
==}

dev: true

/gauge/2.7.4:

```

resolution: {integrity: sha1-LANAXHU4w51+s3sxcCLjJfsBi/c=}
dependencies:
  aproba: 1.2.0
  console-control-strings: 1.1.0
  has-unicode: 2.0.1
  object-assign: 4.1.1
  signal-exit: 3.0.6
  string-width: 1.0.2
  strip-ansi: 3.0.1
  wide-align: 1.1.5
dev: true

/get-proxy/2.1.0:
  resolution: {integrity: sha512-
zmZlaQTwNnQB4R4fJUEp/FC51eZsc6EkErsPy3xtIYStaq8EB/hDIWipxsa1+E8rz0qD7f2sL/NA9Xee4RInJw==}
  engines: {node: '>=4'}
  dependencies:
    npm-conf: 1.1.3
  dev: true

/get-stdin/4.0.1:
  resolution: {integrity: sha1-uWjGsKBDhDJJAui/Gl3zJXmkUP4=}
  engines: {node: '>=0.10.0'}
  dev: true

/get-stream/2.3.1:
  resolution: {integrity: sha1-Xzj5PzRgCWZu4BUKBUFn+Rvld4=}
  engines: {node: '>=0.10.0'}
  dependencies:
    object-assign: 4.1.1
    pinkie-promise:
      2.0.1
  dev: true

/get-stream/3.0.0:
  resolution: {integrity: sha1-jpQ9E1jcN1VQVOy+LtsFqhdO3hQ=}
  engines: {node: '>=4'}
  dev: true

/get-stream/4.1.0:
  resolution: {integrity: sha512-
GMat4EJ5161kIy2HevLlr4luNjBgvmj413KaQA7jt4V8B4RDsfPHk7WQ9GVqfYyyx8OS/L66Kox+rJRNklLK7w=
=}
  engines: {node: '>=6'}
  dependencies:
    pump: 3.0.0
  dev: true

```

```

/get-stream/5.2.0:
  resolution: {integrity: sha512-
nBF+F1rAZVCu/p7rjzgA+Yb4lfYXrpl7a6VmJrU8wF9I1CKvP/QwPNZHnOlwbTkY6dvtFIzFMSyQXbLoTQPRp
A==}
  engines: {node: '>=8'}
  dependencies:
    pump: 3.0.0
  dev: true

/github-from-package/0.0.0:
  resolution: {integrity: sha1-l/tdlr/eiXMxPyDoKI75oWf6ZM4=}
  dev: true

/glob-parent/5.1.2:
  resolution: {integrity: sha512-
AOIgSQcepiJYwP3ARnGx+5VnTu2HBYdzbGP45eLw1vr3zB3vZLeyed1sC9hnbcOc9/SrMyM5RPQrkGz4aS9Zo
w==}
  engines: {node: '>= 6'}
  dependencies:
    is-glob: 4.0.3
  dev: true

/glob/7.2.0:
  resolution: {integrity: sha512-
lmLf6gtyrPq8tTjSmrO94wBeQbFR3HbLHbuyD69wuyQkImp2hWqMGB47OX65FBkPffO641IP9jWa1z4ivqG26
Q==}
  dependencies:
    fs.realpath: 1.0.0
    inflight: 1.0.6
    inherits: 2.0.4
    minimatch: 3.0.4
    once: 1.4.0
    path-is-absolute: 1.0.1
  dev: true

/global-agent/3.0.0:
  resolution: {integrity: sha512-
PT6XReJ+D07JvGoxQMkT6qji/jVNfX/h364XHZOWeRzy64sSFr+XJ5OX7LI3b4MPQzdL4H8Y8M0xzPpsVMw
A8Q==}
  engines: {node: '>=10.0'}
  dependencies:
    boolean: 3.1.4
    es6-error: 4.1.1
    matcher: 3.0.0
    roarr: 2.15.4
    semver: 7.3.5
    serialize-error: 7.0.1
  dev: true

```

```

/global-dirs/3.0.0:
  resolution: {integrity: sha512-
v8ho2DS5RiCjftj1nD9NmnfaOzTdud7RRnVd9kFNOjqZbISlx5DQ+OrTkywgd0dIt7oFCvKetZSHoHcP3sDdiA==
}
  engines: {node: '>=10'}
  dependencies:
    ini: 2.0.0
  dev: true

/globalthis/1.0.2:
  resolution: {integrity: sha512-
ZQnSFO1la8P7auIOQECnm0sSuoMeaSq0EEedXMBFF2QJO4uNcwbyhSgG3MruWNbFTqCLmxVwGOl7LZ9kA
SvHdeQ==}
  engines: {node: '>= 0.4'}
  dependencies:
    define-properties: 1.1.3
  dev: true

/globby/12.2.0:
  resolution: {integrity: sha512-
wiSuFQLZ+urS9x2gGPI1H5drc5twabmm4m2gTR27XDFyjUHHJUNsS8o/2aKyIF6IoBaR630atdher0XJ5g6OMmA
==}
  engines: {node: ^12.20.0 || ^14.13.1 || >=16.0.0}
  dependencies:
    array-union: 3.0.1
    dir-glob: 3.0.1
    fast-glob: 3.2.11
    ignore: 5.2.0
    merge2: 1.4.1
    slash: 4.0.0
  dev: true

/got/11.8.2:
  resolution: {integrity: sha512-
D0QywKgIe30ODs+fm8wMZiAcZjypcCodPNuMz5H9Mny7RJ+IjJ10BdmGW7OM7fHXP+O7r6ZwapQ/YQmMS
vB0UQ==}
  engines: {node: '>=10.19.0'}
  dependencies:
    '@sindresorhus/is': 4.4.0
    '@szmarczak/http-timer': 4.0.6
    '@types/cacheable-request': 6.0.2
    '@types/responselike': 1.0.0
    cacheable-lookup: 5.0.4
    cacheable-request: 7.0.2
    decompress-response: 6.0.0
    http2-wrapper: 1.0.3
    lowercase-keys: 2.0.0

```

```

    p-cancelable: 2.1.1
    responselike: 2.0.0
    dev: true

/got/7.1.0:
  resolution:
    {integrity: sha512-
Y5WMo7xKKq1muPsxD+KmrR8DH5auG7fBdDVueZwETwV6VytKyU9OX/ddpq2/1hp1vIPvVb4T81dKQz3Biv
kNLw==}
  engines: {node: '>=4'}
  dependencies:
    decompress-response: 3.3.0
    duplexer3: 0.1.4
    get-stream: 3.0.0
    is-plain-obj: 1.1.0
    is-retry-allowed: 1.2.0
    is-stream: 1.1.0
    isurl: 1.0.0
    lowercase-keys: 1.0.1
    p-cancelable: 0.3.0
    p-timeout: 1.2.1
    safe-buffer: 5.2.1
    timed-out: 4.0.1
    url-parse-lax: 1.0.0
    url-to-options: 1.0.1
    dev: true

/got/8.3.2:
  resolution: {integrity: sha512-
qjUJ5U/hawxosMryILofZCkm3C84PLJS/0grRIpjAwu+Lkxxj5cxeCU25BG0/3mDSpXKTyZr8oh8wIgLaH0QCw=
=}
  engines: {node: '>=4'}
  dependencies:
    '@sindresorhus/is': 0.7.0
    cacheable-request: 2.1.4
    decompress-response: 3.3.0
    duplexer3: 0.1.4
    get-stream: 3.0.0
    into-stream: 3.1.0
    is-retry-allowed: 1.2.0
    isurl: 1.0.0
    lowercase-keys: 1.0.1
    mimic-response: 1.0.1
    p-cancelable:
0.4.1
    p-timeout: 2.0.1
    pify: 3.0.0
    safe-buffer: 5.2.1

```

timed-out: 4.0.1
url-parse-lax: 3.0.0
url-to-options: 1.0.1
dev: true

/got/9.6.0:

resolution: {integrity: sha512-R7eWptXuGYxwijs0eV+v3o6+XH1IqVK8dJOEecQfTmkncw9AV4dcw/Dhxi8MdlqPthxxpZyizMzyg8RTmEsG+Q==}
engines: {node: '>=8.6'}
dependencies:
 '@sindresorhus/is': 0.14.0
 '@szmarczak/http-timer': 1.1.2
 cacheable-request: 6.1.0
 decompress-response: 3.3.0
 duplexer3: 0.1.4
 get-stream: 4.1.0
 lowercase-keys: 1.0.1
 mimic-response: 1.0.1
 p-cancelable: 1.1.0
 to-readable-stream: 1.0.0
 url-parse-lax: 3.0.0
dev: true

/graceful-fs/4.2.9:

resolution: {integrity: sha512-NtNxqUcXgpW2iMrfqSfR73Glt39K+BLwWSPs94yR63v45T0Wbej7eRmL5cWfwEgqXnmjQp3zaJTshdRW/qC2ZQ==}
dev: true

/has-ansi/2.0.0:

resolution: {integrity: sha1-NPUEnOHs3ysGSa8+8k5F7TVBbZE=}
engines: {node: '>=0.10.0'}
dependencies:

ansi-regex: 2.1.1
dev: true

/has-flag/4.0.0:

resolution: {integrity: sha512-EykJT/Q1KjTWctppgIAgfSO0tKVuZUjhgMr17kqTumMl6Afv3EISleU7qZUzoXDFTAHTDC4NOoG/ZxU3EvlMPQ==}
engines: {node: '>=8'}
dev: true

/has-symbol-support-x/1.4.2:

resolution: {integrity: sha512-3ToOva++HaW+eCpgqZrCfN51IPB+7bJNVT6CUATzueB5Heb8o6Nam0V3HG5dlDvZU1Gn5QLcbahiKw/XV5
3ToOva++HaW+eCpgqZrCfN51IPB+7bJNVT6CUATzueB5Heb8o6Nam0V3HG5dlDvZU1Gn5QLcbahiKw/XV5

```

JJw==}
  dev: true

/has-to-string-tag-x/1.4.1:
  resolution: {integrity: sha512-
vdbKfmw+3LoOYVr+mtxHaX5a96+0f3DljYd8JOqvOLsf5mw2Otda2qCDT9qRqLAhrjyQ0h7ual5nOiASpsGNFw
==}
  dependencies:
    has-symbol-support-x: 1.4.2
  dev: true

/has-unicode/2.0.1:
  resolution: {integrity: sha1-4Ob+aijPUROIVeCG0Wkedx3iqLk=}
  dev: true

/has-yarn/2.1.0:
  resolution: {integrity: sha512-
UqBRqi4ju7T+TqGNdqAO0PaSVGsDGJUBQvk9eUWNGRY1CFGDzYhLWoM7JQEemnlvVcv/YEmc2wNW8B
C24EnUsw==}
  engines: {node: '>=8'}
  dev: true

/has/1.0.3:
  resolution: {integrity: sha512-
f2dvO0VU6Oej7RkWJGrehjbzMAjFp5/VKPp5tTpWIV4JHHZK1/BxbFRtf/siA2SWTe09caDmVtYYzWEIbBS4z
w==}
  engines: {node: '>= 0.4.0'}
  dependencies:
    function-bind: 1.1.1
  dev: true

/hosted-git-info/2.8.9:
  resolution: {integrity: sha512-
mxIDAb9Lsm6DoOJ7xH+5+X4y1LU/4Hi50L9C5sIswK3JzULS4bwk1FvjdBgvYR4bzT4tuUQiC15FE2f5HbLvY
w==}
  dev: true

/http-cache-semantics/3.8.1:
  resolution: {integrity: sha512-
5ai2iksyV8ZXmnZhHH4rWPoxxistEexSi5936zIQ1bnNTW5VnA85B6P/VpXiRM017IgRvb2kKo1a//y+0wSp3w=
=}
  dev: true

/http-cache-semantics/4.1.0:
  resolution: {integrity: sha512-
carPklcUh7ROWRK7Cv27RPtdhYhUsela/ue5/jKzjegVvXDqM2ILE9Q2BGn9JZJh1g87cp56su/FgQSzcWS8cQ==
}
  dev: true

```

```

/http2-wrapper/1.0.3:
  resolution: {integrity: sha512-
V+23sDMr12Wnz7iTcDeJr3O6AIxInvT/bmaAAAP/Xda35C90p9599p0F1eHR/N1KILWSoWVAiOMFjBBXaXS
Mxg==}
  engines: {node: '>=10.19.0'}
  dependencies:
    quick-lru: 5.1.1
    resolve-alpn: 1.2.1
  dev: true

/iconv-lite/0.4.24:
  resolution: {integrity: sha512-
v3MXnZAcvnywkTUEZomIActle7RXXeedOR31wwl7VlyoXO4Qi9arvSenNQWne1TcRwhCL1HwLI21bEqdpj8/r
A==}
  engines: {node: '>=0.10.0'}
  dependencies:
    safer-buffer: 2.1.2
  dev: true

/ieee754/1.2.1:
  resolution: {integrity: sha512-
dcyqhDvX1C46lXZcVqCpK+FtMRQVdIMN6/Df5js2zouUsqG7I6sFxitIC+7KYK29KdXOLHdu9zL4sFnoVQnqa
A==}
  dev: true

/ignore/5.2.0:
  resolution: {integrity: sha512-
CmxgYGiEPCLhflNpPp1MoRmifwEIOgicHXxOBjv7mY96c+eWScsOP9c112ZyLdWHi0FxHjI+4uVhKYp/gcdR
mQ==}
  engines: {node: '>= 4'}
  dev: true

/imagemin-optipng/8.0.0:
  resolution: {integrity: sha512-
CUGfhfwqlPjAC0rm8Fy+R2DJDBGjzy2SkfyT09L8rasnF9jSoHFqJ1xxSZWK6HVPZBMhGPMxCTL70OgTHILF
5A==}
  engines: {node: '>=10'}
  dependencies:
    exec-buffer: 3.2.0
    is-png: 2.0.0
    optipng-bin: 7.0.1
  dev: true

/imagemin-zopfli/7.0.0:
  resolution: {integrity: sha512-
nmffj58rVb0O3AICZLBBVKgyZ5MYPZZfKxUhvA7bwPGougHI/F7EUKSse9jkgXjdvtJYG2ojJeh5N67mYgBM
9g==}

```



```

engines: {node: '>=10'}
dependencies:
  exec-buffer: 3.2.0
  is-png:
2.0.0
  zopfli-png-bin: 6.0.1
dev: true

/imagemin/8.0.1:
  resolution: {integrity: sha512-
Q/QaPi+5HuwBZNtQRqUVk6hKacI6z9iWiCSQBisAv7uBynZwO7t1svkryKl7+iSQbkU/6t9DWnHz04cFs2WY7w
==}
  engines: {node: '>=12'}
  dependencies:
    file-type: 16.5.3
    globby: 12.2.0
    graceful-fs: 4.2.9
    junk: 3.1.0
    p-pipe: 4.0.0
    replace-ext: 2.0.0
    slash: 3.0.0
  dev: true

/import-fresh/3.3.0:
  resolution: {integrity: sha512-
veYYhQa+D1QbKznvhUHxb8faxlrwUnxseDAbAp457E0wLNio2bOSKnjYDhMj+YiAq61xrMGhQk9iXV5Fzg
QMw==}
  engines: {node: '>=6'}
  dependencies:
    parent-module: 1.0.1
    resolve-from: 4.0.0
  dev: true

/import-lazy/2.1.0:
  resolution: {integrity: sha1-BWmOPUXIjo1+nZLLBYTnfwlvPkM=}
  engines: {node: '>=4'}
  dev: true

/import-lazy/3.1.0:
  resolution: {integrity: sha512-
8/gvXvX2JMn0F+CDISC4l6kOmVaLOO3XLkksI7CI3Ud95KDYJuYur2b9P/PUt/i/pDAMd/DulQsNbbbmRRsDI
Q==}
  engines: {node: '>=6'}
  dev: true

/imurmurhash/0.1.4:
  resolution: {integrity: sha1-khi5srkoojixPcT7a21XbyMUU+o=}
  engines: {node: '>=0.8.19'}

```

dev: true

/indent-string/2.1.0:

resolution: {integrity: sha1-j1INIdCEhtKghi3oTfppSBJ3IA=}

engines: {node: '>=0.10.0'}

dependencies:

repeating: 2.0.1

dev: true

/inflight/1.0.6:

resolution: {integrity: sha1-Sb1jMdfQLQwJvJEKEHW6gWW1bfk=}

dependencies:

once: 1.4.0

wrappy: 1.0.2

dev: true

/inherits/2.0.4:

resolution: {integrity: sha512-

k/vGaX4/Yla3WzyMCvTQOXYeIHvqOKtnqBduzTHpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXXka4dYeZIQqewQ==}

dev: true

/ini/1.3.8:

resolution: {integrity: sha512-

JV/yugV2uzW5iMRSiZAyDtQd+nxTUnjeLt0acNdw98kKLrvuRVyB80tsREOE7yvGVgalhZ6RNXCmEHkUKBKxew==}

dev: true

/ini/2.0.0:

resolution: {integrity: sha512-

7PnF4oN3CvZF23ADhA5wRaYEQpJ8qygSktTXWBeXWXmEVRXK+1ITciHWwHhsjv1TmW0MgacIv6hEi5pX5NQdA==}

engines: {node: '>=10'}

dev: true

/inquirer/8.1.2:

resolution: {integrity: sha512-

DHLKJwLPNgkfwNmsuEUKSejJFbkv0FMO9SMiQbjI3n5NQUCrSIBqP66ggqyz2a6t2qEolKrMjhQ3+W/xXgUQ+Q==}

engines: {node: '>=8.0.0'}

dependencies:

ansi-escapes: 4.3.2

chalk: 4.1.2

cli-cursor: 3.1.0

cli-width: 3.0.0

external-editor: 3.1.0

figures: 3.2.0

lodash: 4.17.21

mute-stream: 0.0.8
ora: 5.4.1
run-async: 2.4.1
rxjs: 7.5.2
string-width: 4.2.3
strip-ansi: 6.0.1
through: 2.3.8
dev: true

/into-stream/3.1.0:

resolution: {integrity: sha1-lvsKk2wSur1v8XUqF9BWFqvQIMY=}
engines: {node: '>=4'}
dependencies:
 from2: 2.3.0
 p-is-promise: 1.1.0
dev: true

/is-arrayish/0.2.1:

resolution: {integrity: sha1-d8mYQFJ6qOyxqLppe4BkWnqSap0=}
dev: true

/is-arrayish/0.3.2:

resolution: {integrity: sha512-eVRqCvVIZbuw3GrM63ovNSNAeA1K16kaR/LRY/92w0zxQ5/1YzwbIUx652i4Xs9RwAGjW9d9y6X88t8OaAJfWQ==}
dev: true

/is-binary-path/2.1.0:

resolution: {integrity: sha512-ZMERYes6pDydyuGidse7OsHxtbI7WVeUEozgR/g7rd0xUimYNIvZRE/K2MgZTjWy725IfelLeVcEM97mmtRGXw==}
engines: {node: '>=8'}
dependencies:
 binary-extensions: 2.2.0
dev: true

/is-ci/2.0.0:

resolution: {integrity: sha512-YfJT7rkpQB0updsdHLGWrvhBJfczNNawYDNIyQXJz0IViGf75O8EBPKSdvw2rF+LGCsX4FZ8tcr3b19LcZq4w==}
hasBin: true
dependencies:
 ci-info: 2.0.0
dev: true

/is-core-module/2.8.1:

resolution: {integrity: sha512-SdNCUs284hr40hFTFP6l0IfZ/RSrMXF3qgoRHd3/79unUTvrFO/JoXwkGm+5J/Oe3E/b5GsnG330uUNgRpu1PA=

```

=}
```

- dependencies:
 - has: 1.0.3
 - dev: true

/is-extglob/2.1.1:

- resolution: {integrity: sha1-qIwCU1eR8C7TfHahueqXc8gz+MI=}
- engines: {node: '>=0.10.0'}
- dev: true

/is-finite/1.1.0:

- resolution: {integrity: sha512-cdyMtqX/BOqqNBBiKlIVkytNHm49MtMIYyn1zzzvJKWmFMlGzm+ry5BBfYyeY9YmNKbRSO/o7OX9w9ale0wg3w==}
- engines: {node: '>=0.10.0'}
- dev: true

/is-fullwidth-code-point/1.0.0:

- resolution: {integrity: sha1-754xOG8DGn8NZDr4L95QxPfvAMs=}
- engines: {node: '>=0.10.0'}
- dependencies:
 - number-is-nan: 1.0.1
- dev: true

/is-fullwidth-code-point/3.0.0:

- resolution: {integrity: sha512-zymm5+u+sCsSWyD9qNaejV3DFvhCKclKdizYaJUuHA83RLjb7nSuGnddCHGv0hk+KY7BMAlsWeK4Ueg6EV6XQg==}
- engines: {node: '>=8'}
- dev: true

/is-glob/4.0.3:

- resolution: {integrity: sha512-xelSayHH36ZgE7ZWWhli7pW34hNbNl8Ojv5KVmkJD4hBdD3th8Tfk9vYasLM+mXWOZhFkgZfxhLSnrwRr4elSSg==}
- engines: {node: '>=0.10.0'}
- dependencies:
 - is-extglob: 2.1.1
- dev: true

/is-installed-globally/0.4.0:

- resolution: {integrity: sha512-iwGqO3J21aaSkC7jWnHP/difazwS7SFeIqyv6wEtLU8Y5KlzfTjyqcSIT0d8s4+dDhKytsk9PJZ2BkS5eZwQRQ==}
- engines: {node: '>=10'}
- dependencies:
 - global-dirs: 3.0.0
 - is-path-inside: 3.0.3

dev: true

/is-interactive/1.0.0:

resolution: {integrity: sha512-2HvIEKRoqS62guEC+qBjpvRubdX910WCMuJTZ+I9yvqKU2/12eSL549HMwtabb4oupdj2sMP50k+XJfB/8JE6w==}
engines: {node: '>=8'}
dev: true

/is-natural-number/4.0.1:

resolution: {integrity: sha1-q5124dtM7VHjXeDHLr7PCfc0zeg=}
dev: true

/is-npm/5.0.0:

resolution: {integrity: sha512-WW/rQLOazUq+ST/bCAVBp/2oMERWLsR7OrKyt052dNDk4DHcDE0/7QSXITlmi+VBcV13DfIbysG3tZJm5RfdBA==}
engines: {node: '>=10'}
dev: true

/is-number/7.0.0:

resolution: {integrity: sha512-41Cifkg6e8TylSpdtTpeLVMqvSBEVzTttHvERD741+pnZ8ANv0004MRL43QKPD1K9cGvNp6NZWZUBlbGXYxng==}
engines: {node: '>=0.12.0'}
dev: true

/is-obj/2.0.0:

resolution: {integrity: sha512-drqDG3cbczzxEJR0OXcOjtdp1J/lp1mNn0xaznRs8+muBhgQcrnbspox5X5fOw0HnMnbfDzvnEMEtqDEJEo8w==}
engines: {node: '>=8'}
dev: true

/is-object/1.0.2:

resolution: {integrity: sha512-2rRIahhZr2UWb45fIOuvZGpFtz0TyOZLf32KxBbSoUCeZR495zCKIWUKKUByk3geS2eAs7ZAABt0Y/Rx0GiQGA==}
dev: true

/is-path-inside/3.0.3:

resolution: {integrity: sha512-Fd4gABb+ycGAmKou8eMftCupSir5IRxqf4aD/vd0cD2qc4HL07OjCeuHMr8Ro4CoMaeCKDB0/ECBOVWjTwUvPQ==}
engines: {node: '>=8'}
dev: true

/is-plain-obj/1.1.0:

```

    resolution: {integrity: sha1-caUMhCnfync8kqOQpKA7OfzVHT4=}
    engines: {node: '>=0.10.0'}
    dev: true

/is-png/2.0.0:
  resolution: {integrity: sha512-4KPGizaVGj2LK7xwJlZ8o5B2ubu1D/vcQsgOGFEDlpcvgZHto4gBnyd0ig7Ws+67ixmwKoNmu0hYnpo6AaKb5g==}
  engines: {node: '>=8'}
  dev: true

/is-png/3.0.0:
  resolution: {integrity: sha512-waa2qEuqgLjjYT14KOUQqAEIRRIv7ttkzPVctY/qv+IAKnzXf+JAPKQas50RgO0ECPDUG/iB1zQmwpYB9kkZtQ==}
  engines: {node: '>=12'}
  dev: true

/is-retry-allowed/1.2.0:
  resolution: {integrity: sha512-RUbUeKwvm3XG2VYamhJL1xFktgfvPzL0Hq8C+6yrWlswDy3BIXGqCxxhkc30N9jqK311gVU137K8Ei55/zVJRg==}
  engines: {node: '>=0.10.0'}
  dev: true

/is-stream/1.1.0:
  resolution: {integrity: sha1-EtSj3U5o4Lec6428hBc66A2RykQ=}
  engines: {node: '>=0.10.0'}
  dev: true

/is-typedarray/1.0.0:
  resolution: {integrity: sha1-5HnICFjfDBsR3dppQPlgEfzaSpo=}
  dev: true

/is-unicode-supported/0.1.0:
  resolution: {integrity: sha512-knxG2q4UC3u8stRGyAVJCOdxFmv5DZiRcdIIaAQXAbSfJya+OhopNotLQrstBhququ4ZpuKbDc/8S6mgXgPFPw==}
  engines: {node: '>=10'}
  dev: true

/is-utf8/0.2.1:
  resolution: {integrity: sha1-Sw2hRCEE0bM2NA6AeX6GXPOffXI=}
  dev: true

/is-yarn-global/0.3.0:
  resolution: {integrity: sha512-VjSeb/IHmkoyd8ryPVIKvOCn4D1koMqY+vqyjjUfc3xyKtP4dYOxM44sZrnqQSzSds3xyOrUTLTC9LVCVgLngw

```

```

==}
  dev: true

/isarray/1.0.0:
  resolution: {integrity: sha1-u5NdSFgsuhaMBoNJV6VKPgcSTxE=}
  dev: true

/isexe/2.0.0:
  resolution: {integrity: sha1-6PvzdNxVb/iUehDcsFctYz8s+hA=}
  dev: true

/isurl/1.0.0:
  resolution: {integrity: sha512-1P/yWsxPIDtn7QeRD+ULKQPaIaN6yF368GZ2vDfv0AL0NwpStafjWCDDdn0k8wgFMWpVAqG7oJhxHnlud42i9w==}
  engines: {node: '>= 4'}
  dependencies:
    has-to-string-tag-x: 1.4.1
    is-object: 1.0.2
  dev: true

/json-buffer/3.0.0:
  resolution: {integrity: sha1-Wx85evx11ne96Lz8Dkfh+aPZqJg=}
  dev: true

/json-buffer/3.0.1:
  resolution: {integrity: sha512-4bV5BfR2mqfQTJm+V5tPPdf+ZpuhiIvTuAB5g8kcrXOZpTT/QwwVRWBywX1ozr6lEuPdbHxwaJlm9G6mI2sfSQ==}
  dev: true

/json-stringify-safe/5.0.1:
  resolution: {integrity: sha1-Epai1Y/UXxmg9s4B1lcB4sc1tus=}
  dev: true

/jsonfile/6.1.0:
  resolution: {integrity: sha512-5dgndWOriYSm5cnYaJNhalLNDKOqFwyDB/rr1E9ZsGciGvKPs8R2xYGCacuf3z6K1YKDz182fd+fY3cn3pMqXQ==}
  dependencies:
    universalify: 2.0.0
  optionalDependencies:
    graceful-fs: 4.2.9
  dev: true

/junk/3.1.0:
  resolution: {integrity: sha512-pBxcB3LFC8QVgdggvZWyeys+hnrNWg4OcZIU/1X59k5jQdLBICsYGRQaz234SqoRLTCgMH00fY0xRJH+F9M

```

```

ETQ==}
  engines: {node: '>=8'}
  dev: true

/keyv/3.0.0:
  resolution: {integrity: sha512-
eguHnq22OE3uVoSYG0LVWNP+4ppamWr9+zWBe1bsNcovIMy6huUJFPgy4mGwCd/rnl3vOLGW1MTlu4c57C
T1xA==}
  dependencies:
    json-buffer: 3.0.0
  dev: true

/keyv/3.1.0:
  resolution: {integrity: sha512-
9ykI/46SN/9KPM/sichzQ7OvXyGDYKGTaDIKMGCAlg2UK8KRy4jb0d8sFc+0Tt0YYnThq8X2RZgCg74RPxgc
VA==}
  dependencies:
    json-buffer: 3.0.0
  dev: true

/keyv/4.0.5:
  resolution: {integrity: sha512-
531pkGLqV3BMg0eDqqJFI0R1mkK1Nm5xIP2mM6keP5P8WfFtCkg2IOwplTUmlGoTgIg9yQYZ/kdihhz89XH3v
A==}
  dependencies:
    json-buffer: 3.0.1
  dev: true

/keur/4.1.4:
  resolution: {integrity: sha512-
8QADVssbrFjivHWQU7KkMgptGTl6WAcSdlbBPY4uNF+mWr6DGcKrvY2w4FQJoXch7+fKMjj0dRrL75vk3k2
3OA==}
  engines: {node: '>=6'}
  dev: true

/latest-version/5.1.0:
  resolution: {integrity: sha512-
weT+r0kTkRQdCdYCNtkMwWXQTMEswKrFBkm4ckQOMVhhqhIMI1UT2hMj+1iigIhgSZm5gTmrRXBNoGU
gaTY1xA==}
  engines: {node: '>=8'}
  dependencies:
    package-json: 6.5.0
  dev: true

/load-json-file/1.1.0:
  resolution: {integrity: sha1-lWkFcI1YtLq0wiYbBPWfMcmTdMA=}
  engines: {node: '>=0.10.0'}
  dependencies:

```


graceful-fs: 4.2.9
parse-json: 2.2.0
pify: 2.3.0
pinkie-promise: 2.0.1
strip-bom: 2.0.0
dev: true

/lodash/4.17.21:
resolution: {integrity: sha512-v2kDEe57lecTulaDiUwNTPy3Ry4gLGJ6Z1O3vE1krgXZNrsQ+LFTGHVxVjcXPs17LhbZVGedAJv8XZ1tvj5FvSg==}
dev: true

/log-symbols/4.1.0:
resolution: {integrity: sha512-8XPvpAA8uyhfteu8pIvQxpJZ7SYYdpUivZpGy6sFsBuKRY/7rQGavedeB8aK+Zkyq6upMFVL/9AW6vOYzfRyLg==}
engines: {node: '>=10'}
dependencies:
 chalk: 4.1.2
 is-unicode-supported: 0.1.0
dev: true

/logalot/2.1.0:
resolution: {integrity: sha1-X46MkNME7fElMJUaVVSruMXj9VI=}
engines: {node: '>=0.10.0'}
dependencies:
 figures: 1.7.0
 squeak: 1.3.0
dev: true

/longest/1.0.1:
resolution: {integrity: sha1-MKCy2jj3N3DoKUoNIuZiXtd9AJc=}
engines: {node: '>=0.10.0'}
dev: true

/loud-rejection/1.6.0:
resolution: {integrity: sha1-W0b4AUft7leICPG0Eghz5mOVR8=}
engines: {node: '>=0.10.0'}
dependencies:
 currently-unhandled: 0.4.1
 signal-exit: 3.0.6
dev: true

/lowercase-keys/1.0.0:
resolution: {integrity: sha1-TjNms55/VFfjXxMkvfb4jQv8cwY=}
engines: {node: '>=0.10.0'}
dev:

true

/lowercase-keys/1.0.1:

resolution: {integrity: sha512-G2Lj61tXDNVFFOi8VZds+SoQjtQC3dgokKdDG2mTm1tx4m50NUHBOZSBwQQHyy0V12A0JTG4icfZQH+xPyh8VA==}
engines: {node: '>=0.10.0'}
dev: true

/lowercase-keys/2.0.0:

resolution: {integrity: sha512-tqNXrS78oMOE73NMxK4EMLQsQowWf8jKooH9g7xPavRT706R6bkQJ6DY2Te7QukaZsulxa30wQ7bk0pm4XiHmA==}
engines: {node: '>=8'}
dev: true

/lpad-align/1.1.2:

resolution: {integrity: sha1-IfYArBwwlcPG5JfuZyce4ISB/p4=}
engines: {node: '>=0.10.0'}
hasBin: true
dependencies:
 get-stdin: 4.0.1
 indent-string: 2.1.0
 longest: 1.0.1
 meow: 3.7.0
dev: true

/lru-cache/4.1.5:

resolution: {integrity: sha512-sWZlbEP2OsHNkXrMI5GYk/jKk70MBng6UU4YI/qGDYbgf6YbP4EvmqISbXCoJiRKs+1bSpFHVgQxvJ17F2li5g==}
dependencies:
 pseudomap: 1.0.2
 yallist: 2.1.2
dev: true

/lru-cache/6.0.0:

resolution: {integrity: sha512-Jo6dJ04CmSjuznwJSS3pUeWmd/H0ffTlkXXgwZi+eq1UCmqQwCh+eLsYOYCwY991i2Fah4h1BEMCx4qThGbsiA==}
engines: {node: '>=10'}
dependencies:
 yallist: 4.0.0
dev: true

/magic-string/0.25.7:

resolution: {integrity: sha512-4CrMT5DOHTDk4HYDlzmwu4FVCCiYI8gauveasrdCu2IKIFOJ3f0v/8MDGJC DL9oD2ppz/Av1b0Nj345H9M+XI

```

A==}
dependencies:
  sourcemap-codec: 1.4.8
dev: true

/make-dir/1.3.0:
  resolution: {integrity: sha512-2w31R7SJtieJJnQtGc7RVL2StM2vGYVfqUOvUDxH6bC6aJTxPxTF0GnIgCyu7tjockiUWAYQRbxa7vKn34s5sQ
==}
  engines: {node: '>=4'}
  dependencies:
    pify: 3.0.0
  dev: true

/make-dir/3.1.0:
  resolution: {integrity: sha512-g3FeP20LNwhALb/6Cz6Dd4F2ngze0jz7tbzrD2wAV+o9FeNHe4rL+yK2md0J/fiSf1sa1ADhXqi5+oVwOM/eGw=
=}
  engines: {node: '>=8'}
  dependencies:
    semver: 6.3.0
  dev: true

/map-obj/1.0.1:
  resolution: {integrity: sha1-2TPOuSBdgr3PSIb2dCvcK03qFG0=}
  engines: {node: '>=0.10.0'}
  dev: true

/matcher/3.0.0:
  resolution: {integrity: sha512-OkeDaAZ/bQCxeFAozM55PKcKU0yJMPGifLwV4Qgjit+5MoAfSQN4lsLJeXZ1b8w0x+/Emda6MZgXS1jvsapn
g==}
  engines: {node: '>=10'}
  dependencies:
    escape-string-regexp: 4.0.0
  dev: true

/meow/3.7.0:
  resolution: {integrity: sha1-cstmi0JSKCKku/qFaJJYcwioAfs=}
  engines: {node: '>=0.10.0'}
  dependencies:
    camelcase-keys: 2.1.0
    decamelize: 1.2.0
    loud-rejection: 1.6.0
    map-obj: 1.0.1
    minimist: 1.2.5
    normalize-package-data: 2.5.0
    object-assign: 4.1.1

```

read-pkg-up: 1.0.1
redent: 1.0.0
trim-newlines: 1.0.0
dev: true

/merge2/1.4.1:

resolution: {integrity: sha512-8q7VEgMJW4J8tcfVPy8g09NcQwZdbwFEqhe/WZkoIzjn/3TGDwtOCYtXGxA3O8tPzpczCCDgv+P2P5y00ZJIOg==}
engines: {node: '>= 8'}
dev: true

/micromatch/4.0.4:

resolution: {integrity: sha512-pRmzw/XUcwXGpD9aI9q/0XOwLNygiETJ8y0ao0wdqprzDa4YnxLcz7fQRZr8voh8V10kGhABbNcHVk5wHgWwg==}
engines: {node: '>=8.6'}
dependencies:
 braces: 3.0.2
 picomatch: 2.3.1
dev: true

/mime-db/1.51.0:

resolution: {integrity: sha512-5y8A56jg7XVQx2mbv1lu49NR4dokRnhZYTtL+KGfaa27uq4pSTXkwQkFJl4pkRMyNFz/EtYDSkiiEHx3F7UN6g==}
engines: {node: '>= 0.6'}
dev: true

/mimic-fn/2.1.0:

resolution: {integrity: sha512-OqbOk5oEQeAZ8WXWydlu9HJjz9WVdEIvamMCcXmuqUYjTknH/sqsWvhQ3vgwKFRR1HpjvNBKQ37nbJgYzGqGcg==}
engines: {node: '>=6'}
dev: true

/mimic-response/1.0.1:

resolution: {integrity: sha512-j5EctnKH7amfV/q5Hgmoal1g2QHFJRraOtmx0JpIqkxhBhI/IJS11nMpQ45hVarwNETOoWEimndZ4QK0RHxuxQ==}
engines: {node: '>=4'}
dev: true

/mimic-response/2.1.0:

resolution: {integrity: sha512-wXqjST+SLt7R009ySCglWBCFpjUygmCIfD790/kVbiGmUgfYGuB14PiTd5DwVxSV4NcYHjzMkoj5LjQZwTQLEA==}

```

engines: {node: '>=8'}
dev: true

/mimic-response/3.1.0:
  resolution: {integrity: sha512-
z0yWI+4FDRrweS8Zmt4Ej5HdJmky15+L2e6Wgn3+iK5fWzb6T3fhNFq2+MeTRb064c6Wr4N/wv0DzQTjNzHNG
Q==}
  engines: {node: '>=10'}
  dev: true

/min-indent/1.0.1:
  resolution: {integrity: sha512-
I9jwMn07Sy/IwOj3zVkVik2JTvghpaykDZEigL6Rx6N9LbMywwUSMtxET+7IVoDLLd3O3IXwJwvuuns8UB/HeA
g==}
  engines: {node: '>=4'}
  dev: true

/minimatch/3.0.4:
  resolution: {integrity: sha512-
yJHVQEhyqPLUTgt9B83PXu6W3rx4MvHvSUvToogpwoGDOUQ+yDrR0HRot+yOCdCO7u4hX3pWft6kWBBc
qh0UA==}
  dependencies:
    brace-expansion: 1.1.11
  dev: true

/minimist/1.2.5:
  resolution: {integrity: sha512-
FM9nNUYrRBAELZQT3xeZQ7fmMOBg6nWNmJKTcgsJeaLstP/UODVpGsr5OhXhhXg6f+qtJ8uiZ+PUxkDWcg
IXLw==}
  dev: true

/mkdirp-classic/0.5.3:
  resolution: {integrity: sha512-
gKLcREMhtuZRwRAfqP3RfW+TK4JqApVBtOIftVgjuABpAtpxhPGaDcfvvhNvD0B8iD1oUr/tX35NjcaY6Ns/A
==}
  dev: true

/mkdirp/0.5.5:
  resolution: {integrity: sha512-
NKmAIESf6jMGym1++R0Ra7wvhV+wFW63FaSOPwRahvea0gMUcGUhVeAg/0BC0wiv9ih5NYPB1Wn1UEI1
/L+xQ==}
  hasBin: true
  dependencies:
    minimist: 1.2.5
  dev: true

/mri/1.2.0:
  resolution: {integrity: sha512-

```

```

tzzskb3bG8LvYGFF/mDTpq3jpI6Q9wc3LEmBaghu+DdCsd1FakN7Bc0hVNmEyGq1bq3RgfkCb3cmQLpNPoro
A==}
  engines:
{node: '>=4'}
  dev: true

/ms/2.1.2:
  resolution: {integrity: sha512-
sGkPx+VjMtmA6MX27oA4FBFELFCZZ4S4XqeGOXCv68tT+jb3vk/RyaKWP0PTKyWtmLSM0b+adUTEvbs1P
EaH2w==}
  dev: true

/ms/2.1.3:
  resolution: {integrity: sha512-
6FlzubTLZG3J2a/NVCAleEhjqz5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WRTIA==
}
  dev: true

/mute-stream/0.0.8:
  resolution: {integrity: sha512-
nnbWWOkoWyUsTjKrhgD0dcz22mdkSnpYqbEjIm2nhwhuxlSkpywJmBo8h0ZqJdkp73mb90SssHkN4rsRaBAfA
A==}
  dev: true

/nanoid/3.2.0:
  resolution: {integrity: sha512-
fmsZY9lpn69Ad5eDn7FMcnnSR+8R34W9qJEijxYhTbfOWzr22n1QxCMzXLK+ODyW2973V3Fux959iQoUxzU
IA==}
  engines: {node: ^10 || ^12 || ^13.7 || ^14 || >=15.0.1}
  hasBin: true
  dev: true

/napi-build-utils/1.0.2:
  resolution: {integrity: sha512-
ONmRUqK7zj7DWX0D9ADe03wbwOBZxNAfF20PIGfCWQcD3+/MakShIHrMqx9YwPTfxDdF1zLeL+RGZiR9
kGMLdg==}
  dev: true

/nice-try/1.0.5:
  resolution: {integrity: sha512-
1nh45deeb5olNY7eX82BkPO7SSxR5SSYJiPTdTdFUVYwAl8CKMA5N9PjTYkHiRjisVcxcQ1HXDLhx2qxxJzLN
Q==}
  dev: true

/node-abi/2.30.1:
  resolution: {integrity: sha512-
/2D0wOQPgaUWzVSVgRMx+trKJRC2UG4SUc4oCJoXx9Uxjtp0Vy3/kt7zcbxHF8+Z/pK3UloLWzBISg72brfy1w
==}

```

dependencies:

semver: 5.7.1

dev: true

/node-addon-api/3.2.1:

resolution: {integrity: sha512-

mmcei9JghVNDYydghQmeDX8KoAm0FAiYyIcUt/N4nhyAipB17pllZQDOJD2fotxABnt4Mdz+dKTO7eftLg4d0A==}

dev: true

/normalize-package-data/2.5.0:

resolution: {integrity: sha512-

/5CMN3T0R4XTj4DcGaexo+roZSdSFW/0AOOTROrjxzCG1wrWXEsGbRKEvjIL+ZDE4sZIJr5ED4YW0yqmkK+eA==}

dependencies:

hosted-git-info: 2.8.9

resolve: 1.22.0

semver: 5.7.1

validate-npm-package-license: 3.0.4

dev: true

/normalize-path/3.0.0:

resolution: {integrity: sha512-

6eZs5Ls3WtCisHWp9S2GUy8dqkpGi4BVSz3GaqiE6ezub0512ESztXUwUB6C6IKbQkY2Pnb/mD4WYojCRwcwLA==}

engines: {node: '>=0.10.0'}

dev: true

/normalize-url/2.0.1:

resolution: {integrity: sha512-

D6MUW4K/VzoJ4rJ01JFKxDrtY1v9wrgzCX5f2qj/lzH1m/1W6MhUZFKerVsnyjOhOsYzI9Kqqak+10l4LvLpMw==}

engines: {node: '>=4'}

dependencies:

prepend-http: 2.0.0

query-string: 5.1.1

sort-keys: 2.0.0

dev: true

/normalize-url/4.5.1:

resolution: {integrity: sha512-

9UZCFRQdNrftPg8+1INlg93B6zE0aXMFkw1WFvWvO4SlZyWU6aLg5Of0Ap/PgcbSw4LNxvMWXMeugwMCX0AA==}

engines: {node: '>=8'}

dev: true

/normalize-url/6.1.0:

resolution: {integrity: sha512-

DIL+XwOy3NxAQ8xuC0okPgK46iuVNAK01YN7RueYBqqFeGsBjV9XmCAzAdgt+667bCl5kPh9EqKKDwnaP
GI17A==}

engines: {node: '>=10'}

dev: true

/npm-conf/1.1.3:

resolution: {integrity: sha512-
Yic4bZHJOt9RCFbRP3GgpqhScOY4HH3V2P8yBj6CeYq118Qr+BLXqT2JvpJ00mryLESpgOxf5XIFv4ZjXxLSc
w==}

engines: {node: '>=4'}

dependencies:

config-chain: 1.1.13

pify: 3.0.0

dev: true

/npm-run-path/2.0.2:

resolution: {integrity: sha1-NakjLfo11wZ7TLLd8jV7GHFTbF8=}

engines: {node: '>=4'}

dependencies:

path-key: 2.0.1

dev: true

/npmlog/4.1.2:

resolution: {integrity: sha512-
2uUqazuKlTaSI/dC8AzicUck7+IrEaOnN/e0jd3Xtt1KcGpwx30v50mL7oPyr/h9bL3E4aZccVwpwP+5W9Vjkg==}

dependencies:

are-we-there-yet: 1.1.7

console-control-strings: 1.1.0

gauge: 2.7.4

set-blocking: 2.0.0

dev: true

/number-is-nan/1.0.1:

resolution: {integrity: sha1-CXtgK1NCKlIsGvuHkDGDNPQaAR0=}

engines: {node: '>=0.10.0'}

dev: true

/object-assign/4.1.1:

resolution: {integrity: sha1-IQmtx5ZYh8/AXLvUQsrIv7s2CGM=}

engines: {node: '>=0.10.0'}

dev: true

/object-keys/1.1.1:

resolution: {integrity: sha512-NuAESUOUMrlIXOfHKzD6bpPu3tYt3xvjdNdRIQ+FeT0lN4K8WR70CaDxhuNguS2XG+GjkyMwOzsN5ZktImf
hLA==}

engines: {node: '>= 0.4'}

dev: true


```

/once/1.4.0:
  resolution: {integrity: sha1-WDsap3WWHUsROsF9nFC6753Xa9E=}
  dependencies:
    wrappy: 1.0.2
  dev: true

/onetime/5.1.2:
  resolution: {integrity: sha512-
kbpasSGJTWdAY5KPVeMOKXSrPtr8C8C7wodJbcsd51jRnmD+GZu8Y0VoU6Dm5Z4vWr0Ig/1NKuWRKf7j5aa
YSg==}
  engines: {node: '>=6'}
  dependencies:
    mimic-fn: 2.1.0
  dev: true

/optipng-bin/7.0.1:
  resolution: {integrity: sha512-
W99mpdW7Nt2PpFiaO+74pkht7KEqkXkeRomdWXfEz3SALZ6hns81y/pm1dsGZ6ItUifchiNIP6ORDr1zETU1jA
==}
  engines: {node: '>=10'}
  hasBin: true
  requiresBuild: true
  dependencies:
    bin-build: 3.0.0
    bin-wrapper: 4.1.0
  dev: true

/ora/5.4.1:
  resolution: {integrity: sha512-
5b6Y85tPxZZ7QytO+BQzysW31HJku27cRIlkbAXaNx+BdcVi+LIRFmVXzeF6a7JCwJpyw5c4b+YSVImQIrBpu
Q==}
  engines: {node: '>=10'}
  dependencies:
    bl: 4.1.0
    chalk: 4.1.2
    cli-cursor: 3.1.0
    cli-spinners: 2.6.1
    is-interactive: 1.0.0
    is-unicode-supported: 0.1.0
    log-symbols: 4.1.0
    strip-ansi: 6.0.1
    wcwidth: 1.0.1
  dev: true

/os-filter-obj/2.0.0:
  resolution: {integrity: sha512-
uksVLsqG3pVdzzPvmAHpBK0wKxYItuzZr7SziusRPoz67tGV8rL1szZ6IdeUrbqLjGDwApBtN29eEE3IqGHOjg=

```

```

=}
  engines: { node: '>=4' }

dependencies:
  arch: 2.2.0
  dev: true

/os-tmpdir/1.0.2:
  resolution: { integrity: sha1-u+Z0BseaqFxc/sdm/lc0VV36EnQ=}
  engines: { node: '>=0.10.0' }
  dev: true

/p-cancelable/0.3.0:
  resolution: { integrity: sha512-RVbZPLso8+jFeq1MfNvgXtCREd2raz/dKpacfTNxxs6pLEpEomM7gah6VeHSYV3+vo0OAi4MkArtQcWWXuQoyw== }
  engines: { node: '>=4' }
  dev: true

/p-cancelable/0.4.1:
  resolution: { integrity: sha512-HNa1A8LvB1kie7cERyy21VNeHb2CWJJYqyyC2o3klWFFmGIFmWv2Z7sFgZH8ZiaYL95ydToKTFVXgMV/Os0bBQ== }
  engines: { node: '>=4' }
  dev: true

/p-cancelable/1.1.0:
  resolution: { integrity: sha512-s73XxOZ4zpt1edZYZZvhqFa6uvQc1vwUa0K0BdtIZgQMAJj9IbebH+JkgKZc9h+B05PKHLOTl4ajG1BmNrVZlW== }
  engines: { node: '>=6' }
  dev: true

/p-cancelable/2.1.1:
  resolution: { integrity: sha512-BZOr3nRQHOntUjTrH8+Lh54smKH0Hyr8We1V8DSMVrl5A2malOOwuJRnKRDjSnkoeBh4at6BwEnb5I7Jl31wg== }
  engines: { node: '>=8' }
  dev: true

/p-event/1.3.0:
  resolution: { integrity: sha1-jmtPT2XHK8W2/ii3XtqHT5akoIU=}
  engines: { node: '>=4' }
  dependencies:
    p-timeout: 1.2.1
  dev: true

/p-event/2.3.1:

```

```

    resolution: {integrity: sha512-
NQCqOFhbpVTMX4qMe8PF8lbGtzZ+LCiN7pcNrb/413Na7+TRoe1xkKUzuWa/YEJdGQ0FvKtj35EEbDoVPO2k
bA==}
    engines: {node: '>=6'}
    dependencies:
      p-timeout: 2.0.1
    dev: true

/p-finally/1.0.0:
  resolution: {integrity: sha1-P7z7FbiZpEEjs0ttzBi3JDNqLK4=}
  engines: {node: '>=4'}
  dev: true

/p-is-promise/1.1.0:
  resolution: {integrity: sha1-nJRWmJ6fZYgBewQ01WCXZ1w9oF4=}
  engines: {node: '>=4'}
  dev: true

/p-map-series/1.0.0:
  resolution: {integrity: sha1-v5j+V1cFZYqeE1G++4WuTB8Hvco=}
  engines: {node: '>=4'}
  dependencies:
    p-reduce: 1.0.0
  dev: true

/p-pipe/4.0.0:
  resolution: {integrity: sha512-
HkPfFklpZQPUKBFXzKFB6ihLriIHxnmuQdK9WmLDwe4hf2PdhhfWT/FJa+pc3bA1yvvKXtedxIRmd4Y7BTXE
4w==}
  engines: {node: '>=12'}
  dev: true

/p-reduce/1.0.0:
  resolution: {integrity: sha1-GMKw3ZNqRpClKfgjH1ig/bakffo=}
  engines: {node: '>=4'}
  dev: true

/p-timeout/1.2.1:
  resolution: {integrity: sha1-XrOzU7f86Z8QGhA4iAuwVOu+o4Y=}
  engines: {node: '>=4'}
  dependencies:
    p-finally: 1.0.0
  dev: true

/p-timeout/2.0.1:
  resolution: {integrity: sha512-
88em58dDVB/KzPEx1X0N3LwFfYZPyDc4B6eF38M1rk9VTZMbxXXgjugz8mmwpS9Ox4BDZ+t6t3QP5+/gazw
eIA==}

```

```

engines: {node: '>=4'}
dependencies:
  p-finally: 1.0.0
dev: true

/p-try/2.2.0:
  resolution: {integrity: sha512-
R4nPAVTAU0B9D35/Gk3uJf/7XYbQcyohSKdvAxIRSNghFl4e71hVoGnBNQz9cWaxXO2I10KTC+3jMdvvoKw
6dQ==}
  engines: {node: '>=6'}
  dev: true

/package-json/6.5.0:
  resolution: {integrity: sha512-
k3bdm2n25tkyxcjSKzB5x8kfVx1MdgsbPr0GkZcwHsLpba6cBjqCt1KlcChKEvxHlcTB1FVMuwoijZ26xex5MQ==
}
  engines: {node: '>=8'}
  dependencies:
    got: 9.6.0
    registry-auth-token: 4.2.1
    registry-url: 5.1.0
    semver: 6.3.0
  dev: true

/parent-module/1.0.1:
  resolution: {integrity: sha512-
GQ2EWRpQV8/o+Aw8YqtfZZPfNRWZYkbidE9k5rpl/hC3vtHHBfGm2Ifi6qWV+coDGkrUKZAxE3Lot5kcsRlh+
g==}
  engines: {node: '>=6'}
  dependencies:
    callsites: 3.1.0
  dev: true

/parse-json/2.2.0:
  resolution: {integrity: sha1-9ID0BDTvgHQfhGkJn43qGPVaTck=}
  engines: {node: '>=0.10.0'}
  dependencies:
    error-ex: 1.3.2
  dev: true

/path-exists/2.1.0:
  resolution: {integrity: sha1-D+tsZPD8UY2adU3V77YscCJ2H0s=}
  engines: {node: '>=0.10.0'}
  dependencies:
    pinkie-promise: 2.0.1
  dev: true

/path-is-absolute/1.0.1:

```

resolution: {integrity: sha1-F0uSaHNVNP+8es5r9TpanhtcX18=}
engines: {node: '>=0.10.0'}
dev: true

/path-key/2.0.1:

resolution: {integrity: sha1-QRyttXTFoUDTpLGRDUDYDMn0C0A=}
engines: {node: '>=4'}
dev: true

/path-key/3.1.1:

resolution: {integrity: sha512-ojmeN0qd+y0jszEtoY48r0Peq5dwMEkIICOu6Q5f41lfkswXuKtYrhgoTpLnyIcHm24Uhqx+5Tqm2InSwLhE6Q==}
engines: {node: '>=8'}
dev: true

/path-parse/1.0.7:

resolution: {integrity: sha512-LDJzPVEEEPR+y48z93A0Ed0yXb8pABYGWo/k5YYdYgpY2/2EsOskJrq7lOHxryrVOn1ejG6oAp8ahvOIQD8sw==}
dev: true

/path-type/1.1.0:

resolution: {integrity: sha1-WcRPfuSR2nBNpBXaWkBwuk+P5EE=}
engines: {node: '>=0.10.0'}
dependencies:
 graceful-fs: 4.2.9
 pify: 2.3.0
 pinkie-promise: 2.0.1
dev: true

/path-type/4.0.0:

resolution: {integrity: sha512-gDKb8aZMDed/tZW59P6+q0J9Mwkdl6xMV8TjnGP3qJVJ06bdMgkbBILU8IdfOsIsFz2BW1rNVT3XuNEl8zPAvw==}
engines: {node: '>=8'}
dev: true

/peek-readable/4.0.2:

resolution: {integrity: sha512-9fMaz6zoxw9ypO1KZy5RDJgSupEtu0Q+g/OqqsvHX3rKGR8qehRLYzsFARZ4bVvdvfknKiXvuDbkMnO1g6cRpQ==}
engines: {node: '>=8'}
dev: true

/pend/1.2.0:

resolution: {integrity: sha1-elfrVQpng/kRUzH89GY9XI4AelA=}

```

dev: true

/picocolors/1.0.0:
  resolution: {integrity: sha512-
1fygroTLiHu66zi26VoTDv8yRgm0Fccecssto+MhsZ0D/DGW2sm8E8AjW7NU5VVTRt5GxbeZ5qBuJr+HyLYkjQ
==}
  dev: true

/picomatch/2.3.1:
  resolution: {integrity: sha512-
JU3teHTNjmE2VCGFzuY8EXzCDVwEqB2a8fsIvwaStHhAWJEEvd1o1QD80CU6+ZdEXXSLbSsuLwJjkCBWq
RQUVA==}
  engines: {node: '>=8.6'}
  dev: true

/pify/2.3.0:
  resolution: {integrity: sha1-7RQaasBDqEnqWISY59yosVMw6Qw=}
  engines: {node: '>=0.10.0'}
  dev: true

/pify/3.0.0:
  resolution: {integrity: sha1-5aSs0sEB/fPZpNB/DbxNtJ3SgXY=}
  engines: {node: '>=4'}
  dev: true

/pify/4.0.1:
  resolution: {integrity: sha512-
uB80kBFb/tfd68bVleG9T5GGsGPjJrLAUpR5PZIrHbNlaRTQRjqdJSsIKkOP6OAIFbj7GOrcudc5pNjZ+geV2g==}
  engines: {node: '>=6'}
  dev: true

/pinkie-promise/2.0.1:
  resolution: {integrity: sha1-ITXW36ejWMBprJsXh3YogihFD/o=}
  engines: {node: '>=0.10.0'}
  dependencies:
    pinkie: 2.0.4
  dev: true

/pinkie/2.0.4:
  resolution: {integrity: sha1-clVrgM+g1IqXToDnckjoDtT3+HA=}
  engines: {node: '>=0.10.0'}
  dev: true

/png2icons/2.0.1:
  resolution: {integrity: sha512-
GDEQJr8OG4e6JM7mABtXFSEpgJa1CCpbQiAR+EjkhHJHnUL9zPPtbOrjsMD8gUbikgv3j7x404b0YJsV3aVF
A==}

```

hasBin: true

dev: true

/postcss/8.4.5:

resolution: {integrity: sha512-jBDboWM8qpaqwkMwItqTQTiFikhs/67OYVvblFFTM7MrZjt6yMKd6r2kgXizEbTTljacm4NldlIZnhbjr84QYg==
}

engines: {node: ^10 || ^12 || >=14}

dependencies:

nanoid: 3.2.0

picocolors: 1.0.0

source-map-js: 1.0.2

dev: true

/prebuild-install/6.1.4:

resolution: {integrity: sha512-Z4vpywnK1lBg+zdPCVCsKq0xO66eEV9rWo2zrROGGiRS4JtueBOdlB1FnY8lcy7JsUud/Q3ijUxyWN26Ika0vQ=
=}

engines: {node: '>=6'}

hasBin: true

dependencies:

detect-libc: 1.0.3

expand-template: 2.0.3

github-from-package: 0.0.0

minimist: 1.2.5

mkdirp-classic: 0.5.3

napi-build-utils: 1.0.2

node-abi: 2.30.1

npmlog: 4.1.2

pump: 3.0.0

rc: 1.2.8

simple-get: 3.1.0

tar-fs: 2.1.1

tunnel-agent: 0.6.0

dev: true

/prepend-http/1.0.4:

resolution: {integrity: sha1-1PRWKwzjaW5BrFLQ4ALlemNdxtw=}

engines:

{node: '>=0.10.0'}

dev: true

/prepend-http/2.0.0:

resolution: {integrity: sha1-6SQ0v6XqjBn0HN/UAddBo8gZ2Jc=}

engines: {node: '>=4'}

dev: true

/process-nextick-args/2.0.1:

```

    resolution: {integrity: sha512-
3ouUOpQhtgrbOa17J7+uxOTpITYWaGP7/AhoR3+A+/1e9skrzelGi/dXzEYyvbubEF6Wn2ypscTKiKJFFn1ag==}
    dev: true

/proto-list/1.2.4:
    resolution: {integrity: sha1-IS1b/hMYMGpCD2QCuOJv85ZHqEk=}
    dev: true

/pseudomap/1.0.2:
    resolution: {integrity: sha1-8FKijacOYYkX7wqKw0wa5aaChrM=}
    dev: true

/pump/3.0.0:
    resolution: {integrity: sha512-
LwZy+p3SFs1Pytd/jYct4wpv49HiYCqd9Rlc5ZVdk0V+8Yzv6jR5Blk3TRmPL1ft69TxP0IMZGJ+WPFU2BFhww
==}
    dependencies:
      end-of-stream: 1.4.4
      once: 1.4.0
    dev: true

/pupa/2.1.1:
    resolution: {integrity: sha512-
1ljNAspIBSFqbT+y+5FosojNpVpF94nII+wDUpqP9enwOTfHx9f0gh5nB96v1+6yTpsJsypeNrwfzPrKuHB41A==}
    engines: {node: '>=8'}
    dependencies:
      escape-goat: 2.1.1
    dev: true

/query-string/5.1.1:
    resolution: {integrity: sha512-
gjWOsm2SoGlgLEdAGt7a6slVOk9mGiXmPFMqRtEhLQ68rhQuBnpfs3+EmlvqKyxnCo9/PPIF+9MtY02S1aFg+Jw
==}
    engines: {node: '>=0.10.0'}
    dependencies:
      decode-uri-component: 0.2.0
      object-assign: 4.1.1
      strict-uri-encode: 1.1.0
    dev: true

/queue-microtask/1.2.3:
    resolution: {integrity: sha512-
NuaNSa6fIKT5JaSYQzJok04JzTL1CA6aGhv5rfLW3PgqA+M2ChpZQnAC8h8i4ZFkBS8X5RqkDBHA7r4hej3K9
A==}
    dev: true

/quick-lru/5.1.1:

```



```

    resolution: {integrity: sha512-
WuyALRjWPDGtt/wzJiadO5AXY+8hZ80hVpe6MyivgraREW751X3SbhRvG3eLKOYN+8VEvqLcf3wdnt44Z4S4
SA==}
    engines: {node: '>=10'}
    dev: true

/rc/1.2.8:
  resolution: {integrity: sha512-
y3bGgqKj3QBdxLbLkomlohkvsA8gdAiUQlSBjNBhfn+BPxg4bc62d8TcBW15wavDfgexCgcccckhcZvywyQYPOw
==}
  hasBin: true
  dependencies:
    deep-extend: 0.6.0
    ini: 1.3.8
    minimist: 1.2.5
    strip-json-comments: 2.0.1
  dev: true

/read-chunk/3.2.0:
  resolution: {integrity: sha512-
CEjy9LCzhmD7nUpJ1oVOE6s/hBkejlcJEgLQHVNQznOSilOPb+kpKktLfFDK3/WP43+F80xkUTM2VOKYoSYv
Q==}
  engines: {node: '>=6'}
  dependencies:
    pify: 4.0.1
    with-open-file: 0.1.7
  dev: true

/read-pkg-up/1.0.1:
  resolution: {integrity: sha1-nWPBMnbAZZGNV/ACpX9AobZD+wI=}
  engines: {node: '>=0.10.0'}
  dependencies:
    find-up: 1.1.2
    read-pkg: 1.1.0
  dev: true

/read-pkg/1.1.0:
  resolution: {integrity: sha1-9f+qXs0pyzHAR0vKfXVra7KePyg=}
  engines: {node: '>=0.10.0'}
  dependencies:
    load-json-file: 1.1.0
    normalize-package-data: 2.5.0
    path-type: 1.1.0
  dev: true

/readable-stream/2.3.7:
  resolution: {integrity: sha512-
Ebho8K4jIbHAXnuxi7o42OrZgF/ZTNcsZj6nRKyUmkhLFq8CHItp/fy6hQZuZmP/n3yZ9VBUbp4zz/mX8hmYPw=

```

```
=}
dependencies:
  core-util-is: 1.0.3
  inherits: 2.0.4
  isarray: 1.0.0
  process-nextick-args: 2.0.1
  safe-buffer: 5.1.2
  string_decoder: 1.1.1
  util-deprecate: 1.0.2
dev: true

/readable-stream/3.6.0:
  resolution:
    {integrity: sha512-BViHy7LKeTz4oNnkcLJ+IVSL6vpiFeX6/d3oSH8zCW7UxP2onchk+vTGB143xuFjHS3deTgkKoXXymXqymiId
A==}
  engines: {node: '>= 6'}
  dependencies:
    inherits: 2.0.4
    string_decoder: 1.3.0
    util-deprecate: 1.0.2
dev: true

/readable-web-to-node-stream/3.0.2:
  resolution: {integrity: sha512-ePeK6cc1EcKLEhJFt/AebMCLL+GgSKhuygrZ/GLaKZYEecIgIECf4UaUuaByiGtzckwR4ain9VzUh95T1exYGw
==}
  engines: {node: '>=8'}
  dependencies:
    readable-stream: 3.6.0
dev: true

/readdirp/3.6.0:
  resolution: {integrity: sha512-eOSa0m05m0aefgDwtYY12+JzN1OIMJ6XrleUyFpUC6F7H9xviSv8rHJm6H1pqS31V2e29WlXmx2Zb2rj8A=
=}
  engines: {node: '>=8.10.0'}
  dependencies:
    picomatch: 2.3.1
dev: true

/redent/1.0.0:
  resolution: {integrity: sha1-z5FqsflfHxbfsoggi3W7H9zDCr94=}
  engines: {node: '>=0.10.0'}
  dependencies:
    indent-string: 2.1.0
    strip-indent: 1.0.1
dev: true
```

```

/registry-auth-token/4.2.1:
  resolution: {integrity: sha512-
6gkSb4U6aWJB4SF2ZvLb76yCBjcvufXBqvEx1HbmKPkutswjW1xNVRy0+daljIYRbogN7O0etYSlbiaEQyMy
w==}
  engines: {node: '>=6.0.0'}
  dependencies:
    rc: 1.2.8
  dev: true

/registry-url/5.1.0:
  resolution: {integrity: sha512-
8acYXXTI0AkQv6RAOjE3vOaIXZkT9wo4LOfbBKYYEEEnnMNBpKqdUrI6S4NT0KPIo/WVvJ5tE/X5LF/TQUf
0ekw==}
  engines: {node: '>=8'}
  dependencies:
    rc: 1.2.8
  dev: true

/repeating/2.0.1:
  resolution: {integrity: sha1-UhTFOpJtNVJwdSf7q0FdvAjQbdo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-finite: 1.1.0
  dev: true

/replace-ext/2.0.0:
  resolution: {integrity: sha512-
UszKE5KVK6JvyD92nzMn9cDapSk6w/CaFZ96CnmDMUqH9oowfxF/ZjRITD25H4DnOQCILA4/j7jLGXXLVK
xAug==}
  engines: {node: '>= 10'}
  dev: true

/resolve-alpn/1.2.1:
  resolution: {integrity: sha512-
0a1F4l73/ZFZOakJnQ3FvkJ2+gSTQWz/r2KE5OdDY0TxPm5h4GkqkWWfM47T7HsbnOtcJVEF4epCVy6u7Q3K
+g==}
  dev: true

/resolve-from/4.0.0:
  resolution: {integrity: sha512-
pb/MYmXstAkysRFx8piNI1tGFNQIFA3vkE3Gq4EuA1dF6gHp/+vgZqsCGJapvy8N3Q+4o7FwvquPJcnZ7RYy4g
==}
  engines: {node: '>=4'}
  dev: true

/resolve/1.22.0:
  resolution: {integrity: sha512-

```

Hhtrw0nLeSrFQ7phPp4OOcVjLPleMnRlr5mcnVuMe7M/7eBn98A3hmFRLofFo3DLZkivSYwhRUJTyPyWak56
WLw==}

hasBin: true

dependencies:

- is-core-module: 2.8.1
- path-parse: 1.0.7
- supports-preserve-symlinks-flag: 1.0.0

dev: true

/responselike/1.0.2:

resolution: {integrity: sha1-kYcg7ztjHFZCvgaPFa3lpG9Loec=}

dependencies:

- lowercase-keys: 1.0.1

dev: true

/responselike/2.0.0:

resolution: {integrity: sha512-xH48u3FTB9VsZw7R+vvgaKeLKzT6jOogbQhEe/jewwnZgzPcnyWui2Av6JpoYZF/91uueC+lqhWqeURw5/qhCw==}

dependencies:

- lowercase-keys: 2.0.0

dev: true

/restore-cursor/3.1.0:

resolution: {integrity: sha512-1+sSefzHpj5qimhfSE5a8nufZYAM3sBSVMApTYkmC+4EH2anSGaEMXSD0izRQbu9nfyQ9y5JrVmp7E8oZrUjvA==}

engines: {node: '>=8'}

dependencies:

- onetime: 5.1.2
- signal-exit: 3.0.6

dev: true

/reusify/1.0.4:

resolution: {integrity: sha512-U9nH88a3fc/ekCF110/UP1IosiuIjyTh7hBvXVMHYgVcfGvt897Xguj2UOLDeI5BG2m7/uwyaLVT6fbtCwTyzw==}

engines: {iojs: '>=1.0.0', node: '>=0.10.0'}

dev: true

/rimraf/2.7.1:

resolution: {integrity: sha512-uWjbaKIK3T1OSVptzX7Nl6PvQ3qAGtKEtVRjRuazjfl3Bx5eI409VZSqqND+4UNnmzLVdPj9FqFJNPqBZFve4w==}

hasBin: true

dependencies:

- glob: 7.2.0

dev: true

/roarr/2.15.4:
resolution: {integrity: sha512-CHhPh+UNHD2GTXNYhPWLnU8ONHdI+5DI+4EYIAOaiD63rHeYlZvyh8P+in5999TTSFgUYuKUAjzRI4mdh/p+2A==}
engines: {node: '>=8.0'}
dependencies:
 boolean: 3.1.4
 detect-node: 2.1.0
 globalthis: 1.0.2
 json-stringify-safe: 5.0.1
 semver-compare: 1.0.0
 sprintf-js: 1.1.2
dev: true

/rollup/2.66.1:
resolution: {integrity: sha512-crSgLhSkLMnKr4s9iZ/1qJCplgAgrRY+igWv8KhG/AjKOJ0YX/WpmANyn8oxrw+zenF3BXWDL7Xl/QZISH+7w==}
engines: {node: '>=10.0.0'}
hasBin: true
optionalDependencies:
 fsevents: 2.3.2
dev: true

/run-async/2.4.1:
resolution: {integrity: sha512-tvVnVv01b8c1RrA6Ep7JkStj85Guv/YrMcwqYQnwjsAS2cTmmPGBBjAjpCW7RrSodNSoE2/qg9O4bceNvUuDgQ==}
engines: {node: '>=0.12.0'}
dev: true

/run-parallel/1.2.0:
resolution: {integrity: sha512-514VyZR86LZ/1DxZTR6jqL8AFE2S0IFLMP26AbjsLVADxHdhB/c0GUsH+y39UfCi3dzz8OlQuPmnaJOMoDHQBA==}
dependencies:
 queue-microtask: 1.2.3
dev: true

/rxjs/7.5.2:
resolution: {integrity: sha512-PwDt186XaL3QN5qXj/H9DGyHhP3/RYYgZZwqBv9Tv8rsAaiwFH1IsJJlcgD37J7UW5a6O67qX0KWKS3/pu0m4w==}
dependencies:
 tslib: 2.3.1
dev: true

```

/sade/1.8.1:
  resolution: {integrity: sha512-
xal3CZX1Xlo/k4ApwCFrHVACi9fBqJ7V+mwhBsuf/1IOKbBy098Fex+Wa/5QMubw09pSZ/u8EY8PWgevJsXp1
A==}
  engines: {node: '>=6'}
  dependencies:
    mri: 1.2.0
  dev: true

/safe-buffer/5.1.2:
  resolution: {integrity: sha512-
Gd2UZBJDkXlY7GbJxfsE8/nvKkUEU1G38c1siN6QP6a9PT9MmHB8GnpScSmMJSofF8LOIrt8ud/wPtojys4G6+g
==}
  dev: true

/safe-buffer/5.2.1:
  resolution: {integrity: sha512-
rp3So07KcdmmKbGvgaNxQsJr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuCXmpuYv
mCXQ==}
  dev: true

/safer-buffer/2.1.2:
  resolution: {integrity: sha512-
YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg=
=}
  dev: true

/sander/0.5.1:
  resolution: {integrity: sha1-dB4kXiMfB8r7b98PEzrfohalAq0=}
  dependencies:
    es6-promise: 3.3.1
    graceful-fs: 4.2.9
    mkdirp: 0.5.5
    rimraf: 2.7.1
  dev: true

/seek-bzip/1.0.6:
  resolution: {integrity: sha512-
e1QtP3YL5tWww8uKaOCQ18UxIT2laNBXHjV/S2WYCiK4udiv8lkG89KRIOcJUagnAmCBurjF4zEVX2ByBbnC
jQ==}
  hasBin: true
  dependencies:
    commander: 2.20.3
  dev: true

/semver-compare/1.0.0:
  resolution: {integrity: sha1-De4hahyUGrN+nvsXiPavxf9VN/w=}
  dev: true

```

```

/semver-diff/3.1.1:
  resolution: {integrity: sha512-
GX0Ix/CJcHyB8c4ykpHGIAvLyOwOobtM/8d+TQkAd81/bEjgPHrfba41Vpesr7jX/t8Uh+R3EX9eAS5be+jQYg==
}
  engines: {node: '>=8'}
  dependencies:
    semver: 6.3.0
  dev: true

/semver-regex/2.0.0:
  resolution: {integrity: sha512-
mUdIBBvdn0PLOeP3TEkMH7HHeUP3GjsXCwKarjv/kGmUFOYg1VqEemKhoQpWMu6X2I8kHeuVdGibLGkV
K+/5Qw==}
  engines: {node: '>=6'}
  dev: true

/semver-truncate/1.1.2:
  resolution: {integrity: sha1-V/Qd5pcHpicJp+AQs6IRcQnqR+g=}
  engines: {node: '>=0.10.0'}
  dependencies:
    semver: 5.7.1
  dev: true

/semver/5.7.1:
  resolution: {integrity: sha512-
sauaDf/PZdVgrLTNYHRtpXa1iRiKcaebiKQ1BJdpQlWH2lCvexQdX55snPFyK7QzpuDqbCI0qXFfOasHdyNDGQ
==}
  hasBin: true
  dev: true

/semver/6.3.0:
  resolution: {integrity: sha512-
b39TBaTSfV6yBrapU89p5fKekE2m/NwnDocOVruQFS1/veMgdzuPcnOM34M6CwxW8jH/lxEa5rBoDeUwu5HH
Tw==}
  hasBin: true
  dev: true

/semver/7.3.5:
  resolution: {integrity: sha512-
PoeGJYh8HK4BTO/a9Tf6ZG3veo/A7ZVsYrSA6J8ny9nb3B1VrpkuN+z9OE5wfeE5p6H4LchYZsegiQgbJD94ZfQ
==}
  engines: {node: '>=10'}
  hasBin: true
  dependencies:
    lru-cache: 6.0.0
  dev: true

```

```

/serialize-error/7.0.1:
  resolution: {integrity: sha512-
8I8TjW5KMOKsZQTvoxjuSIa7foAwPWGOts+6o7sgjz41/qMD9VQHEDxi6PBvK2l0MXUmqZyNpUK+T2tQaaE
lvw==}
  engines: {node: '>=10'}
  dependencies:
    type-fest: 0.13.1
  dev: true

/set-blocking/2.0.0:
  resolution: {integrity: sha1-BF+XgtARrppoA93TgrJDkrPYkPc=}
  dev: true

/sharp/0.28.3:
  resolution: {integrity: sha512-
21GEP45Rmr7q2qcmdnjDkNP04Ooh5v0laGS5FDpojOO84D1DJwUijLiSq8XNNM6e8aGXYtoYRh3sVNdm8Nod
MA==}
  engines: {node: '>=10'}
  requiresBuild: true
  dependencies:
    color: 3.2.1
    detect-libc: 1.0.3
    node-addon-api: 3.2.1
    prebuild-install: 6.1.4
    semver: 7.3.5
    simple-get: 3.1.0
    tar-fs: 2.1.1
    tunnel-agent: 0.6.0
  dev: true

/shebang-command/1.2.0:
  resolution: {integrity: sha1-RKrGW2lbAzmJaMOfNj/uXer98eo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    shebang-regex: 1.0.0
  dev: true

/shebang-command/2.0.0:
  resolution: {integrity: sha512-
kHxr2zZpYtdmrN1qDjrrX/Z1rR1kG8Dx+gkpK1G4eXmvXswmcE1hTWBWWYUzlraYw1/yZp6YuDY77YtvbN0d
mDA==}
  engines: {node: '>=8'}
  dependencies:
    shebang-regex: 3.0.0
  dev: true

/shebang-regex/1.0.0:
  resolution: {integrity: sha1-2kL0l0DAAtC2yypcoVxyxkMmO/qM=}

```



```

engines: {node: '>=0.10.0'}
dev: true

/shebang-regex/3.0.0:
  resolution: {integrity: sha512-
7++dFhtcx3353uBaq8DDR4NuxBetBzC7ZQOhmTQInHEd6bSrXdiEyzCvG07Z44UYdLShWUyXt5M/yhz8ekcb1
A==}
  engines: {node: '>=8'}
  dev: true

/signal-exit/3.0.6:
  resolution: {integrity: sha512-
sDI4qMFpijcGw22U5w63KmD3cZJfBuFlVNbVMKje2keoKML7X2UzWbc4XrmEbDwg0NXJc3yv4/ox7b+JWb5
7kQ==}
  dev: true

/simple-concat/1.0.1:
  resolution: {integrity: sha512-
cSFtAPtRhIjv69IK0hTVZQ+OfE9nePi/rtJmw5UjHeVyVroEqJXP1sFztKUy1qU+xxv3u/sfYJLa947b7nAN2Q==}
  dev: true

/simple-get/3.1.0:
  resolution: {integrity: sha512-
bCR6cP+aTdScaQCnQKbPKtJOKDp/hj9EDLJo3Nw4y1QksqaovlW/bnptB6/c1e+qmNIDHRK+oXFDdEqBT8Wz
UA==}
  dependencies:
    decompress-response: 4.2.1
    once: 1.4.0
    simple-concat: 1.0.1
  dev: true

/simple-swizzle/0.2.2:
  resolution: {integrity: sha1-pNprY1/8zMoz9w0Xy5JZLeleVXo=}
  dependencies:
    is-arrayish: 0.3.2
  dev: true

/slash/3.0.0:
  resolution: {integrity: sha512-
g9Q1haeby36OSStwb4ntCGGgAKsaVSjQ68fBxoQcutl5fS1vuY18H3wSt3jFyFtrkx+Kz0V1G85A4MyAdDMi2Q=
=}
  engines: {node: '>=8'}
  dev: true

/slash/4.0.0:
  resolution: {integrity: sha512-
3dOsAHXXUkQTpOYcoAxLIorMTp4gIQR5IW3iVb7A7lFIp0VHhnynm9izx6TssdrIcVIESAIVjtnO2K8bg+Coew
==}

```

```

engines: {node: '>=12'}
dev: true

/sorcery/0.10.0:
  resolution: {integrity: sha1-iukK19fLBfxZ8asMY3hF1cFaUrc=}
  hasBin: true
  dependencies:
    buffer-crc32: 0.2.13
    minimist: 1.2.5
    sander: 0.5.1
    sourcemap-codec: 1.4.8
  dev: true

/sort-keys-length/1.0.1:
  resolution: {integrity: sha1-nLb09OnkgVWmqgZx7dM2/xR5oYg=}
  engines: {node: '>=0.10.0'}
  dependencies:
    sort-keys: 1.1.2
  dev: true

/sort-keys/1.1.2:
  resolution: {integrity: sha1-RBttTTRnmPG05J6JIK37oOVD+a0=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/sort-keys/2.0.0:
  resolution: {integrity: sha1-ZYU1WEhh7JfXMNbPQYIuH1ZoQSg=}
  engines: {node: '>=4'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/source-map-js/1.0.2:
  resolution: {integrity: sha512-R0XvVJ9WusLiqTCEiGCMiCCMplcCkIwwR11mOSD9CR5u+IXYdiseeEuXCVAjS54zqwkLcPNnmU4OeJ6tUrWhDw==}
  engines: {node: '>=0.10.0'}
  dev: true

/source-map/0.7.3:
  resolution: {integrity: sha512-baF+zSb5YIxuRZBqlJkVw366O40Jg5v7zODIw3wSBBk1jYS6hN6VS697ZUE5j6Vtt97XoVw7z6LpE2dYg==}
  engines: {node: '>= 8'}
  dev: true

```

```

/sourcemap-codec/1.4.8:
  resolution: {integrity: sha512-
9NykojV5Uih4lgo5So5dtw+f0JgJX30KCNI8gwhz2J9A15wD0Ml6tjHKwf6fTSa6fAdVBdZeNOs9eJ71qCk8vA==
}
  dev: true

/spdx-correct/3.1.1:
  resolution: {integrity:
sha512-
cOYcUWwhCuHCXi49RhFRCyJEK3iPj1Ziz9DpViV3tbZOwXD49QzIN3MpOLJNxb2qww2IJJZaKMVw9qNi4jT
C0w==}
  dependencies:
    spdx-expression-parse: 3.0.1
    spdx-license-ids: 3.0.11
  dev: true

/spdx-exceptions/2.3.0:
  resolution: {integrity: sha512-
/tTrYOC7PPI1nUAgx34hUpqXuyJG+DTHJTnIULG4rDygi4xu/tfgmq1e1cIRwRzwZgo4NLySi+ricLkZkw4i5A==
}
  dev: true

/spdx-expression-parse/3.0.1:
  resolution: {integrity: sha512-
cbqHunsQWnJNE6KhVSMsMeH5H/L9EpymbzqTQ3uLwNCLZ1Q481oWaofqH7nO6V07xlXwY6PhQdQ2IedWx
/ZK4Q==}
  dependencies:
    spdx-exceptions: 2.3.0
    spdx-license-ids: 3.0.11
  dev: true

/spdx-license-ids/3.0.11:
  resolution: {integrity: sha512-
Ct12BrFiM0X3MANYgj3CkygxhRmr9mi6xhejbdO960nF6EDJApTYpn0BQnDKlnNBULKiCN1n3w9EBkHK8Z
Wg+g==}
  dev: true

/sprintf-js/1.1.2:
  resolution: {integrity: sha512-
VE0SOVEHCK7Qc8ulkWw3ntAzXuqf7S2lvwQaDLRnUeIEaKNQJzV6BwmLKhOqT61aGhfUMrXeaBk+oDGCz
vhcug==}
  dev: true

/squeak/1.3.0:
  resolution: {integrity: sha1-MwRQN7ZDiLVnZ0uEMipIIQc5FsM=}
  engines: {node: '>=0.10.0'}
  dependencies:
    chalk: 1.1.3

```

```

    console-stream: 0.1.1
    lpad-align: 1.1.2
    dev: true

/strict-uri-encode/1.1.0:
  resolution: {integrity: sha1-J5siXfHVgrH1TmWt3UNS4Y+qBxM=}
  engines: {node: '>=0.10.0'}
  dev: true

/string-width/1.0.2:
  resolution: {integrity: sha1-EYvfW4zcUaKn5w0hHgfsLmxB9M=}
  engines: {node: '>=0.10.0'}
  dependencies:
    code-point-at: 1.1.0
    is-fullwidth-code-point: 1.0.0
    strip-ansi: 3.0.1
  dev: true

/string-width/4.2.3:
  resolution: {integrity: sha512-
wKyQRQpjJ0sIp62ErSZdGsjMJWsap5oRNihHhu6G7JVO/9jIB6UyevL+tXuOqrng8j/cxKTW
yWUwvSTriiZz/g==
}
  engines: {node: '>=8'}
  dependencies:
    emoji-regex: 8.0.0
    is-fullwidth-code-point: 3.0.0
    strip-ansi: 6.0.1
  dev: true

/string_decoder/1.1.1:
  resolution: {integrity: sha512-
n/ShnvDi6FHbbVfviro+WojiFzv+s8MPMHBczVePfUpDJLwoLT0ht114YwBCbi8pJAveEE
dnkHyPyTP/mzRfwg=
=}
  dependencies:
    safe-buffer: 5.1.2
  dev: true

/string_decoder/1.3.0:
  resolution: {integrity: sha512-
hkRX8U1WjJFd8LsDJ2yQ/wWWxaopEsABU1XfkM8A+j0+85JAGppt16cr1Whg6Klbb4okU6Mql6BOj+uup/wKe
A==}
  dependencies:
    safe-buffer: 5.2.1
  dev: true

/strip-ansi/3.0.1:
  resolution: {integrity: sha1-ajhfuIU9IS1f8F0OiQ+UJ43GPc8=}

```

```

engines: {node: '>=0.10.0'}
dependencies:
  ansi-regex: 2.1.1
dev: true

/strip-ansi/6.0.1:
  resolution: {integrity: sha512-
Y38VPSHcqkFrCpFnQ9vuSXmquuv5oXOKpGeT6aGrr3o3Gc9AlVa6JBfUSOCnbxGGZF+/0ooI7KrPuUSztUdU5
A==}
  engines: {node: '>=8'}
  dependencies:
    ansi-regex: 5.0.1
  dev: true

/strip-bom/2.0.0:
  resolution: {integrity: sha1-YhmoVhZSBJHzV4i9vxRHqZx+aw4=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-utf8: 0.2.1
  dev: true

/strip-dirs/2.1.0:
  resolution: {integrity: sha512-
JOCxOeKLM2CAS73y/U4ZeZPTkE+gNVCzKt7Eox84Iej1LT/2pTWYpZKJuxwQpvX1LiZb1xokNR7RLfuBAa7
T3g==}
  dependencies:
    is-natural-number:
4.0.1
  dev: true

/strip-eof/1.0.0:
  resolution: {integrity: sha1-u0P/VZim6wXYm1n80SnJgzE2Br8=}
  engines: {node: '>=0.10.0'}
  dev: true

/strip-indent/1.0.1:
  resolution: {integrity: sha1-DHlipq3vp7vUrDZkYKY4VSrhoKI=}
  engines: {node: '>=0.10.0'}
  hasBin: true
  dependencies:
    get-stdin: 4.0.1
  dev: true

/strip-indent/3.0.0:
  resolution: {integrity: sha512-
laJTa3Jb+VQpaC6DseHhF7dXVqHTfJPCRDaeBid/drOhgitgYku/letMUqOXFoWV0zIIUbjpdH2t+tYj4bQMRQ==
}
  engines: {node: '>=8'}

```

dependencies:

min-indent: 1.0.1

dev: true

/strip-json-comments/2.0.1:

resolution: {integrity: sha1-PFMZQukIwml8DsNEhYwobHygpggo=}

engines: {node: '>=0.10.0'}

dev: true

/strip-outer/1.0.1:

resolution: {integrity: sha512-k55yxKHwaXnpYGsOzg4Vl8+tDrWylxDEpknGjhTiZB8dFRU5rTo9CAzeycivxV3s+zlTKwrs6WxMxR95n26kwg==}

engines: {node: '>=0.10.0'}

dependencies:

escape-string-regexp: 1.0.5

dev: true

/strtok3/6.2.4:

resolution: {integrity: sha512-GO8lcFF9GmFDvqduIspUBwCzCbqzegyVKIsSymcMgiZKeCfrN9SowtUoi8+b59WZMAjIzVZic/Ft97+pynR3Iw==}

engines: {node: '>=10'}

dependencies:

'@tokenizer/token': 0.3.0

peek-readable: 4.0.2

dev: true

/supports-color/2.0.0:

resolution: {integrity: sha1-U10EXoa2Nj+kARcIRimZXp3zJMc=}

engines: {node: '>=0.8.0'}

dev: true

/supports-color/7.2.0:

resolution: {integrity: sha512-qPCAyRl9stuOHveKsn7HncJRvv501qIacKzQIO/+Lwxc9+0q2wLyv4Dfvt80/DpN2pqOBsJdDiogXGR9+OvwRw==}

engines: {node: '>=8'}

dependencies:

has-flag: 4.0.0

dev: true

/supports-preserve-symlinks-flag/1.0.0:

resolution: {integrity: sha512-ot0WnXS9fgdkgIcePe6RHNk1WA8+muPa6cSjeR3V8K27q9BB1rTE3R1p7Hv0z1ZyAc8s6Vvv8DIyWf681MAtoW==}

engines: {node: '>= 0.4'}

dev: true

/svelte-check/2.3.0_svelte@3.46.3:

resolution: {integrity: sha512-

SBKdJyUmxxPmJf/ZPqDSQOoa9JzOcgEpV7u3UaYcgVn7fA0veZ3FA5JgLU8KYtf84Gp6guBVcrC7XKLjJa5SX

Q==}

hasBin: true

peerDependencies:

svelte: ^3.24.0

dependencies:

chokidar: 3.5.3

fast-glob: 3.2.11

import-fresh: 3.3.0

minimist: 1.2.5

picocolors: 1.0.0

sade: 1.8.1

source-map: 0.7.3

svelte: 3.46.3

svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5

typescript: 4.5.5

transitivePeerDependencies:

- '@babel/core'

- coffeescript

- less

- node-sass

- postcss

- postcss-load-config

- pug

- sass

- stylus

- sugarss

dev: true

/svelte-hmr/0.14.9_svelte@3.46.3:

resolution: {integrity: sha512-

bKE9+4qb4sAnA+TKHiYurUl970rjA0XmIP9TEP7K/ncyWz3m81kA4HOgmlZK/7irGK7gzZlaPDI3cmf8fp/+tg==

}

peerDependencies:

svelte: '>=3.19.0'

dependencies:

svelte: 3.46.3

dev: true

/svelte-preprocess/4.10.2_svelte@3.46.3+typescript@4.5.5:

resolution: {integrity: sha512-

aPpkCreSo8EL/y8kJSa1trhiX0oyAtTjlNNM7BNjRAsMJ8Yy2LtqHt0zyd4pQPXt+D4PzbO3qTjjio3kwOxDIA==}

engines: {node:

```
'>= 9.11.2'}
requiresBuild: true
peerDependencies:
  '@babel/core': ^7.10.2
  coffeescript: ^2.5.1
  less: ^3.11.3 || ^4.0.0
  node-sass: '*'
  postcss: ^7 || ^8
  postcss-load-config: ^2.1.0 || ^3.0.0
  pug: ^3.0.0
  sass: ^1.26.8
  stylus: ^0.55.0
  sugarss: ^2.0.0
  svelte: ^3.23.0
  typescript: ^4.5.2
peerDependenciesMeta:
  '@babel/core':
    optional: true
  coffeescript:
    optional: true
  less:
    optional: true
  node-sass:
    optional: true
  postcss:
    optional: true
  postcss-load-config:
    optional: true
  pug:
    optional: true
  sass:
    optional: true
  stylus:
    optional: true
  sugarss:
    optional: true
  typescript:
    optional: true
dependencies:
  '@types/pug': 2.0.6
  '@types/sass': 1.43.1
  detect-indent: 6.1.0
  magic-string: 0.25.7
  sorcery: 0.10.0
  strip-indent: 3.0.0
  svelte: 3.46.3
  typescript: 4.5.5
dev: true
```



```

/svelte/3.46.3:
  resolution: {integrity: sha512-
mTOXvv74CVQqJHqoIZDprVfRKVVmYNadXP0VKnOEa54223kLGCr1nMrifS4Zx29qMt/xRB38Eq1D7dDH/f
M8fQ==}
  engines: {node: '>= 8'}
  dev: true

/tar-fs/2.1.1:
  resolution: {integrity: sha512-
V0r2Y9scmbDRLCNex/+hYzvp/zyYjvFbHPNgVTKfQvVrb6guiE/fxP+XbIDNR011utopbkex2nM4dHNV6GDsng
==}
  dependencies:
    chownr: 1.1.4
    mkdirp-classic: 0.5.3
    pump: 3.0.0
    tar-stream: 2.2.0
  dev: true

/tar-stream/1.6.2:
  resolution: {integrity: sha512-
rzS0heiNf8Xn7/mpdSVVSMAWAoy9bfb1WOTYC78Z0UQKeKa/CWS8FOq0lKGN8DWKAn9gxjCvMLYc5PG
XYIK2A==}
  engines: {node: '>= 0.8.0'}
  dependencies:
    bl: 1.2.3
    buffer-alloc: 1.2.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    readable-stream: 2.3.7
    to-buffer: 1.1.1
    xtend: 4.0.2
  dev: true

/tar-stream/2.2.0:
  resolution: {integrity: sha512-
ujeqbceABgwMZxEJnk2HDY2DlnUZ+9oEcb1KzTVfYHio0UE6dG71n60d8D2I4qNvleWrrXpmjpt7vZeF1LnMZ
Q==}
  engines: {node: '>=6'}
  dependencies:
    bl: 4.1.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

/temp-dir/1.0.0:

```

resolution: {integrity: sha1-CnwOom06Oa+n4OvqnB/AvE2qAR0=}
engines: {node: '>=4'}
dev: true

/tempfile/2.0.0:

resolution: {integrity: sha1-awRGhWqbERTRhW/8vLCzLCXcmU=}
engines: {node: '>=4'}
dependencies:
 temp-dir: 1.0.0
 uuid: 3.4.0
dev: true

/through/2.3.8:

resolution: {integrity: sha1-DdTJ/6q8NXlgsbckEV1+Doai4fU=}
dev: true

/timed-out/4.0.1:

resolution: {integrity: sha1-8y6srFoXW+ol1/q1Zas+2HQe9W8=}
engines: {node: '>=0.10.0'}
dev: true

/tmp/0.0.33:

resolution: {integrity: sha512-
jRCJlojKnZ3addtTOjdIqoRuPEKBvNXcGYqzO6zWZX8KfKEpnGY5jfggJQ3EjKuu8D4bJRr0y+cYJFmYbImXG
w==}
engines: {node: '>=0.6.0'}
dependencies:
 os-tmpdir: 1.0.2
dev: true

/to-buffer/1.1.1:

resolution:
{integrity: sha512-
lx9B5iv7msuFYE3dytT+KE5tap+rNYw+K4jVkb9R/asAb+pbBSM17jtunHplhBe6RRJdZx3Pn2Jph24O32mOVg=
=}
dev: true

/to-readable-stream/1.0.0:

resolution: {integrity: sha512-
Iq25XBt6zD5npPhlLVXGFN3/gyR2/qODcKNNyTMd4vbm39HUaOiAM4PMq0eMVC/Tkxz+Zjdsc55g9yyz+Yq0
0Q==}
engines: {node: '>=6'}
dev: true

/to-regexp-range/5.0.1:

resolution: {integrity: sha512-
65P7iz6X5yEr1cwcgvQxbbIw7Uk3gOy5dIdtZ4rDveLqhrdJP+Li/Hx6tyK0NEb+2GCyneCMJiGqrADCSNk8sQ==
}
}

engines: {node: '>=8.0'}

dependencies:

is-number: 7.0.0

dev: true

/token-types/4.1.1:

resolution: {integrity: sha512-

hD+QyuUAYI2spzsI0B7gf/jJ2ggR4RjkAo37j3StuePhApJUwcWDjnHDOFdIWYSwNR28H14hpwm4EI+V1Ted1w==}

engines: {node: '>=10'}

dependencies:

'@tokenizer/token': 0.3.0

ieee754: 1.2.1

dev: true

/trim-newlines/1.0.0:

resolution: {integrity: sha1-WIeWa7WCpFA6QetST301ARgVphM=}

engines: {node: '>=0.10.0'}

dev: true

/trim-repeated/1.0.0:

resolution:

{integrity: sha1-42RqLqTokTER9+rObPsFOAvAHCE=}

engines: {node: '>=0.10.0'}

dependencies:

escape-string-regexp: 1.0.5

dev: true

/tslib/2.3.1:

resolution: {integrity: sha512-

77EbyPPpMz+FRFRuAFIWMtmgUWGe9UOG2Z25NqCwiIjRhOf5iKGuzSe5P2w1laq+FkRy4p+PCuVkJSGkzTEKVw==}

dev: true

/tunnel-agent/0.6.0:

resolution: {integrity: sha1-J6XeoGs2sEoKmWZ3SykIaPD8QP0=}

dependencies:

safe-buffer: 5.2.1

dev: true

/type-fest/0.13.1:

resolution: {integrity: sha512-

34R7HTnG0XIcBSn5XhDd7nNFPRcXYRZrBB2O2jdKqYODldSzBAqzsWoZYYvduky73toYS/ESqxPvkDf/FOX Mg==}

engines: {node: '>=10'}

dev: true

/type-fest/0.20.2:

```

    resolution: {integrity: sha512-
Ne+eE4r0/iWnpAxD852z3A+N0Bt5RN//NjJwRd2VFHEmrywxf5vsZlh4R6lixl6B+wz/8d+maTSAkN1FIkI3LQ==
}
    engines: {node: '>=10'}
    dev: true

/type-fest/0.21.3:
  resolution: {integrity: sha512-
t0rzBq87m3fVcduHdUFhKmyyX+9eo6WQjZvf51Ea/M0Q7+T374Jp1aUiyUl0GKxp8M/OETVHSDvmkyPgvX+
X2w==}
  engines: {node: '>=10'}

  dev: true

/typedarray-to-buffer/3.1.5:
  resolution: {integrity: sha512-
zdu8XMNEDepKKR+XYOXAVPtWui0ly0NtohUscw+UmaHiAWT8hrV1rr//H6V+0DvJ3OQ19S979M0laLfX8rm
82Q==}
  dependencies:
    is-typedarray: 1.0.0
  dev: true

/typescript/4.5.5:
  resolution: {integrity: sha512-
TCTIul70LyWe6IJWT8QSYeA54WQe8EjQFU4wY52Fasj5UKx88LNYKCgBEHcOMOrFF1rKGbD8v/xcNWVU
q9SymA==}
  engines: {node: '>=4.2.0'}
  hasBin: true
  dev: true

/unbzip2-stream/1.4.3:
  resolution: {integrity: sha512-
mlExGW4w71ebDJviH16lQLtZS32VKqsSfk80GCfUlwT/4/hNRFsoscF/c++9xinkMzECL1uL9DDwXqFWkruPg
==}
  dependencies:
    buffer: 5.7.1
    through: 2.3.8
  dev: true

/unique-string/2.0.0:
  resolution: {integrity: sha512-
uNaairEPvpZWsgzwsPGtU2zVSTrn/8L5q/IexZmH0eH6SA73CmAA5U4GwORTxQAZs95TAXLNqeLoPPNO5g
ZfWg==}
  engines: {node: '>=8'}
  dependencies:
    crypto-random-string: 2.0.0
  dev: true

```

```

/universalify/2.0.0:
  resolution: {integrity: sha512-
hAZsKq7Yy11Zu1DE0OzWjw7nnLZmJZYTDDZyEFHdUhV8FkH5MCfoU1XMaxXovpyW5nq5scPqq0ZDP9Z
yl04oQ==}
  engines: {node: '>= 10.0.0'}
  dev: true

/update-notifier/5.1.0:
  resolution: {integrity: sha512-
ItNICHbeMh9GqUy31hFPrD1kcuZ3rpxDZbf4KUDavXwS0bW5m7SLbDQpGX3UYr072cbrF5hFU3r5tUsPwjfH
w==}
  engines: {node: '>=10'}
  dependencies:
    boxen: 5.1.2
    chalk: 4.1.2
    configstore: 5.0.1
    has-yarn: 2.1.0
    import-lazy: 2.1.0
    is-ci: 2.0.0
    is-installed-globally: 0.4.0
    is-npm: 5.0.0
    is-yarn-global: 0.3.0
    latest-version: 5.1.0
    pupa: 2.1.1
    semver: 7.3.5
    semver-diff: 3.1.1
    xdg-basedir: 4.0.0
  dev: true

/url-parse-lax/1.0.0:
  resolution: {integrity: sha1-evjzA2Rem9eaJy56FKxovAYJ2nM=}
  engines: {node: '>=0.10.0'}
  dependencies:
    prepend-http: 1.0.4
  dev: true

/url-parse-lax/3.0.0:
  resolution: {integrity: sha1-FrXK/Afb42dsGxmZF3gj1lA6yww=}
  engines: {node: '>=4'}
  dependencies:
    prepend-http: 2.0.0
  dev: true

/url-to-options/1.0.1:
  resolution: {integrity: sha1-FQWgOiaSMvXpDTvuu7FBV9WM6k=}
  engines: {node: '>= 4'}
  dev: true

```

```

/util-deprecate/1.0.2:
  resolution: {integrity: sha1-RQ1Nyfpw3nMnYvvS1KKJgUGaDM8=}
  dev: true

/uuid/3.4.0:
  resolution: {integrity: sha512-HjSDRw6gZE5JMggctHBcjVak08+KEVhSIiDzFnT9S9aegmp85S/bReBVTb4QTFaRNptJ9kuYaNhnbnEOkbKb/A==}
  deprecated: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
  hasBin: true
  dev: true

/validate-npm-package-license/3.0.4:
  resolution: {integrity: sha512-DpKm2Ui/xN7/HQKCTpZxoRWBhZ9Z0kqtygG8XCgNQ8ZlDnxuQmWhj566j8fN4Cu3/JmbhsDo7fcAJq4s9h27Ew==}
  dependencies:
    spdx-correct: 3.1.1
    spdx-expression-parse: 3.0.1
  dev: true

/vite/2.7.13:
  resolution: {integrity: sha512-Mq8et7f3aK0SgSxjDNfOAimZGW9XryfHRa/uV0jseQSilg+KhYDS0Nb9h1rknOy6SuMkvNDLKCYAYYUMCE+IgQ==}
  engines: {node: '>=12.2.0'}
  hasBin: true
  peerDependencies:
    less: '*'
    sass: '*'
    stylus: '*'
  peerDependenciesMeta:
    less:
      optional: true
    sass:
      optional: true
    stylus:
      optional: true
  dependencies:
    esbuild: 0.13.15
    postcss: 8.4.5
    resolve: 1.22.0
    rollup: 2.66.1
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

```

```

/wcwidth/1.0.1:
  resolution: {integrity: sha1-8LDc+RW8X/FSivrbLA4XtTLaL+g=}
  dependencies:
    defaults: 1.0.3
  dev: true

/which/1.3.1:
  resolution: {integrity: sha512-HxJdYWq1MTIQbJ3nw0cqssHoTNU267KlrDuGZ1WY1xDStUtKUhOaJmh112/TZmHxxUfuJqPXSOM7tDyas0O
SIQ==}
  hasBin: true
  dependencies:
    isexe: 2.0.0
  dev: true

/which/2.0.2:
  resolution: {integrity: sha512-BLI3Tl1TW3Pvl70l3yq3Y64i+awpwxXqsGBYWkkqMtnbXgrMD+yj7rhW0kuEDxzJaYXGjEW5ogapKNMEKNM
jibA==}
  engines: {node: '>= 8'}
  hasBin: true
  dependencies:
    isexe: 2.0.0
  dev:
true

/wide-align/1.1.5:
  resolution: {integrity: sha512-eDMORYaPNZ4sQIuuYPdHdQvf4gyCF9rEEV/yPxGfwPkRodwEgiMUUXTx/dex+Me0wxx53S+NgUHaP7y3M
Gldmg==}
  dependencies:
    string-width: 1.0.2
  dev: true

/widest-line/3.1.0:
  resolution: {integrity: sha512-NsmoXalsWVDMGupxZ5R08ka9flZjjiLvHVAWYOKtiKM8ujtZW9cRffak+uSE48+Ob8ObalXpwyeUiyDD6QFg
g==}
  engines: {node: '>=8'}
  dependencies:
    string-width: 4.2.3
  dev: true

/with-open-file/0.1.7:
  resolution: {integrity: sha512-ecJS2/oHtESJ1t3ZfMI3B7KIDKyfN0O16miWxdn30zdh66Yd3LsRfFebXZXq6GU4xfxLf6nVxp9kIqElb5fqczA==}
  engines: {node: '>=6'}
  dependencies:

```

p-finally: 1.0.0

p-try: 2.2.0

pify: 4.0.1

dev: true

/wrap-ansi/7.0.0:

resolution: {integrity: sha512-YVGIj2kamLSTxw6NsZjoBxfSwsn0ycdesmc4p+Q21c5zPuZ1pl+NfxVdxPtdHvmNVOQ6XSYG4AUtyt/Fi7D16Q==}

engines: {node: '>=10'}

dependencies:

ansi-styles: 4.3.0

string-width: 4.2.3

strip-ansi: 6.0.1

dev: true

/wrappy/1.0.2:

resolution: {integrity: sha1-tSQ9jz7BqjXxNkYFvA0QNuMKtp8=}

dev: true

/write-file-atomic/3.0.3:

resolution: {integrity: sha512-AvHcyZ5JnSfq3ioSjyrBkH9yW4m7Ayk8/9My/DD9onKeu/94fwrMocemO2QAJFAlnnDN+ZDS+ZjAR5ua1/PV/Q==}

dependencies:

imurmurhash: 0.1.4

is-typedarray: 1.0.0

signal-exit: 3.0.6

typedarray-to-buffer: 3.1.5

dev: true

/xdg-basedir/4.0.0:

resolution: {integrity: sha512-PSNhEJDejZYV7h50BohL09Er9VaIefr2LMAf3OEmpCkjOi34eYyQYAXUTjEQtZJTKcF0E2UKTh+osDLsgNim9Q==}

engines: {node: '>=8'}

dev: true

/xtend/4.0.2:

resolution: {integrity: sha512-LKYUliAXJXUgAXn9URjju+MWhyUXHsvfp7mcuYm9dSUKK0/CjtrUwFAxD82/mCWbtLsGjFIad0wIsod4zrTAEQ==}

engines: {node: '>=0.4'}

dev: true

/yallist/2.1.2:

resolution: {integrity: sha1-HBH5IY8HYImkfdUS+TxmmaaoHVI=}

dev: true


```
/yallist/4.0.0:
  resolution: {integrity: sha512-3wdGidZyq5PB084XLES5TpOSRA3wjXAlIWMhum2kRcv/41Sn2emQ0dycQW4uZXLejwKvg6EsvbdlIVL+FYEc
t7A==}
  dev: true
```

```
/yauzl/2.10.0:
  resolution: {integrity: sha1-x+sXyT4RLLEIb6bY5R+wZnt5pfk=}
  dependencies:
    buffer-crc32: 0.2.13
    fd-slicer: 1.1.0
  dev: true
```

```
/zopflipng-bin/6.0.1:
  resolution: {integrity: sha512-+aybvXv/xafL6I67uSH5yLHrSy4/OaSOV9tniw4yZFIHpINXUcctVHE/WzHxOONrL2GHZJ8Fd4iDrNyaS6TVbg=
=}
  engines: {node: '>=10'}
  hasBin: true
  requiresBuild: true
  dependencies:
    bin-build: 3.0.0
    bin-wrapper: 4.1.0
    logalot: 2.1.0
  dev: true
```

Found in path(s):

```
* /freethinkel-yamux-v0-1-1-0-g502720e-1-tar-gz/freethinkel-yamux-502720e/pnpm-lock.yaml
No license file was found, but licenses were detected in source scan.
```

```
*/@font-face{font-family:tabler-icons;font-style:normal;font-weight:400;src:url(fonts/tabler-
icons.eot);src:url(fonts/tabler-icons.eot?#iefix) format("embedded-opentype"),url(fonts/tabler-icons.woff2)
format("woff2"),url(fonts/tabler-icons.woff) format("woff"),url(fonts/tabler-icons.ttf)
format("truetype"),url(fonts/tabler-icons.svg#tabler-icons) format("svg")}@media screen and (-webkit-min-device-
pixel-ratio:0){@font-face{font-family:tabler-icons;src:url(fonts/tabler-icons.svg#tabler-icons)
format("svg")}.ti{font-family:tabler-icons!important;speak:none;font-style:normal;font-weight:400;font-
variant:normal;text-transform:none;line-height:1;-webkit-font-smoothing:antialiased;-moz-osx-font-
smoothing:grayscale}.ti-2fa:before{content:"\eca0"}.ti-3d-cube-sphere:before{content:"\ecd7"}.ti-a-
b:before{content:"\ec36"}.ti-access-point:before{content:"\ed1b"}.ti-access-point-off:before{content:"\ed1a"}.ti-
accessible:before{content:"\eba9"}.ti-activity:before{content:"\ed23"}.ti-ad:before{content:"\ea02"}.ti-ad-
2:before{content:"\ef1f"}.ti-adjustments:before{content:"\ea03"}.ti-adjustments-alt:before{content:"\ec37"}.ti-
adjustments-horizontal:before{content:"\ec38"}.ti-aerial-lift:before{content:"\edfe"}.ti-
affiliate:before{content:"\edff"}.ti-alarm:before{content:"\ea04"}.ti-alert-circle:before{content:"\ea05"}.ti-alert-
octagon:before{content:"\ecc6"}.ti-alert-triangle:before{content:"\ea06"}.ti-alien:before{content:"\ebde"}.ti-align-
center:before{content:"\ea07"}.ti-align-justified:before{content:"\ea08"}.ti-align-left:before{content:"\ea09"}.ti-
align-right:before{content:"\ea0a"}.ti-ambulance:before{content:"\ebf5"}.ti-anchor:before{content:"\eb76"}.ti-
angle:before{content:"\ef20"}.ti-antenna-bars-1:before{content:"\ecc7"}.ti-antenna-bars-
```

2:before{ content:"\ecc8" }.ti-antenna-bars-3:before{ content:"\ecc9" }.ti-antenna-bars-4:before{ content:"\ecca" }.ti-antenna-bars-5:before{ content:"\eccb" }.ti-aperture:before{ content:"\eb58" }.ti-apple:before{ content:"\ef21" }.ti-apps:before{ content:"\ebb6" }.ti-archive:before{ content:"\ea0b" }.ti-arrow-back:before{ content:"\ea0c" }.ti-arrow-back-up:before{ content:"\eb77" }.ti-arrow-bar-down:before{ content:"\ea0d" }.ti-arrow-bar-left:before{ content:"\ea0e" }.ti-arrow-bar-right:before{ content:"\ea0f" }.ti-arrow-bar-to-down:before{ content:"\ec88" }.ti-arrow-bar-to-left:before{ content:"\ec89" }.ti-arrow-bar-to-right:before{ content:"\ec8a" }.ti-arrow-bar-to-up:before{ content:"\ec8b" }.ti-arrow-bar-up:before{ content:"\ea10" }.ti-arrow-big-down:before{ content:"\edda" }.ti-arrow-big-left:before{ content:"\eddb" }.ti-arrow-big-right:before{ content:"\eddc" }.ti-arrow-big-top:before{ content:"\eddd" }.ti-arrow-bottom-bar:before{ content:"\ed98" }.ti-arrow-bottom-circle:before{ content:"\ed99" }.ti-arrow-bottom-square:before{ content:"\ed9a" }.ti-arrow-bottom-tail:before{ content:"\ed9b" }.ti-arrow-down:before{ content:"\ea16" }.ti-arrow-down-circle:before{ content:"\ea11" }.ti-arrow-down-left:before{ content:"\ea13" }.ti-arrow-down-left-circle:before{ content:"\ea12" }.ti-arrow-down-right:before{ content:"\ea15" }.ti-arrow-down-right-circle:before{ content:"\ea14" }.ti-arrow-forward:before{ content:"\ea17" }.ti-arrow-forward-up:before{ content:"\eb78" }.ti-arrow-left:before{ content:"\ea19" }.ti-arrow-left-bar:before{ content:"\ed9c" }.ti-arrow-left-circle:before{ content:"\ea18" }.ti-arrow-left-square:before{ content:"\ed9d" }.ti-arrow-left-tail:before{ content:"\ed9e" }.ti-arrow-loop-left:before{ content:"\ed9f" }.ti-arrow-loop-right:before{ content:"\eda0" }.ti-arrow-narrow-down:before{ content:"\ea1a" }.ti-arrow-narrow-left:before{ content:"\ea1b" }.ti-arrow-narrow-right:before{ content:"\ea1c" }.ti-arrow-narrow-up:before{ content:"\ea1d" }.ti-arrow-ramp-left:before{ content:"\ed3c" }.ti-arrow-ramp-right:before{ content:"\ed3d" }.ti-arrow-right:before{ content:"\ea1f" }.ti-arrow-right-bar:before{ content:"\eda1" }.ti-arrow-right-circle:before{ content:"\ea1e" }.ti-arrow-right-square:before{ content:"\eda2" }.ti-arrow-right-tail:before{ content:"\eda3" }.ti-arrow-top-bar:before{ content:"\eda4" }.ti-arrow-top-circle:before{ content:"\eda5" }.ti-arrow-top-square:before{ content:"\eda6" }.ti-arrow-top-tail:before{ content:"\eda7" }.ti-arrow-up:before{ content:"\ea25" }.ti-arrow-up-circle:before{ content:"\ea20" }.ti-arrow-up-left:before{ content:"\ea22" }.ti-arrow-up-left-circle:before{ content:"\ea21" }.ti-arrow-up-right:before{ content:"\ea24" }.ti-arrow-up-right-circle:before{ content:"\ea23" }.ti-arrow-wave-left-down:before{ content:"\eda8" }.ti-arrow-wave-left-up:before{ content:"\eda9" }.ti-arrow-wave-right-down:before{ content:"\edaa" }.ti-arrow-wave-right-up:before{ content:"\edab" }.ti-arrows-diagonal:before{ content:"\ea27" }.ti-arrows-diagonal-2:before{ content:"\ea26" }.ti-arrows-double-ne-sw:before{ content:"\edde" }.ti-arrows-double-nw-se:before{ content:"\eddf" }.ti-arrows-double-se-nw:before{ content:"\ede0" }.ti-arrows-double-sw-ne:before{ content:"\ede1" }.ti-arrows-down:before{ content:"\edad" }.ti-arrows-down-up:before{ content:"\edac" }.ti-arrows-horizontal:before{ content:"\eb59" }.ti-arrows-join:before{ content:"\edaf" }.ti-arrows-join-2:before{ content:"\edae" }.ti-arrows-left:before{ content:"\edb1" }.ti-arrows-left-down:before{ content:"\ee00" }.ti-arrows-left-right:before{ content:"\edb0" }.ti-arrows-maximize:before{ content:"\ea28" }.ti-arrows-minimize:before{ content:"\ea29" }.ti-arrows-right:before{ content:"\edb3" }.ti-arrows-right-down:before{ content:"\ee01" }.ti-arrows-right-left:before{ content:"\edb2" }.ti-arrows-sort:before{ content:"\eb5a" }.ti-arrows-split:before{ content:"\edb5" }.ti-arrows-split-2:before{ content:"\edb4" }.ti-arrows-up:before{ content:"\edb7" }.ti-arrows-up-down:before{ content:"\edb6" }.ti-arrows-up-left:before{ content:"\ee02" }.ti-arrows-up-right:before{ content:"\ee03" }.ti-arrows-vertical:before{ content:"\eb5b" }.ti-artboard:before{ content:"\ea2a" }.ti-aspect-ratio:before{ content:"\ed30" }.ti-at:before{ content:"\ea2b" }.ti-atom:before{ content:"\eb79" }.ti-atom-2:before{ content:"\ebdf" }.ti-award:before{ content:"\ea2c" }.ti-backhoe:before{ content:"\ed86" }.ti-backspace:before{ content:"\ea2d" }.ti-ball-american-football:before{ content:"\ee04" }.ti-ball-basketball:before{ content:"\ec28" }.ti-ball-bowling:before{ content:"\ec29" }.ti-ball-football:before{ content:"\ee06" }.ti-ball-football-off:before{ content:"\ee05" }.ti-ball-tennis:before{ content:"\ec2a" }.ti-ball-volleyball:before{ content:"\ec2b" }.ti-ban:before{ content:"\ea2e" }.ti-bandage:before{ content:"\eb7a" }.ti-barcode:before{ content:"\ebc6" }.ti-

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 text:before{ content:"\ee6d" }.ti-cut:before{ content:"\ea86" }.ti-dashboard:before{ content:"\ea87" }.ti-
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1.110 sockjs 3.0.2

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1.111 blugelabs-ice 1.0.0

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1.112 blevesearch-mmap-go 1.0.4

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1.113 go-ntlmssp 0.0.0-20220621081337-cb9428e4ac1e

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1.114 gogo-status 1.1.1

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1.115 fgprof 0.9.3

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1.116 dgraph-io-ristretto 0.1.1

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1.117 zap 1.24.0

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1.118 apapsch-go-jsonmerge 2.0.0

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1.119 go-ieproxy 0.0.3

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1.120 value-merged_fs 1.2.2

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1.121 crosswork-robot-api 4.5.0.5

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cw_ztp_license_device.proto

ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
 double		double	double	float	float64	double	float	Float
 float		float	float	float	float32	float	float	Float
 int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
 int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
 uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
 uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
 sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
 sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
 fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2²⁸.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
 fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2⁵⁶.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
 sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
 sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
 bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
 string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
 bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)
Protocol Documentation

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- [Scalar Value Types](#scalar-value-types)

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cw_ztp_license_device_v2.proto

ZtpLicenseDeviceV2

Field	Type	Label	Description
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
 double		double	double	float	float64	double	float	Float
 float		float	float	float	float32	float	float	Float
 int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int	int	int	int32	int	integer	Bignum or Fixnum (as required)
 int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	long	int/long	int64	long	integer/string	Bignum	
 uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum

```

or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer
| Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

```

```

package cwztpsvc

```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)

```

```

// Reference imports to suppress errors if they are not otherwise used.

```

```

var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file

```

```

// is compatible with the proto package it is being compiled against.

```

```

// A compilation error at this line likely means your copy of the

```

```

// proto package needs to be updated.

```

```

const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

```

```

type ZtpLicenseDeviceV2 struct {

```

```

    Uuid          string  `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`

```

```

    SerialNumber   []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`

```

```

    LocationId     string  `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`

```

```

    XXX_NoUnkeyedLiteral

```

```

struct{ } `json:"-`
XXX_unrecognized []byte `json:"-`
XXX_sizecache    int32 `json:"-`
}

func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{ } }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
    return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }

```

```

}
return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
    0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
    0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
    0x65,
    0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
    0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
    0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
    0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
    0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
    0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
    0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
    0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
    0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
    0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
    0x00, 0xff, 0xff, 0x66,
    0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
    Id          int32  `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status      string `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    LastUpdated int64  `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral
    struct{} `json:"-"`
    XXX_unrecognized []byte `json:"-"`
    XXX_sizecache    int32  `json:"-"`
}

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func
(m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0
}

```

```

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48,
    0x58, 0x5f, 0xc2, 0xfe,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
    0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
    0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
    0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

# Protocol Documentation
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  - [ZtpLicense](#cwztpsvc-ZtpLicense)

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- [Scalar Value Types](#scalar-value-types)

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```

cw_ztp_license.proto

```
<a name="cwztpsvc-ZtpLicense"></a>
```

ZtpLicense

Field	Type	Label	Description
id	[int32](#int32)		
status	[string](#string)		
lastUpdated	[int64](#int64)		

Scalar Value Types

.proto	Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
	double		double	double	float	float64	double	float	Float
	float		float	float	float	float32	float	float	Float
	int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
	int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field							

is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |
| sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64
| long | integer/string | Bignum |
| fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| string | A string must always contain UTF-8 encoded or 7-bit ASCII
text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

```
package cwztpsvc
```

```
import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)
```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
```

```
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```
type ZtpLicenseDevice struct {
    DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
    json:"deviceSerialNumber,omitempty"`
}
```



```

XXX_NoUnkeyedLiteral struct{ } `json:"-`
XXX_unrecognized []byte `json:"-`
XXX_sizecache    int32 `json:"-`
}

func (m *ZtpLicenseDevice)
Reset()      { *m = ZtpLicenseDevice{ } }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
    return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
    if m != nil {
        return m.DeviceSerialNumber
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{

```

```
// 201 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
0xbc, 0x6c, 0x42,
0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

1.122 memberlist 0.5.0

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1.124 antlr-antlr4-runtime-go-antlr 1.4.10

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1.125 kr-pretty 0.3.1

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1.126 robot-nca 0.0.0-20230306102802-b3746c926021

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

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package pq

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

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

```

```

return c.(*conn).noticeHandler
}

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

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

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

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.

```

```
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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The

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1.128 fasthttp 1.40.0

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1.129 crewjam-saml 0.4.13

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1.130 clockwork 0.4.0

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1.131 profile 1.7.0

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1.132 influxdb 1.9.5

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1.133 gen-go-parca-dev-parca-bufbuild-connect-go 1.4.1-20221222094228-8b1d3d0f62e6.1

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1.134 gen-go-parca-dev-parca- protocolbuffers-go 1.28.1-20221222094228- 8b1d3d0f62e6.4

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1.135 unknwon-log 0.0.0-20150304194804-e617c87089d3

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1.139 grafana-sqls 2.3.10

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1.140 gofrs-uuid 4.4.0+incompatible

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1.141 go-rendezvous 0.0.0-20200823014737-9f7001d12a5f

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1.142 gofork 1.7.6

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1.143 bzip2 1.0.8-r6

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1.144 musl-obstack 1.2.3-r2

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1.145 lumberjack 2.2.1

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1.146 @eslint-community/eslint-utils 4.2.0

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1.147 msgpack 1.0.5

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1.148 go-openapi-errors 0.20.4

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1.149 grafana-grafana-google-sdk-go 0.1.0

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1.150 filippo.io-age 1.1.1

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1.152 antlr-antlr4-runtime-go-antlr 4.0.0-20230305170008-8188dc5388df

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1. `String.prototype.codePointAt` (<https://github.com/mathiasbynens/String.prototype.codePointAt>)

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1.153 grafana-dataplane-sdata 0.0.6

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1.154 segmentio-encoding 0.3.6

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1.155 invopop-yaml 0.2.0

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1.156 grafana-ansible-collection 2.1.4

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1.157 benbjohnson-clock 1.3.5

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1.158 go-openapi-jsonpointer 0.20.0

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1.159 cockroachdb-errors 1.9.1

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1.160 robot-telemetry_proto 0.0.0- 20230530153245-d7fe7800c244

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-- Juniper Enterprise Specific MIB: License MIB

--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

jnxLicenseMibRoot

FROM JUNIPER-SMI

DisplayString

FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201906170000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center

Juniper Networks, Inc.

1133 Innovation Way

Sunnyvale, CA 94089

E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB

for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

REVISION "201612150000Z" -- Dec 15, 2016

DESCRIPTION

"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

REVISION "201906170000Z" -- Jun 17, 2019

DESCRIPTION

"Deprecated jnxLicenseKeys."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****


```

-- License table for installed licenses
-- *****

jnxLicenseInstallTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION   "This table contains installed feature license information."
    ::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE
    SYNTAX      JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION   "A row of giving installed feature license information."
    INDEX       { IMPLIED jnxLicenseId }
    ::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion  INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType     INTEGER,
    jnxLicenseKeys     OCTET STRING,
    jnxLicenseKeyType  INTEGER
}

jnxLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION   "Installed feature licenses Id."
    ::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION   "License Version information"
    ::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION   "License Device Id "
    ::= { jnxLicenseInstallEntry 3 }

```

```
jnxLicenseType OBJECT-TYPE
    SYNTAX      INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License type information"
    ::= { jnxLicenseInstallEntry 4 }
```

```
jnxLicenseKeys OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS   read-only
    STATUS       deprecated
    DESCRIPTION  "***** THIS OBJECT IS DEPRECATED *****
        This object is deprecated,
        it displays all the license keys
        in the system."

    ::= { jnxLicenseInstallEntry 5 }
```

```
jnxLicenseKeyType OBJECT-TYPE
    SYNTAX      INTEGER { commercial(1),
        trial(2), demo(3), emergency(4), lab(5), education(6) }
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License key type"
    ::= { jnxLicenseInstallEntry 6 }
```

-- Feature Listing Table

```
jnxLicenseFeatureListTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "list of features supporting Licensing."
    ::= { jnxLicenseInstallObjects 2 }
```

```
jnxLicenseFeatureListEntry OBJECT-TYPE
    SYNTAX      JnxLicenseFeatureListEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "A row of licensed features."
    INDEX       { jnxLicenseFeatureId }
    ::= { jnxLicenseFeatureListTable 1 }
```

```
JnxLicenseFeatureListEntry ::= SEQUENCE {
    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName    DisplayString,
    jnxLicenseFeatureDescr   DisplayString,
```

```

jnxLicenseFeatureLicenseId
    DisplayString,
jnxLicenseFeatureLicenseUsed    INTEGER,
jnxLicenseFeatureLicenseInstalled    INTEGER,
jnxLicenseFeatureLicenseNeeded    INTEGER
}

```

```

jnxLicenseFeatureId OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "Feature Id to point an entry in this table"
    ::= { jnxLicenseFeatureListEntry 1 }

```

```

jnxLicenseFeatureName OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Feature Name"
    ::= { jnxLicenseFeatureListEntry 2 }

```

```

jnxLicenseFeatureDescr OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Feature Name"
    ::= { jnxLicenseFeatureListEntry 3 }

```

```

jnxLicenseFeatureLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Feature License Id"
    ::= { jnxLicenseFeatureListEntry 4 }

```

```

jnxLicenseFeatureLicenseUsed  OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Licenses Used"
    ::= { jnxLicenseFeatureListEntry 5 }

```

```

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Licenses Installed"

```

```

::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Licenses Needed"
    ::= { jnxLicenseFeatureListEntry 7 }

-- *****
-- License configuration parameters
-- *****

jnxLicenseRenewBeforExpiration
    OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License renew lead time before expiration in days."
    ::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License checking interval in hours."
    ::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License auto update URL of a license server."
    ::= { jnxLicenseSettings 3 }

-- *****
-- define branches for jnx license traps
-- *****

jnxLicenseGraceExpired NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName

```

```

}
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is expired"
::= { jnxLicenseNotifications 1 }

```

```

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 2 }

```

```

jnxLicenseAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }

```

```

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the
feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName"
::= { jnxLicenseNotifications 4 }

```

```

jnxLicenseInfringeSingle NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available."
::= { jnxLicenseNotifications 5 }

```

```

jnxLicenseKeyExpired NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName, jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
STATUS current
DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or

```

```

    not available."
    ::= { jnxLicenseNotifications 6 }

END

submodule Cisco-IOS-XR-smart-license-platform-oper-sub1 {
    belongs-to Cisco-IOS-XR-smart-license-platform-oper {
        prefix Cisco-IOS-XR-smart-license-platform-oper;
    }

    import cisco-semver {
        prefix semver;
    }

    organization
        "Cisco Systems, Inc.";
    contact
        "Cisco Systems, Inc.
        Customer Service

        Postal: 170 West Tasman Drive
        San Jose, CA 95134

        Tel: +1 800 553-NETS

        E-mail: cs-yang@cisco.com";
    description
        "This submodule contains a collection of YANG definitions
        for Cisco IOS-XR smart-license-platform package operational data.

        Copyright (c) 2013-2022 by Cisco Systems, Inc.
        All rights reserved.";

    revision 2022-09-28 {
        description
            "Added zr-zrp-dco under ft-feature-name-enum enum.
            2022-07-27
            Renamed node-deactivated enum to perpetual-without-sia-renewal in Sia-status-enum type.
            2022-05-09
            Traffic-Eng Advantage license feature renamed to SR-TE Advantage license
            in feature-details container.";
        semver:module-version "2.0.0";
    }
    revision 2021-06-03 {
        description
            "Added support for enum node-deactivated.";
        semver:module-version "1.1.0";
    }
    revision 2020-09-15 {

```

```

description
    "Structured the yang response for show CLIs.";
semver:module-version "1.0.0";
}
revision 2019-04-05 {
    description
        "Establish semantic version baseline.";
}
revision 2015-11-09 {
    description
        "IOS XR 6.0 revision.";
}

```

```

typedef Ft-feature-name-enum {
    type enumeration {
        enum "essential" {
            description
                "essential";
        }
        enum "l3vpn-advantage" {
            description
                "l3vpn advantage";
        }
        enum "macsec-advantage" {
            description
                "macsec advantage";
        }
        enum "peering-scale-advantage" {
            description
                "peering scale advantage";
        }
        enum "sr-te-advantage" {
            description
                "sr te advantage";
        }
        enum "flex-algo-advantage" {
            description
                "flex algo advantage";
        }
        enum "service-layer-advantage" {
            description
                "service layer advantage";
        }
        enum "evpn-advantage" {
            description
                "evpn advantage";
        }
        enum "vpls-advantage" {

```

```

    description
        "vpls advantage";
    }
    enum "iccp-advantage" {
        description
            "iccp advantage";
    }
    enum "l2vpn-advantage" {
        description
            "l2vpn advantage";
    }
    enum "zr-zrp-dco" {
        description
            "zr zrp dco";
    }
}
description
    "Feature Name in the feature table";
}

```

```

typedef Feature-status-enum {
    type enumeration {
        enum "active" {
            description
                "active";
        }
        enum "inactive" {
            description
                "inactive";
        }
    }
}
description
    "Feature Name";
}

```

```

typedef Feature-name-enum {
    type enumeration {

enum "fcm" {
    description
        "fcm";
}
enum "system" {
    description
        "system";
}
}
description

```



```
"Feature Name";  
}
```

```
typedef Bool-state {  
  type enumeration {  
    enum "no" {  
      value 0;  
      description  
        "No";  
    }  
    enum "yes" {  
      value 1;  
      description  
        "Yes";  
    }  
  }  
  description  
    "Boolean State ";  
}
```

```
typedef Sia-status-enum {  
  type enumeration {  
    enum "incompliance" {  
      description  
        "incompliance";  
    }  
    enum "out-of-compliance" {  
      description  
        "out of compliance";  
    }  
    enum "perpetual-without-sia-renewal" {  
      description  
        "perpetual without sia renewal";  
    }  
  }  
  description  
    "SIA Status";  
}
```

```
grouping FEATURE-LIST {  
  description  
    "FEATURE LIST";  
  container count {  
    description  
      "Count";  
    uses PLAT-ENTITLEMENT;  
  }  
  leaf feature-area
```

```

{
    type Feature-name-enum;
    description
        "Feature Name";
}
leaf entitlement {
    type string;
    description
        "Entitlement";
}
}

grouping PLAT-SL-SUMMARY {
    description
        "SL Summary";
    container collection {
        description
            "Last and Next collection times";
        uses PLAT-INTERVALS;
    }
    container reporting {
        description
            "Last and Next reporting times";
        uses PLAT-INTERVALS;
    }
    container sia-status {
        description
            "SIA Status";
        uses PLAT-SIA-STATUS;
    }
    container upgrade-license-status {
        description
            "Upgrade License Status";
        uses PLAT-UPGRADE-LICENSE-STATUS;
    }
    list license {
        description
            "List of licenses consumed";
        uses FEATURE-LIST;
    }
}

```

```

grouping PLAT-ENTITLEMENT {
    description
        "PLAT ENTITLEMENT";
    leaf last {
        type uint32;
        description

```

```

        "Last count";
    }
    leaf next {

type uint32;
    description
        "Next count";
    }
}

grouping PLAT-ENTITLEMENT-LIST {
    description
        "PLAT ENTITLEMENT LIST";
    container count {
        description
            "Count";
        uses PLAT-ENTITLEMENT;
    }
    leaf name {
        type string;
        description
            "Entitlement Name";
    }
    leaf entitlement-tag {
        type string;
        description
            "Entitlement Tag";
    }
}

grouping PLAT-FEATURE-TABLE {
    description
        "PLAT FEATURE TABLE";
    leaf feature {
        type Ft-feature-name-enum;
        description
            "Feature Name";
    }
    leaf location {
        type string;
        description
            "Location";
    }
    leaf interface-list {
        type string;
        description
            "Interface List";
    }
}

```

```

}

grouping PLAT-DETAIL-FLAGS {
  description
    "PLAT DETAIL FLAGS";
  leaf need-running-config {
    type Bool-state;
    description
      "Is running config needed";
  }
  leaf need-throughput {
    type Bool-state;
    description
      "Is throughput needed";
  }
}

grouping FEATURE-DETAILS {
  description
    "FEATURE DETAILS";
  container flags {
    description
      "Flags for is running config and is throughput";
    uses PLAT-DETAIL-FLAGS;
  }
  leaf name {
    type Feature-name-enum;
    description
      "Feature Name";
  }
  leaf status {
    type Feature-status-enum;
    description
      "Status";
  }
  list feature-table {
    description
      "Feature Table";
    uses PLAT-FEATURE-TABLE;
  }
  list entitlement {
    description
      "List of entitlements";
    uses PLAT-ENTITLEMENT-LIST;
  }
}

```

```

grouping PLAT-PARAMETERS {

```

```

description
  "PLAT PARAMETERS";
leaf collection-interval {
  type int32;
  units "minute";
  description
    "Collection Interval in minutes";
}
leaf reporting-interval {
  type int32;
  units "minute";
  description

"Reporting Interval minutes";
}
leaf throughput-guage {
  type int32;
  units "kbit/s";
  description
    "Throughput Guage in Kbps";
}
}

grouping PLAT-UPGRADE-LICENSE-STATUS {
  description
    "PLAT UPGRADE LICENSE STATUS";
  container grace-period-remaining {
    description
      "Remaining grace period";
    uses PLAT-GRACE-PERIOD;
  }
  leaf upgrade-license-state {
    type Sia-status-enum;
    description
      "Upgrade License status enum";
  }
  leaf grace-period-expired {
    type Bool-state;
    description
      "Has grace period expired";
  }
  leaf ooc-reason {
    type string;
    description
      "Reason for Upgrade License ooc";
  }
}
}

```

```

grouping PLAT-GRACE-PERIOD {
  description
    "PLAT GRACE PERIOD";
  leaf days {
    type int32;
    units "day";
    description
      "Number of days remaining in grace period";
  }
  leaf hours {
    type int32;
    units "hour";
    description
      "Number of hours remaining in grace period";
  }
}

```

```

grouping PLAT-SIA-STATUS {
  description
    "PLAT SIA STATUS";
  container grace-period-remaining {
    description
      "Remaining grace period";
    uses PLAT-GRACE-PERIOD;
  }
  leaf sia-state {
    type Sia-status-enum;
    description
      "SIA status enum";
  }
  leaf grace-period-expired {
    type Bool-state;
    description
      "Has grace period expired";
  }
  leaf ooc-reason {
    type string;
    description
      "Reason for SIA ooc";
  }
}

```

```

grouping PLAT-INTERVALS {
  description
    "PLAT INTERVALS";
  leaf last {
    type string;
    description

```

```

        "Last collection or reporting interval";
    }
    leaf next {
        type string;
        description
            "Next collection or reporting interval";
    }
}

grouping PLAT-SL-DETAIL {
    description
        "SL Detail";
    container collection {
        description
            "Last
and Next collection times";
        uses PLAT-INTERVALS;
    }
    container reporting {
        description
            "Last and Next reporting times";
        uses PLAT-INTERVALS;
    }
    container sia-status {
        description
            "SIA Status";
        uses PLAT-SIA-STATUS;
    }
    container upgrade-license-status {
        description
            "Upgrade License Status";
        uses PLAT-UPGRADE-LICENSE-STATUS;
    }
    container parameters {
        description
            "Parameters";
        uses PLAT-PARAMETERS;
    }
    container feature-details {
        description
            "Feature Details";
        uses FEATURE-DETAILS;
    }
}

module Cisco-IOS-XR-um-license-smart-cfg {
    namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-um-license-smart-cfg";
    prefix um-license-smart-cfg;

```

```

import Cisco-IOS-XR-types {
    prefix xr;
}
import cisco-semver {
    prefix semver;
}

organization
    "Cisco Systems, Inc.";
contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
description
    "This module contains a collection of YANG definitions
    for Cisco IOS-XR license-smart package configuration.

    This YANG module augments the
    modules with configuration data.

    Copyright (c) 2021-2022 by Cisco Systems, Inc.
    All rights reserved.";

revision 2022-03-05 {
    description
        "Model deprecated";
    semver:module-version "1.1.0";
}
revision 2021-03-03 {
    description
        "Initial release";
    semver:module-version "1.0.0";
}

feature is_software_upgrade_config_visible
{
    description
        "is software upgrade config visible";
}

feature is_reservation_config_visible {

```



```

description
  "is reservation config visible";
}

feature is_config_visible {
  description
    "is config visible";
}

container license {
  status deprecated;
  description
    "license";
  container smart {
    description
      "Smart Licensing";
  }
  container transport {
    description
      "Select the type of message transport for Smart Licensing";
    container smart {
      presence "Indicates a smart node is configured.";
      description
        "Use the http as transport";
    }
  }
}

leaf url {
  type string {
    length "1..200" {
      description
        "Set the Smart Transport URL";
    }
  }
  description
    "Set the Smart Transport Primary URL";
}

container proxy {
  description
    "Proxy
related commands";
  leaf hostname {
    type xr:Cisco-ios-xr-string {
      length "1..200" {
        description
          "address/hostname";
      }
    }
  }
  description
    "The IP address or hostname of the Proxy";
}

```

```

    }
    leaf port {
      type uint32 {
        range "0..65535" {
          description
            "proxy port";
        }
      }
      description
        "The proxy port";
    }
  }
}

container license-smart-flexible-consumption {
  if-feature "is_config_visible";
  status deprecated;
  description
    "flexible-consumption(Vortex) model";
  container enable {
    presence "Indicates a enable node is configured.";
    description
      "Enable flexible-consumption model";
  }
}

container license-smart-software-upgrade {
  if-feature "is_software_upgrade_config_visible";
  status deprecated;
  description
    "Enable
or disable the software-upgrade feature";
  container enable {
    presence "Indicates a enable node is configured.";
    description
      "Enable or disable the software-upgrade feature";
  }
}

container license-smart-reservation {
  if-feature "is_reservation_config_visible";
  presence "Indicates a reservation node is configured.";
  status deprecated;
  description
    "Enable or disable the license reservation feature";
}
}
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib

```

```

*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
    prefix "cisco-license-mgmt-mib";

    import ENTITY-MIB {
        prefix "entity-mib";
    }

    import INET-ADDRESS-MIB {
        prefix "inet-address";
    }

    import SNMP-FRAMEWORK-MIB {
        prefix "snmp-framework";
    }

    import SNMPv2-TC {
        prefix "snmpv2-tc";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Cisco Systems Inc.";

    contact
        "Cisco Systems
        Customer Service

        Postal: 170 W Tasman Drive

        San Jose, CA 95134

        USA

        Tel: +1 800 553 -NETS

```

E-mail: cs-snmp@cisco.com";

description

"The MIB module for managing licenses on the system.

The licensing mechanism provides flexibility to enforce licensing for various features in the system.

The following text introduces different concepts and terms those are necessary to understand the MIB definition and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time

and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is

recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other

similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.

3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.
6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
```

- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeaturePeriodUsed
- o Added the following notifications
 - clmgmtLicenseEvalRTUTransitionWarning
 - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
 - clmgmtLicenseRTUGroup
 - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";

}

revision 2008-11-21 {

description

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";

}

revision 2006-10-03 {

description

"Initial version of this MIB module.";

}

typedef ClmgmtLicenseIndex {

type uint32 {

range "1..4294967295";

}

```

description
"A unique value, for each license in the managed system.
It is not necessary to have values assigned contiguously.
The value for each license must remain constant
at least from one re-initialization of the entity's
network management system to the next re-initialization";
}

typedef ClmgmtLicenseIndexOrZero {
    type uint32;
    description
    "This textual convention is an extension of the ClmgmtLicenseIndex
    convention.
    The latter defines a greater than zero value
    used to identify a license in the managed system. This
    extension permits the additional value of zero. The value
    zero is object-specific and must therefore be defined as
    part of the description of any object which uses this
    syntax. Examples of the usage of zero might include
    situations where license was not present or unknown.";
}

```

```

typedef ClmgmtLicenseTransferProtocol {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "local" {
            value "2";
        }
        enum "tftp" {
            value "3";
        }
        enum "ftp" {
            value "4";
        }
        enum "rcp" {
            value "5";
        }
        enum "http" {
            value "6";
        }
        enum "scp" {
            value "7";
        }
        enum "sftp" {
            value "8";
        }
    }
}

```

```

}
description
"The transfer protocol that should be used for copying files
when performing license management. When
the protocol is
set to local(2), local file system (flash or disk) is used.
Different agents may support different transfer protocols
and the management application is expected to some how determine
which protocol is supported and use.";
}

```

```

typedef ClmgmtLicenseActionState {
type enumeration {
enum "none" {
value "1";
}
enum "pending" {
value "2";
}
enum "inProgress" {
value "3";
}
enum "successful" {
value "4";
}
enum "partiallySuccessful" {
value "5";
}
enum "failed" {
value "6";
}
}

```

description

"The state of license action execution.

none(1) - action is not yet scheduled to be
executed.

pending(2) - All the required parameters for the
action are set and the action is
scheduled
to be executed.

inProgress(3) - action execution has started and is
in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

```
failed(6)      - action has failed.";
}
```

```
typedef ClmgmtLicenseActionFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "generalFailure" {
      value "2";
    }
    enum "transferProtocolNotSupported" {
      value
"3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidLicenseFilePath" {
      value "6";
    }
    enum "invalidLicenseFile" {
      value "7";
    }
    enum "invalidLicenseLine" {
      value "8";
    }
    enum "licenseAlreadyExists" {
      value "9";
    }
    enum "licenseNotValidForDevice" {
      value "10";
    }
    enum "invalidLicenseCount" {
      value "11";
    }
  }
}
```

```

enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket"
{
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no
 errors.

generalFailure(2) - General licensing failure.
 This will be used for resource

unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

invalidLicenseFilePath(6) - The license file path is not accessible.

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in

```

        pending state. Try again in few
        seconds.
    invalidLicenseEULAFile(22) - EULA file path is not accessible.";
}

container CISCO-LICENSE-MGMT-MIB {
    config false;

    container clmgmtLicenseConfiguration {
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

    leaf clmgmtNextFreeLicenseActionIndex {
        type uint32 {
            range "1..4294967295";
        }
        description
        "This object contains appropriate value for
        clmgmtLicenseActionIndex that can be used to create
        an entry in clmgmtLicenseActionTable. The management application
        should read this object first and then use this as the
        value for clmgmtLicenseActionIndex to avoid collisions
        when creating entries in clmgmtLicenseActionTable.
        Following this approach does not guarantee collision free
        row creation, but will reduce the probability. The
        collision will happen if two management applications read this
        object at the same time and attempt to create an entry
        with this value at the same time. In this case, the
        management application whose request is processed after the first
        request will get an error and the process of reading this object
        and
        entry creation needs to be repeated.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
    }
}

container clmgmtLicenseDeviceInformation {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

    leaf clmgmtNextFreeDevCredExportActionIndex {
        type uint32;
        description
        "This object contains appropriate value for
        clmgmtDevCredExportActionIndex that can be used to create
        an entry in clmgmtDevCredExportActionTable. The management
        application should read this object first and then use this

```


as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time.

In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
}
}
```

```
container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
```

```
  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
```

```
      clmgmtLicenseExpired
      clmgmtLicenseExpiryWarning
      clmgmtLicenseUsageCountExceeded
      clmgmtLicenseUsageCountAboutToExceed
      clmgmtLicenseSubscriptionExpiryWarning
      clmgmtLicenseSubscriptionExtExpiryWarning
      clmgmtLicenseSubscriptionExpired
      clmgmtLicenseEvalRTUTransitionWarning
      clmgmtLicenseEvalRTUTransition";
```

```
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
  }
```

```
  leaf clmgmtLicenseDeploymentNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to license deployment. This object
      enables/disables sending following notifications:
```

```
      clmgmtLicenseInstalled
      clmgmtLicenseCleared
```

```

        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}

leaf clmgmtLicenseErrorNotifEnable {
    type boolean;
    description
        "This object indicates whether the device should generate
        notifications related to error conditions in enforcing
        licensing. This object enables/disables sending following
        notifications:
        clmgmtLicenseNotEnforced";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

container clmgmtLicenseActionTable {
    description
        "A table for invoking license management actions. Management
        application must create a row in this table to trigger any of
        the license management actions. The following are different
        actions that can be executed using this table.
        1. install
        2. clear
        3. processPermissionTicket
        4. regenerateLastRehostTicket
        5. backup
        6. generateEULA

        Refer to the description of clmgmtLicenseAction for more
        information on what these actions do on the device.
        Once the request completes, the management
        application should
        retrieve the values of the objects of interest, and then
        delete the entry. In order to prevent old entries from
        clogging the table, entries will be aged out, but an entry
        will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

    list clmgmtLicenseActionEntry {
        key "clmgmtLicenseActionIndex";
        description
            "An entry for each action that is being executed or was

```

executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtLicenseActionRowStatus` to `destroy(6)` when `clmgtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgtLicenseActionState`. If the action is still in `pending(2)` or in `InProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a

license

a. clmgmtLicenseActionTransferProtocol

b. clmgmtLicenseServerAddressType

c. clmgmtLicenseServerAddress

d. clmgmtLicenseServerUsername

e. clmgmtLicenseServerPassword

f. clmgmtLicenseFile

g. clmgmtLicenseStore

h. clmgmtLicenseStopOnFailure

i. clmgmtLicenseAcceptEULA

j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members within a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

a. clmgmtLicenseActionEntPhysicalIndex

b. clmgmtLicenseActionLicenseIndex

c. clmgmtLicenseStore

d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

a. clmgmtLicenseActionTransferProtocol

b. clmgmtLicenseServerAddressType

c. clmgmtLicenseServerAddress

d. clmgmtLicenseServerUsername

e. clmgmtLicenseServerPassword

f. clmgmtLicensePermissionTicketFile

g. clmgmtLicenseRehostTicketFile

h. clmgmtLicenseStopOnFailure

i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating

last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

```

except when clmgmtLicenseAction is set
    to pending(2). All entries are volatile and are cleared
    on agent reset.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {
    type uint32 {
        range "1..4294967295";
    }
    description
        "This object uniquely identifies a row in
        clmgmtLicenseActionTable. The management application should choose
        this value by reading clmgmtNextFreeLicenseActionIndex
        while creating an entry in this table. If an entry already
        exists with this index, the creation of the entry will not
        continue and error will be returned. The management application
        should read the value of clmgmtNextFreeLicenseActionIndex
        again and retry with the new value for this object.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}

leaf clmgmtLicenseActionEntPhysicalIndex
{
    type entity-mib:PhysicalIndexOrZero;
    description
        "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
        "This object represents the transfer protocol to be used
        when copying files as specified in the following objects.
        1. clmgmtLicenseFile
        2. clmgmtLicensePermissionTicketFile

```

3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system.";

```
smiv2:default "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

```
leaf clmgmtLicenseServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtLicenseServerAddress object.
    This must be set when clmgmtLicenseActionTransferProtocol
    is not none(1) or local(2).";
  smiv2:default
    "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}
```

```
leaf clmgmtLicenseServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the ip address of the server from
    which the files must be read or written to if
    clmgmtLicenseActionTransferProtocol is not none(1) or
    local(2).
```

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object";

```
smiv2:default "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
```

```
leaf clmgmtLicenseServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the
```

remote user name for accessing

files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

smiv2:defval "";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";

}

leaf clmgmtLicenseServerPassword {

type snmp-framework:SnmpAdminString {
length "0..96";

}

description

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns

a zero-length string for

security reasons.";

smiv2:defval "";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";

}

leaf clmgmtLicenseFile {

type snmp-framework:SnmpAdminString {
length "0..255";

}

description

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant.";

smiv2:defval "";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";

}

leaf clmgmtLicenseStore {

type uint32;

description

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object.";

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}
```

```
leaf clmgmtLicenseActionLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
  description
    "This object indicates the the license index of the license
    that is the subject of this action. This is used for
    identifying a license for performing actions specific to
    that license. This object need to be set only if
    clmgmtLicenseAction is set to clear(4). The value of this
    object is same as the clmgmtLicenseIndex
    object in
```

```
  clmgmtLicenseInfoEntry for license that is subject of this
  action.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}
```

```
leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}
```

```

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
    the device need to be backed up. This object need to be set
    only if clmgmtLicenseAction is set to backup(6) and the
    management application must set the value of this object
    to valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

```

```

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
    stop if the action on a license fails. This object is
    applicable only if there are more than one licenses
    involved in an action.";
  smiv2:defval "false";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

```

```

leaf clmgmtLicenseAction {
  type enumeration {

```

```

enum "noOp" {
value "1";
}
enum "install" {
value "2";
}
enum "clear" {
value "3";
}
enum "processPermissionTicket" {
value "4";
}
enum "regenerateLastRehostTicket" {
value "5";
}
enum "backup" {
value "6";
}
enum "generateEULA" {
value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	
Processes thee permission	ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.

```

generateEULA(7)          Checks whether the licenses
                           in the license file need EULA
                           acceptance and uploads the
                           needed EULA contents to a file.";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of this license action.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to

```

```

defer its license back up action to a later time. This
  object will return a value of 0 if the action is not in
  pending(2) state.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

```

```

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

```

```

leaf clmgmtLicenseActionStorageType {

```

```

type snmpv2-tc:StorageType;
description
"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row.";
smiv2:defval "volatile";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

```

```

leaf clmgmtLicenseActionRowStatus {
type snmpv2-tc:RowStatus;
description
"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtLicenseConfigCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row. It is recommended that the management application
should delete entries in this table after reading
the result. In order to prevent old entries from
clogging the table, entries will be aged out, but an
entry will never be deleted within 5 minutes of
completion";

```

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

```

```

leaf clmgmtLicenseAcceptEULA {
type boolean;
description
"This object indicates whether the End User License Agreement
needed for installing the licenses is accepted.

```

```

true(1) - EULA is read and accepted
false(2) - EULA is not accepted

```

```

Management application should set this object to true(1) when
installing licenses that need EULA acceptance.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

```

```

leaf clmgmtLicenseEULAFile {
type snmp-framework:SnmpAdminString {

```

```

    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
}

```

```

container clmgmtLicenseActionResultTable {
  description
    "This table contains results of license action if the
    license action involves multiple licenses. Entries in this
    table are not created for actions where there is
    only license that is subject of the action. For
    example, if there are 3 licenses in a license file
    when executing license install action, 3 entries will
    be created in this table, one for each license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";
}

```

```

list clmgmtLicenseActionResultEntry {
  key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
  description
    "An entry in clmgmtLicenseActionResultTable. Each entry
    contains result of the action for a single license.
    These entries are created immediately after action
    execution when the action involves multiple licenses.
    These entries get automatically deleted when the
    corresponding entry in clmgmtLicenseActionTable
    is deleted.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";
}

```

```

leaf clmgmtLicenseActionIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-
mib:clmgmtLicenseActionIndex";
  }
}

```

```

leaf clmgmtLicenseNumber {
  type uint32 {

```

```

        range "1..4294967295";
    }
    description
        "This object indicates the sequence number of this license
        in the list of licenses on which the action
is executed.
        For example, if there are 3 licenses in a license file
        when executing license install action, this object will
        have values 1, 2 and 3 respectively as ordered in the
        license file.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}

leaf clmgmtLicenseIndivActionState {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
    description
        "This object indicates the state of action on this
        individual license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
    description
        "This object indicates the reason for action failure on this
        individual license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
    description
        "This table contains information about all the license
        stores allocated on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

    list clmgmtLicenseStoreInfoEntry {
        key "entPhysicalIndex clmgmtLicenseStoreIndex";
        description
            "An entry in clmgmtLicenseStoreInfoTable. Each entry
            contains information about a license store allocated
            on the device";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";
    }
}

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a license store within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

```

```

leaf clmgmtLicenseStoreName {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the name of the license store
    within the device. It is a file in device's local file
    system i.e., either on a local disk or flash or some
    other storage media. For example, the value of this
    object can be 'disk1:lic_store_1.txt' or
    'flash:lic_store_2.txt';
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
}

```

```

leaf clmgmtLicenseStoreTotalSize {
  type uint32;
  units "bytes";
  description
    "This object indicates the total number of bytes that are
    allocated to the license store.";
  smiv2:max-access "read-only";
  smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
}

```

```

leaf clmgmtLicenseStoreSizeRemaining {
  type uint32;
  units "bytes";
  description

```



```

    "This object indicates the number of bytes still remaining
    to be used for new license installations in the license
    store.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
  }
}
}

```

```

container clmgmtLicenseDeviceInfoTable {
  description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist
    only for entities that support licensing. For example,
    if it is a stand alone device and supports licensing,
    then there will be only one entry in this table. If
    it is stackable switch then there will be multiple
    entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

  list
  clmgmtLicenseDeviceInfoEntry {
    key "entPhysicalIndex";
    description
      "An entry in clmgmtLicenseDeviceInfoTable. Each entry
      contains device level licensing information for a device.";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtDefaultLicenseStore {
      type uint32 {
        range "1..4294967295";
      }
      description
        "This object indicates the clmgmtLicenseStoreIndex of
        default store in the device. There will be only one
        default license store per device. If no license store
        is specified during license install, this default license
        store will be used.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
    }
  }
}

```

```

    }
  }
}

container clmgmtLicenseInfoTable {
  description
    "This table contains information about all the licenses
    installed on the device.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

  list clmgmtLicenseInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
    description
      "An entry in clmgmtLicenseInfoTable. Each entry contains
      information about a license installed on the device. This
      entry gets created when a license is installed successfully.
      Management application can not create these entries directly, but
      will do so indirectly by executing license install action.
      Some of these entries may already exist that correspond to
      demo licenses even before management application installs any
      licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type uint32 {
        range "1..4294967295";
      }
      description
        "This object represents the license store that is used for
        storing this license. This object will have the same value
        as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
        of the license store used.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
    }

    leaf clmgmtLicenseIndex {
      type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
      description
        "This object uniquely identifies a license within
        the device.";
    }
  }
}

```

```

    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}

leaf clmgmtLicenseFeatureName {
    type snmp-framework:SnmpAdminString
{
    length "0..128";
}
    description
        "This object indicates the name of the feature that is
        using or can use this license. A license can be used by
        only one feature. Examples of feature name are: 'IPBASE',
        'ADVIPSERVICE'.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

leaf clmgmtLicenseFeatureVersion {
    type snmp-framework:SnmpAdminString {
        length "0..128";
    }
    description
        "This object indicates the version of the feature that is
        using or can use this license. Examples of feature version
        are: '1.0', '2.0'";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

leaf clmgmtLicenseType {
    type enumeration {
        enum "demo" {
            value "1";
        }
        enum "extension"
    {
        value "2";
    }
        enum "gracePeriod" {
            value "3";
        }
        enum "permanent" {
            value "4";
        }
        enum "paidSubscription" {
            value "5";
        }
    }
}

```

```

enum "evaluationSubscription" {
    value "6";
}
enum "extensionSubscription" {
    value "7";
}
enum "evalRightToUse" {
    value "8";
}
enum "rightToUse" {
    value "9";
}
enum "permanentRightToUse" {
    value "10";
}
}

```

description

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses

have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of

licenses available for a UDI.
evalRightToUse(8) - Evaluation Right to use (RTU)
license.
rightToUse(9) - Right to use (RTU) license.
permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of
the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}
```

```
leaf clmgmtLicenseCounted {
type boolean;
description
"This object indicates whether the license is counted
license.
true(1) - counted license
false(2) - uncounted license";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}
```

```
leaf clmgmtLicenseValidityPeriod {
type uint32;
units "seconds";
description
"This object indicates the time period the license is valid for.
This object is applicable only if clmgmtLicenseType is demo(1),
or extension(2) or gracePeriod(3) or evalRightToUse(8). The
object will return
0 for other license types.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}
```

```
leaf clmgmtLicenseValidityPeriodRemaining {
type uint32;
units "seconds";
description
"This object indicates the time period remaining before the
license expires or transitions to rightToUse(9) license. This
object is applicable only if clmgmtLicenseType is demo(1), or
extension(2) or gracePeriod(3) or evalRightToUse(8). The object
will contain 0 for other license types.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
```

```

}

leaf clmgmtLicenseExpiredPeriod {
  type uint32;
  units "seconds";
  description
    "This object indicates the elapsed time period since the license
    expired. This object is applicable only if clmgmtLicenseType
    is demo(1),
or extension(2) or gracePeriod(3). Also, this
    value of this object will be valid only after the license
    expires. The object will return 0 for other license types
    or before the license expiry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

```

```

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

```

```

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
}

```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

```

leaf clmgmtLicenseStatus {
  type enumeration {
    enum "inactive" {
      value "1";
    }
    enum "notInUse" {
      value "2";
    }
    enum "inUse" {
      value "3";
    }
    enum "expiredInUse" {
      value "4";
    }
    enum "expiredNotInUse" {
      value "5";
    }
    enum "usageCountConsumed" {
      value "6";
    }
  }
  description
    "This object represents status of the license.

```

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4)

- license is expired but still
being held by the feature.
expiredNotInUse(5) - license is expired and not being
held by any feature.
usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

leaf clmgmtLicenseStartDate {
type snmpv2-tc:DateAndTime;
description
"This object indicates the start date for a subscription
license. It is optional for subscription linceses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}

leaf clmgmtLicenseEndDate {
type snmpv2-tc:DateAndTime;
description
"This object indicates the end date for a subscription license.
This object is applicable only when clmgmtLicenseType is
paidSubscription(5), evaluationSubscription(6) or
extensionSubscription (7). The object will contain an octet
string of length 0 when it is not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
type uint32;
units "seconds";
description
"This
object indicates the time period used for the
Right to use (RTU) licenses. This object is applicable for all
RTU licenses.";


```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
  }
}
}

```

```

container clmgmtLicensableFeatureTable {
  description
    "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```

```

  list clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex";
    description
      "An entry
in clmgmtLicensableFeatureTable. Each entry represents
  a licensable feature.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

  leaf clmgmtFeatureIndex {
    type uint32 {
      range "1..4294967295";
    }
    description
      "This object uniquely identifies a licensable feature in
      the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
  }

```

```

  leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {
      length "0..128";
    }
  }

```

```

description
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE';
smiv2:max-access
"read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
}

leaf clmgmtFeatureVersion {
    type snmp-framework:SnmpAdminString {
        length "0..32";
    }
    description
        "This object indicates the version of the licensable
        feature in the device. Examples of feature versions
        are: '1.0' or '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

leaf clmgmtFeatureValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before
        the feature's license expires or transitions. This object is
        applicable only if clmgmtLicenseType of the license used by
        this feature is demo(1), or extension(2) or gracePeriod(3) or
        evalRightToUse(8).

        The object will contain 0 if
other types of license is used
        or if the feature does not use any license. If the
        feature is using multiple licenses, this period will
        represent the cumulative period remaining from all the
        licenses used by this feature.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

leaf clmgmtFeatureWhatIsCounted {
    type snmp-framework:SnmpAdminString {
        length "0..128";
    }
    description
        "This object represents the entity that is being counted
        by this feature. Examples of entities are IP Phones, number

```

```

    of sessions etc. This object is only applicable for
    features that use counting licenses. For other features,
    this object will return empty string.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

leaf clmgmtFeatureStartDate {

type snmpv2-tc:DateAndTime;
description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license end date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid end date. The end date will
        be the latest of the valid end dates
of all the licenses
        used for this feature. If none of the licenses used for this
        feature have a valid end date then this object will contain an
        octet string of length 0.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
    }

leaf clmgmtFeaturePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This object indicates the license period used for the feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
    }
}
}

```

container clmgmtDevCredExportActionTable {
description
"A table for triggering device credentials export action.
Management application must create this entry to trigger the
export of device credentials from the device to a file.

Once the request completes, the management application should
retrieve the values of the objects
of interest, and then
delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

list clmgmtDevCredExportActionEntry {
key "clmgmtDevCredExportActionIndex";
description
"An entry for each device credential export action that
is being executed or was executed recently. The management
application triggers the export by creating an entry in this
table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus
to createAndGo(4) and all other required objects to valid
values in a single SNMP SET request. If all the values
are valid, the device creates the entry and executes the
action. If
the SET request fails, the entry will not be
created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to
createAndWait(5) to create an entry. Management application
can set all other required objects to valid
values in more than one SNMP SET request. If SET request
for any of the objects fails, management application can set
just only that object. Once all the required objects
are set to valid values, management application triggers action
execution by setting clmgmtDevCredExportActionStatus to
active(1).

To stop the action from being executed, the management application
can delete the entry by setting clmgmtDevCredExportActionStatus
to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by
querying
clmgmtDevCredCommandState. If the action is still in

pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

```
leaf clmgmtDevCredExportActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a row in
    clmgmtDevCredExportActionTable. The management application
    chooses this value by reading
    clmgmtNextFreeDevCredExportActionIndex while creating an
    entry in this table.
```

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";

```
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    for which the device credentials are being retrieved. This
    object is mainly used in devices where one device is acting
    as a master and rest of the devices as slaves. The master
    device is responsible for SNMP communication with the
    manager. Examples include stackable switches, devices with
    router processor and line cards.
```

Note: This object need not be set if it is a stand alone device";

smiv2:defval "0";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";

```
}
```

```
leaf clmgmtDevCredTransferProtocol {
```

```

type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
description
  "This object indicates the transfer protocol to be used when
  copying files as specified in the following objects.
  1. clmgmtDevCredExportFile
  .";
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

```

```

leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtDevCredServerAddress object.
    This must be set when clmgmtDevCredTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

  The format of this address depends on the value of the
  clmgmtDevCredServerAddressType object";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object

```

must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

```
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}
```

```
leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}
```

```
leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}
```

```
leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.
```

Command	Remarks
---------	---------

noOp(1)	No operation will be performed.
---------	---------------------------------

```

getDeviceCredentials(2)    Exports device credentials";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

```

```

leaf clmgmtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "unknownError" {
      value "2";
    }
    enum "transferProtocolNotSupported"
{
      value "3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidFile" {
      value "6";
    }
  }
  description
    "This object indicates the the reason for device
    credentials export operation failure.

```


The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row.";

smiv2:defval "volatile";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";

}

leaf clmgmtDevCredRowStatus {

type snmpv2-tc:RowStatus;

description

"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtDevCredCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row.

clmgmtDevCredExportFile is a mandatory object to be
set when creating this entry.";

smiv2:max-access "read-write";

```

        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
    }
}
}
}

```

```

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

```

```

    container object-1 {

```

```

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }
    }

```

```

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }
    }

```

```

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```

```

    container object-2 {

```

```

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

    }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
}

```

```

    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureValidityPeriodRemaining {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
  }
}

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
    {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseMaxUsageCount {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
      }
    }

```

```

  container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

```

```

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-5 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseUsageCountAboutToExceed
  {
    description

```


"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached and after that the device will not allow new entities to make use of this license.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

container object-1 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }
```

```
    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
  }
```

```
    leaf clmgmtLicenseIndex {
      type leafref {

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
```

```
    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
```

container object-2 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
```

```

mib:entPhysicalIndex";
    }
}

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }

    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseUsageCountRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
    }
  }
}

```

```

}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref
    {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
    }

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
        }
    }
}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}

notification clmgmtLicenseInstalled {
  description
    "This notification is sent when a license is installed
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
}

```

```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type

```

```

leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseType {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
}

container
object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }
}

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseCleared {
    description
      "This notification is sent when a license is cleared
      successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtLicenseStoreUsed {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
      }

      leaf clmgmtLicenseIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
      }
    }
  }

```



```

    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
      }
    }

```

```

  container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path
        "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseRevoked {
    description
    "This notification is sent when a license is revoked
    successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtLicenseStoreUsed {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
      }

      leaf clmgmtLicenseIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";

```

```

    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

container object-3 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseType {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
  }
}
}

```

```

container object-4 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseEULAAccepted {
    description
      "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtFeatureIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
      }

      leaf clmgmtFeatureName {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
  to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {

```

```

        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

```



```

}

notification clmgmtLicenseSubscriptionExpiryWarning {
  description
    "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following
    schedule:
      Once a week for the last eight weeks
      Once a day for the last week
      Once a hour for the last day";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf
    clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

  notification clmgmtLicenseSubscriptionExtExpiryWarning {
    description
  }

```

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

container object-1 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
```

container object-2 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
```

```

    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

  notification clmgmtLicenseSubscriptionExpired {
    description
      "This notification will be sent after a subscription license
      of a feature completely expires. It will be sent once a day
      after the license has completely expired";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```

```

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

notification clmgmtLicenseEvalRTUTransitionWarning {
    description
        "This notification is sent when Evaluation to Right to use (RTU)
        license transition is about to happen. The first notification
        will be sent 10 days before the transition and second
        notification will be sent 5 days before the transition.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }

  notification clmgmtLicenseEvalRTUTransition {
    description
      "This notification is sent, when a feature license transitions
      from a evaluation to a
      Right to use (RTU) license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtFeatureIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
      }

      leaf clmgmtFeatureName {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```



```

mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

```

```

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}

module Cisco-IOS-XR-smart-license-act {
  namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-act";
  prefix smart-license-act;

  import cisco-semver {
    prefix semver;
  }
  include Cisco-IOS-XR-smart-license-errors;

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This module contains a collection of YANG definitions

```

for Cisco IOS-XR action package configuration.

Copyright (c) 2016-2020 by Cisco Systems, Inc.
All rights reserved.";

```
revision 2020-07-09 {
  description
    "IOS XR 7.4.1 revision.";
  semver:module-version "1.0.0";
}

typedef operation-status-enum {
  type enumeration {
    enum "success" {
      value 0;
      description
        "Operation was a success";
    }
    enum "failed" {
      value 1;

      description
        "Operation failed";
    }
  }
  description
    "Smart license operation status";
}

typedef request-type-enum {
  type enumeration {
    enum "None" {
      value 0;
      description
        "ReservationSystemTypeNone";
    }
    enum "local" {
      value 1;
      description
        "ReservationSystemTypeLocal";
    }
    enum "all" {
      value 2;
      description
        "ReservationSystemTypeAll";
    }
    enum "universal" {
      value 3;
```

```

    description
    "ReservationSystemTypeUniversal";
  }
}
description
"Smart license reservation request type";
}

grouping overall-op-status {
  description
  "Overall operation status";
  leaf operation-status {
    type operation-status-enum;
    description
    "Status of operation: Success or Failure";
  }
  leaf return-code {
    type error-enum;
    description
    "The return code";
  }
}

grouping
smartagent-udi {
  description
  "smartagent udi";
  leaf pid {
    type string;
    description
    "The Product Identifier. Always combined with sn.";
  }
  leaf sn {
    type string;
    description
    "The system serial number. Always combined with
    pid.";
  }
  leaf vid {
    type string;
    description
    "The version identifier. Usually combined with
    pid & sn.";
  }
  leaf uuid {
    type string;
    description
    "A 32 byte hex value generated by the system."
  }
}

```

```

    This will be in proper UUID format 8-4-4-4-12.
    Often used by VMs or other systems that do not
    have a hardware identifier.";
}
leaf suvi {
    type string;
    description
        "Free form virtual identifier often used by
        software only devices like software routers or
        VMs.";
}
leaf host-identifier {
    type string;
    description
        "Host identifier available on some systems.
        Typically 8 hex digits.";
}
leaf mac-address {
    type string;
    description
        "The MAC address of the system. This is usually
        only used if there is nothing else available to
        be used as an identifier.";
}
}

```

```

grouping udi-string-data-list {
    description
        "Return codes";
    container udi {
        description
            "UDI";
        uses smartagent-udi;
    }
    leaf data {
        type string;
        description
            "Reservation codes: Example: request code if
            reservation request is being carried out,return
            code in case of reservation return etc";
    }
}

```

```

grouping res-codes {
    description
        "Return codes for SLR-PLR";
    container response {
        description

```

```

    "Contains the overall status of operation and error code";
    uses overall-op-status;
}
leaf display-string {
    type string;
    description
        "Reservation display string";
}
container udi {

description
    "UDI";
    uses smartagent-udi;
}
leaf request-code {
    type string;
    description
        "Reservation request code";
}
leaf confirmation-code {
    type string;
    description
        "Reservation request code";
}
leaf reservation-return-code {
    type string;
    description
        "Reservation request code";
}
}

rpc de-register {
    description
        "De-register. This will immediately de-register the device.
        If state:operational-mode=opr-mode-reporting then this will return
        notsupported in output:return-code";
    output {
        container response {
            description
                "Contains the overall status of operation and error code";
            uses overall-op-status;
        }
    }
}

rpc renew-id {
    description
        "Under normal operations smart licensing will automatically renew
        the ID certificates used for regsitration. This command can

```

```

    be used if the customer wants to
initiate a manual
    registration renewal.
    If state:operational-mode=opr-mode-reporting then this
    will return notsupported in output:return-code";
output {
    container response {
        description
            "Contains the overall status of operation and error code";
        uses overall-op-status;
    }
}
}
rpc renew-auth {
    description
        "Under normal operations smart licensing will automatically renew
        the license authorization every 30 days. This command can
        be used if the customer wants to initiate a manual
        renewal.
        If state:operational-mode=opr-mode-reporting then this
        will return notsupported in output:return-code";
    output {
        container response {
            description
                "Contains the overall status of operation and error code";
            uses overall-op-status;
        }
    }
}
rpc register-id-token {
    description
        "Register with an ID token.
        This will begin the registration
process. Since the registration
        process will take somewhere between seconds and hours you must get the
        registration-success or registration-fail notifications
        or check the registration status in smart-license:state
        to know the status of the registration.
        If state:operational-mode=opr-mode-reporting then this
        will return notsupported in output:return-code";
    input {
        leaf id-token {
            type string {
                length "1..255";
            }
            description
                "The ID token used to register.";
        }
    }
}

```

```

leaf force {
  type boolean;
  default "false";
  description
    "Force the registration if set.";
}
}
output {
  container response {
    description
      "Contains the overall status of operation and error code";
    uses overall-op-status;
  }
}
}
rpc reservation-request {
  description
    "Reservation request for PLR/SLR mode";
  input {

leaf request-type {
  type request-type-enum;
  description
    "Reservation request type";
}
}
output {
  container reservation-codes {
    description
      "Contains return code information of operation";
    uses res-codes;
  }
}
}
rpc reservation-return {
  description
    "Return reservation for the active system";
  input {
    leaf request-type {
      type request-type-enum;
      description
        "Reservation request type";
    }
  }
  output {
    container reservation-codes {
      description
        "Contains return code information of operation";

```



```

    uses res-codes;
  }
}
}
rpc reservation-return-authorization {
  description
    "Return a smart license reservation from an authorization code.";
  input {
    leaf auth-code {
      type string;
      description
        "Auth code to be returned";
    }
    container file {
      description

        "Return auth code from file";
      leaf file-path {
        type string;
        description
          "File containing auth code to be returned";
      }
    }
  }
  output {
    container reservation-codes {
      description
        "Contains return code information of operation";
      uses res-codes;
    }
  }
}
rpc reservation-install {
  description
    "Install a smart license reservation authorization code";
  input {
    leaf authorization-code {
      type string;
      description
        "Install the auth code";
    }
    container file {
      description
        "Install auth code from file";
      leaf file-path {
        type string;
        description
          "File containing auth code to be installed";
      }
    }
  }
}

```

```

    }
  }
}
output {
  container reservation-codes {
    description
      "Contains return code information of operation";
    uses res-codes;
  }
}
}
rpc
reservation-cancel {
  description
    "Cancel reservation for the active system";
  input {
    leaf request-type {
      type request-type-enum;
      description
        "Reservation request type";
    }
  }
  output {
    container response {
      description
        "Contains the overall status of operation and error code";
      uses overall-op-status;
    }
  }
}
}
}
-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
  OBJECT-TYPE,
  MODULE-IDENTITY,
  Unsigned32,

```

NOTIFICATION-TYPE

FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP

FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue

FROM SNMPv2-TC
SnmAdminString
FROM SNMP-FRAMEWORK-MIB

entPhysicalIndex
FROM ENTITY-MIB
ciscoMgmt

FROM CISCO-SMI;

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "200710160000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level. This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined

based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.
- No upgrades available for advservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the image level.

If the device is running at advipservices
image level, then the boot image level will
be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the list of license names.

If multiple licenses
are present then this string will contain all
the licenses seperated by the ',' character.

If the license required to run a device at
advipservices image level is advipservices and
advsecurity, then the license name list will be
'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of
current and next boot image level. This table contains
entries for each software module running in an image
loaded in the device. The software module is identified by

cilmModuleName and the device is identified by
entPhysicalIndex."
 ::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license."

INDEX {
entPhysicalIndex,
cilmModuleName
}

::= { cilmBootImageLevelTable 1 }

CilmBootImageLevelEntry ::= SEQUENCE {
cilmModuleName SnmpAdminString,
cilmCurrentImageLevel
BootImageLevel,
cilmConfiguredBootImageLevel BootImageLevel,
cilmNextBootImageLevel BootImageLevel,
cilmCurrentLicenseStoreIndex Unsigned32,
cilmCurrentLicenseIndex Unsigned32,
cilmNextBootLicenseStoreIndex Unsigned32,
cilmNextBootLicenseIndex Unsigned32
}

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple

modules in an image performing specific functionality.
For example, in a wireless image there can be two modules
- a base image module and a wireless module."

::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the current image level that
the module is running."

::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the configured image level
of the module for the next boot.

Note: The configured next boot image level may not
be the actual next boot image level. The actual next
boot image level is denoted by cilmNextBootImageLevel
which is determined based on the license availability."

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the next boot image level. The
next boot image level can be different from configured
level. The next boot

image level is determined based
on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the
currently used license is stored. This object has the same

value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex

and

uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the next boot

license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
entPhysicalIndex,
cilmModuleName,
cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {
cilmImageLicenseMapIndex Unsigned32,
cilmImageLicenseImageLevel BootImageLevel,
cilmImageLicenseName LicenseNameList,
cilmImageLicensePriority Unsigned32
}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running index used to identify an entry of this table."

::= { cilImageLevelToLicenseMapEntry 1 }

cilImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which a module can be run. A module can be run at different image levels. An entry will be created in this table for every module and image level combination."

::= { cilImageLevelToLicenseMapEntry 2 }

cilImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilImageLicenseImageLevel object of this entry."

::= { cilImageLevelToLicenseMapEntry 3 }

cilImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absense of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specify whether or not a notification should be generated on the detection of change in next boot image level.

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered."

REFERENCE

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document."

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

```

OBJECTS      {
    cilmCurrentImageLevel,
    cilmConfiguredBootImageLevel
}
STATUS       current
DESCRIPTION
    "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmCurrentImageLevel
    and cilmConfiguredBootImageLevel objects respectively."
::= { ciscoImageLicenseMgmtMIBNotifs 1 }
-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE
    STATUS       current
    DESCRIPTION
        "Compliance statement for Cisco Image level license mgmt MIB."
    MODULE       -- this module
    MANDATORY-GROUPS {
        cilmAdminGroup,
        cilmNotifGroup
    }

    GROUP        cilmOperGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license are supported."
    ::= { cilmModuleCompliances 1 }

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,

```

```

        cilmImageLevelChangedNotif

    }
    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }
    STATUS      current
    DESCRIPTION
        "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
    NOTIFICATIONS { cilmBootImageLevelChanged }
    STATUS      current
    DESCRIPTION
        "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
    FROM SNMPv2-SMI
    MODULE-COMPLIANCE,

```

OBJECT-GROUP,
NOTIFICATION-GROUP
FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue,
RowStatus,
StorageType,
DateAndTime
FROM SNMPv2-TC
SnmAdminString
FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex,
PhysicalIndexOrZero
FROM ENTITY-MIB
InetAddressType,
InetAddress
FROM INET-ADDRESS-MIB
ciscoMgmt
FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"
ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a

device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management

interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket

is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.

2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE

& EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to

the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
evalRightToUse
rightToUse
- o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
- o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:

```

    paidSubscription
    evaluationSubscription
    extensionSubscription
  o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicenseStartDate
    clmgmtLicenseEndDate
  o Added following
objects to clmgmtLicensableFeatureTable
    clmgmtFeatureStartDate
    clmgmtFeatureEndDate
  o Added the following notifications
    clmgmtLicenseSubscriptionExpiryWarning
    clmgmtLicenseSubscriptionExtExpiryWarning
    clmgmtLicenseSubscriptionExpired
  o Added the following conformance groups
    clmgmtLicenseSubscriptionGroup
    clmgmtLicenseSubscriptionUsageNotifGroup
  The new module compliance is ciscoLicenseMgmtComplianceRev1."
REVISION      "200610030000Z"
DESCRIPTION
  "Initial version of this MIB module."
 ::= { ciscoMgmt 543 }

```

```

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 0 }

```

```

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 1 }

```

```

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 2 }

```

```

clmgmtLicenseConfiguration OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 1 }

```

```

clmgmtLicenseInformation
OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 2 }

```

```

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 3 }

```

```

clmgmtLicenseNotifObjects OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 4 }

```

```

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

```

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.
It is not necessary to have values assigned contiguously.
The value for each license must remain constant
at least from one re-initialization of the entity's
network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex
convention. The latter defines a greater than zero value
used to identify a license in the managed system.

This

extension permits the additional value of zero. The value
zero is object-specific and must therefore be defined as
part of the description of any object which uses this
syntax. Examples of the usage of zero might include
situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files
when performing license management. When the protocol is
set to local(2), local file system (flash or disk) is used.
Different agents may support different transfer protocols
and the management application is expected to some how determine
which protocol is supported and use."

SYNTAX INTEGER {
 none(1),
 local(2),
 tftp(3),
 ftp(4),
 rcp(5),
 http(6),
 scp(7),
 sftp(8)
}

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

none(1) - action is not yet scheduled to be executed.

pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.

inProgress(3) - action execution has started and is in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

```
SYNTAX      INTEGER {  
    none(1),  
    pending(2),  
    inProgress(3),  
    successful(4),  
    partiallySuccessful(5),  
    failed(6)  
}
```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

generalFailure(2) - General licensing failure. This will be used for resource

unavailability failures.
 Ex: Lack of memory.
 transferProtocolNotSupported(3) - protocol selected is not supported.
 fileServerNotReachable(4) - file server is not reachable.
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid
 invalidLicenseFilePath(6) - The license file path is not accessible.
 invalidLicenseFile(7) - Contents of license file are not valid.
 invalidLicenseLine(8) - License string in the license file is not valid.
 licenseAlreadyExists(9) - Management application is trying to install a license that already exists.
 licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.
 invalidLicenseCount(11) - Invalid count for this counted license.
 invalidLicensePeriod(12) - Validity period is invalid for this expiring license.
 licenseInUse(13) - License file is in use by a feature/image.
 invalidLicenseStore(14) - License store is not valid.
 licenseStorageFull(15) - There is no more space in the license storage.
 invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.
 invalidPermissionTicket(17) - The permission ticket file contents are not valid.
 invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.
 invalidRehostTicket(19) - The rehost ticket file contents are not valid.
 invalidLicenseBackupFile(20) - License backup store path is not accessible.
 licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear

action is in progress or in
pending state. Try again in few
seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX INTEGER {
 none(1),
 generalFailure(2),
 transferProtocolNotSupported(3),
 fileServerNotReachable(4),
 unrecognizedEntPhysicalIndex(5),
 invalidLicenseFilePath(6),
 invalidLicenseFile(7),
 invalidLicenseLine(8),
 licenseAlreadyExists(9),
 licenseNotValidForDevice(10),
 invalidLicenseCount(11),

 invalidLicensePeriod(12),
 licenseInUse(13),
 invalidLicenseStore(14),
 licenseStorageFull(15),
 invalidPermissionTicketFile(16),
 invalidPermissionTicket(17),
 invalidRehostTicketFile(18),
 invalidRehostTicket(19),
 invalidLicenseBackupFile(20),
 licenseClearInProgress(21),
 invalidLicenseEULAFile(22)
 }

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for
clmgmtLicenseActionIndex that can be used to create
an entry in clmgmtLicenseActionTable. The management application
should read this object first and then use this as the
value

for clmgmtLicenseActionIndex to avoid collisions
when creating entries in clmgmtLicenseActionTable.
Following this approach does not guarantee collision free
row creation, but will reduce the probability. The
collision will happen if two management applications read this
object at the same time and attempt to create an entry
with this value at the same time. In this case, the
management application whose request is processed after the first

request will get an error and the process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was

executed recently. The management application executes an action

by creating this entry. This can be done in the following

2 methods

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the

action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtLicenseActionRowStatus` to `destroy(6)` when `clmgtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgtLicenseActionTransferProtocol`
- b. `clmgtLicenseServerAddressType`
- c. `clmgtLicenseServerAddress`
- d. `clmgtLicenseServerUsername`
- e. `clmgtLicenseServerPassword`
- f. `clmgtLicenseFile`
- g. `clmgtLicenseStore`
- h. `clmgtLicenseStopOnFailure`
- i. `clmgtLicenseAcceptEULA`
- j. `clmgtLicenseAction`

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }  
 ::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {  
    clmgmtLicenseActionIndex      Unsigned32,  
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,  
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,  
    clmgmtLicenseServerAddressType  InetAddressType,  
    clmgmtLicenseServerAddress      InetAddress,  
    clmgmtLicenseServerUsername     SnmpAdminString,  
    clmgmtLicenseServerPassword     SnmpAdminString,
```

```

    clmgmtLicenseFile          SnmpAdminString,
    clmgmtLicenseStore         Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile    SnmpAdminString,
    clmgmtLicenseBackupFile          SnmpAdminString,
    clmgmtLicenseStopOnFailure       TruthValue,
    clmgmtLicenseAction              INTEGER,
    clmgmtLicenseActionState         ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition        Unsigned32,
    clmgmtLicenseActionFailCause     ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType   StorageType,
    clmgmtLicenseActionRowStatus     RowStatus,
    clmgmtLicenseAcceptEULA          TruthValue,
    clmgmtLicenseEULAFile            SnmpAdminString
}

```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on

the master device. Note: This object need not be set if there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object.

This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the
clmgtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgtLicenseActionEntry 5 }

clmgtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgtLicenseActionEntry 6 }

clmgtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgtLicenseActionEntry 7 }

clmgtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {

noOp(1),

install(2),

clear(3),

```

        processPermissionTicket(4),
        regenerateLastRehostTicket(5),
        backup(6),
        generateEULA(7)
    }
MAX-ACCESS    read-create
STATUS
current
DESCRIPTION
    "This object indicates the the command/action to be executed.

```

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.
generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."

```

DEFVAL      { noOp }
::= { clmgmtLicenseActionEntry 15 }

```

```

clmgmtLicenseActionState OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionState
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the state of this license action."
::= { clmgmtLicenseActionEntry 16 }

```

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management

application can make

intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry.

Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion"

```
::= { clmgtLicenseActionEntry 20 }
```

clmgtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

Management application should set this object to true(1) when installing licenses that need EULA acceptance."

DEFVAL { false }

```
::= { clmgtLicenseActionEntry 21 }
```

clmgtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to

be set only if clmgtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

```
::= { clmgtLicenseActionEntry 22 }
```

-- License action results table.

clmgtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license.

These entries are created immediately after action execution when the action involves multiple licenses.

These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

INDEX {
 clmgmtLicenseActionIndex,
 clmgmtLicenseNumber
 }

::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
 clmgmtLicenseNumber Unsigned32,
 clmgmtLicenseIndivActionState ClmgmtLicenseActionState,
 clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed.

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the

license file."
::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE
SYNTAX ClmgmtLicenseActionState
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the state of action on this
individual license."
::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
SYNTAX ClmgmtLicenseActionFailCause
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the reason for action failure
on this
individual license"
::= { clmgmtLicenseActionResultEntry 3 }

-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
SYNTAX SEQUENCE OF ClmgmtLicenseStoreInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains information about all the license
stores allocated on the device."
::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
SYNTAX ClmgmtLicenseStoreInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in clmgmtLicenseStoreInfoTable. Each entry
contains information about a license store allocated
on the device"
INDEX {
entPhysicalIndex,
clmgmtLicenseStoreIndex
}
::= { clmgmtLicenseStoreInfoTable 1 }

```

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreIndex
        Unsigned32,
    clmgmtLicenseStoreName      SnmpAdminString,
    clmgmtLicenseStoreTotalSize Unsigned32,
    clmgmtLicenseStoreSizeRemaining Unsigned32
}

```

```

clmgmtLicenseStoreIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..4294967295)
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This object uniquely identifies a license store within
        the device."
    ::= { clmgmtLicenseStoreInfoEntry 1 }

```

```

clmgmtLicenseStoreName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE (0..255))
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "This object indicates the name of the license store
        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt'
    ::= { clmgmtLicenseStoreInfoEntry
    2 }

```

```

clmgmtLicenseStoreTotalSize OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS        "bytes"
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "This object indicates the total number of bytes that are
        allocated to the license store."
    ::= { clmgmtLicenseStoreInfoEntry 3 }

```

```

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS        "bytes"
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "This object indicates the number of bytes still remaining

```


to be used for new license installations in the license store."

::= { clmgmtLicenseStoreInfoEntry 4 }

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information

at the device level. Entries will exist

only for entities that support licensing. For example,

if it is a stand alone device and supports licensing,

then there will be only one entry in this table. If

it is stackable switch then there will be multiple

entries with one entry for each device in the stack."

::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device."

INDEX { entPhysicalIndex }

::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {

clmgmtDefaultLicenseStore Unsigned32

}

clmgmtDefaultLicenseStore OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the clmgmtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used."

::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about all the licenses installed on the device."

::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

INDEX {
 entPhysicalIndex,
 clmgmtLicenseStoreUsed,
 clmgmtLicenseIndex
}

::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {

 clmgmtLicenseStoreUsed Unsigned32,
 clmgmtLicenseIndex ClmgmtLicenseIndex,
 clmgmtLicenseFeatureName SnmpAdminString,
 clmgmtLicenseFeatureVersion SnmpAdminString,
 clmgmtLicenseType INTEGER,
 clmgmtLicenseCounted TruthValue,
 clmgmtLicenseValidityPeriod Unsigned32,
 clmgmtLicenseValidityPeriodRemaining Unsigned32,
 clmgmtLicenseExpiredPeriod Unsigned32,
 clmgmtLicenseMaxUsageCount Unsigned32,
 clmgmtLicenseUsageCountRemaining Unsigned32,
 clmgmtLicenseEULAStatus TruthValue,
 clmgmtLicenseComments SnmpAdminString,

```

    clmgmtLicenseStatus      INTEGER,
    clmgmtLicenseStartDate   DateAndTime,
    clmgmtLicenseEndDate     DateAndTime,
    clmgmtLicensePeriodUsed  Unsigned32
}

```

clmgmtLicenseStoreUsed OBJECT-TYPE

```

SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used."
 ::= { clmgmtLicenseInfoEntry
1 }

```

clmgmtLicenseIndex OBJECT-TYPE

```

SYNTAX      ClmgmtLicenseIndex
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a license within
    the device."
 ::= { clmgmtLicenseInfoEntry 2 }

```

clmgmtLicenseFeatureName OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'."
 ::= { clmgmtLicenseInfoEntry 3 }

```

clmgmtLicenseFeatureVersion OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version
    are: '1.0', '2.0'"
 ::= { clmgmtLicenseInfoEntry 4 }

```

clmgmtLicenseType OBJECT-TYPE

```
SYNTAX      INTEGER {  
    demo(1),  
    extension(2),  
    gracePeriod(3),  
    permanent(4),  
    paidSubscription(5),  
    evaluationSubscription(6),  
    extensionSubscription(7),  
    evalRightToUse(8),  
    rightToUse(9),  
    permanentRightToUse(10)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date

associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
 license.
 rightToUse(9) - Right to use (RTU) license.
 permanentRightToUse(10) ? Right To Use license right after it is configured
 and is valid for the lifetime of the product.
 This is a Right To Use license which is not in
 evaluation mode for a limited time."

```
::=
{ clmgmtLicenseInfoEntry 5 }
```

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates whether the license is counted
 license.
 true(1) - counted license
 false(2) - uncounted license"
 ::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32
 UNITS "seconds"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the time period the license is valid for.
 This object is applicable only if clmgmtLicenseType is demo(1),
 or extension(2) or gracePeriod(3) or evalRightToUse(8). The
 object will return 0 for other license types."
 ::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32
 UNITS "seconds"
 MAX-ACCESS read-only
 STATUS
 current
 DESCRIPTION
 "This object indicates the time period remaining before the
 license expires or transitions to rightToUse(9) license. This
 object is applicable only if clmgmtLicenseType is demo(1), or
 extension(2) or gracePeriod(3) or evalRightToUse(8). The object
 will contain 0 for other license types."
 ::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user
accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {
 inactive(1),
 notInUse(2),
 inUse(3),
 expiredInUse(4),
 expiredNotInUse(5),
 usageCountConsumed(6)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but not active.

notInUse(2) - license is installed and available for use.

inUse(3) - the license is being used (by a feature).

expiredInUse(4) - license is expired but still being held by the feature.

expiredNotInUse(5) - license is expired and not being held by any feature.

usageCountConsumed(6) - number of entities using this licenses has reached the allowed limit, no new entities are allowed to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

indicates the start date for a subscription

license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only when `clmgtLicenseType` is `paidSubscription(5)`, `evaluationSubscription(6)` or `extensionSubscription(7)`.

The object will contain an octet string of length 0 when it is not applicable."

::= { clmgtLicenseInfoEntry 15 }

`clmgtLicenseEndDate` OBJECT-TYPE

SYNTAX `DateAndTime`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the end date for a subscription license.

This object is applicable only when `clmgtLicenseType` is `paidSubscription(5)`, `evaluationSubscription(6)` or `extensionSubscription(7)`. The object will contain an octet string of length 0 when it is not applicable."

::= { clmgtLicenseInfoEntry

16 }

`clmgtLicensePeriodUsed` OBJECT-TYPE

SYNTAX `Unsigned32`

UNITS `"seconds"`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the time period used for the

Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgtLicenseInfoEntry 17 }

-- Licensable features information table.

`clmgtLicensableFeatureTable` OBJECT-TYPE

SYNTAX `SEQUENCE OF ClmgtLicensableFeatureEntry`

MAX-ACCESS `not-accessible`

STATUS `current`

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

INDEX {
 entPhysicalIndex,
 clmgmtFeatureIndex
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

 clmgmtFeatureIndex Unsigned32,
 clmgmtFeatureName SnmpAdminString,
 clmgmtFeatureVersion SnmpAdminString,
 clmgmtFeatureValidityPeriodRemaining Unsigned32,
 clmgmtFeatureWhatIsCounted SnmpAdminString,
 clmgmtFeatureStartDate DateAndTime,
 clmgmtFeatureEndDate DateAndTime,
 clmgmtFeaturePeriodUsed Unsigned32

}

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature.
This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature.
This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtDevCredExportActionIndex that can be used to create an entry in clmgmtDevCredExportActionTable. The management application should read this object first and then use this

as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

```
::= { clmgmtLicenseDeviceInformation 1 }
```

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

```
::= { clmgmtLicenseDeviceInformation 2 }
```

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be

created.

2. CREATE-AND-WAIT method

Management application sets `clmngmtDevCredExportActionStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmngmtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmngmtDevCredExportActionStatus` to `destroy(6)` when `clmngmtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying `clmngmtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can

be retrieved from `clmngmtDevCredCommandFailCause`.

Entry can be deleted except when `clmngmtLicenseAction` is set to `inProgress(3)`. All entries in this table are volatile and are cleared on agent reset."

```
INDEX      { clmngmtDevCredExportActionIndex }
::= { clmngmtDevCredExportActionTable 1 }
```

```
ClmngmtDevCredExportActionEntry ::= SEQUENCE {
    clmngmtDevCredExportActionIndex Unsigned32,
    clmngmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
    clmngmtDevCredTransferProtocol  ClmngmtLicenseTransferProtocol,
    clmngmtDevCredServerAddressType InetAddressType,
    clmngmtDevCredServerAddress     InetAddress,
    clmngmtDevCredServerUsername    SnmpAdminString,
    clmngmtDevCredServerPassword    SnmpAdminString,
    clmngmtDevCredExportFile        SnmpAdminString,
    clmngmtDevCredCommand           INTEGER,
    clmngmtDevCredCommandState      ClmngmtLicenseActionState,
    clmngmtDevCredCommandFailCause  INTEGER,
    clmngmtDevCredStorageType       StorageType,
    clmngmtDevCredRowStatus         RowStatus
}
```

`clmngmtDevCredExportActionIndex` OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
getDeviceCredentials(2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

Command	Remarks

noOp(1)	No operation will be performed.
getDeviceCredentials(2)	Exports device credentials"

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {
 none(1),
 unknownError(2),
 transferProtocolNotSupported(3),
 fileServerNotReachable(4),
 unrecognizedEntPhysicalIndex(5),
 invalidFile(6)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the the reason for device
credentials export operation failure.

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no operation is
performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex

is not

valid

invalidFile(6) - The target file specified is not valid."

::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtDevCredCommandStatus is set to a value
other than

inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row.

clmgmtDevCredExportFile is a mandatory object to be
set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"This object indicates whether the device should generate
the notifications related to usage of licenses. This object
enables/disables sending following notifications:

clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"This object indicates whether the device should generate

notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object

enables/disables sending following notifications:

clmgmtLicenseNotEnforced"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
}

STATUS current

DESCRIPTION

"This notification is sent, when a feature license expires. This notification will be sent continuously every week even after the expiry to alert the management application."

::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}

STATUS current

DESCRIPTION

"This notification is sent when a license is about to

expire. This notification will go out multiple times.
First notification goes out when expiry day is 4 weeks
ahead, second notification when expiry day is 3 weeks
ahead, third notification when expiry day is 2 weeks
ahead. This notification will go out daily in the
last week of license expiry."

::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseMaxUsageCount,
 clmgmtFeatureWhatIsCounted,
 clmgmtLicenseComments
}

STATUS current

DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining
has reached clmgmtLicenseMaxUsageCount for a counting license."

::= { ciscoLicenseMgmtMIBNotifs 3 }

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtFeatureWhatIsCounted,
 clmgmtLicenseComments
}

STATUS current

DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining
has reached 80% of clmgmtLicenseMaxUsageCount for a counting
license. This is a warning notification to the management
application that very soon the maximum count will be reached
and after that the device will not allow new entities to
make use of this license."

::= { ciscoLicenseMgmtMIBNotifs 4 }

clmgmtLicenseInstalled NOTIFICATION-TYPE

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,

 clmgmtLicenseType,
 clmgmtLicenseComments
}

```

    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when a license is installed
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 5 }

```

clmgmtLicenseCleared NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,
        clmgmtLicenseType,
        clmgmtLicenseComments
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when a license is cleared
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 6 }

```

clmgmtLicenseRevoked NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,
        clmgmtLicenseType,
        clmgmtLicenseComments
    }
    STATUS
        current
    DESCRIPTION
        "This notification is sent when a license is revoked
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 7 }

```

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when a user accepts End User
        License Agreement (EULA) for a license."
    ::= { ciscoLicenseMgmtMIBNotifs 8 }

```

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtFeatureName,

```

```

        clmgmtFeatureVersion
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when a license does not
        exist for a feature, but the feature is a mandatory
        feature and it should run. This notification will be
        sent out periodically to indicate that there is no

```

```

license installed for this feature and it needs to
    be done as soon as possible."

```

```

::= { ciscoLicenseMgmtMIBNotifs 9 }

```

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion,
        clmgmtFeatureEndDate
    }

```

```

    STATUS      current

```

DESCRIPTION

```

        "This notification is sent when a subscription license of a
        feature is about to expire. This notification will be sent as
        per the following schedule:

```

```

        Once a week for the last eight weeks

```

```

        Once a day for the last week

```

```

        Once a hour for the last day"

```

```

::= { ciscoLicenseMgmtMIBNotifs 10 }

```

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion,
        clmgmtFeatureEndDate
    }

```

```

    STATUS

```

```

current

```

DESCRIPTION

```

        "This notification is sent when the subscription license end
        date of a feature is reached but extension period is left. This
        notification will be sent once a day after the license end date
        is reached."

```

```

::= { ciscoLicenseMgmtMIBNotifs 11 }

```

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion,

```

```

        clmgmtFeatureEndDate
    }
    STATUS      current
    DESCRIPTION
        "This notification will be sent after a subscription license
        of a feature completely expires. It will be sent once a day
        after the license has completely expired"
    ::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE
    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion,
        clmgmtFeatureValidityPeriodRemaining
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when Evaluation to Right to use (RTU)
        license transition is about to happen. The first notification
        will be sent 10 days before the transition and second
        notification will be sent 5 days before the transition."
    ::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
    OBJECTS      {
        clmgmtFeatureName,
        clmgmtFeatureVersion
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent, when a feature license transitions
        from a evaluation to a Right to use (RTU) license."
    ::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
    ::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
    ::= { ciscoLicenseMgmtMIBConform 2 }

ciscoLicenseMgmtCompliance
MODULE-COMPLIANCE
    STATUS      deprecated
    DESCRIPTION
        "Compliance statement for Cisco license mgmt MIB."
    MODULE      -- this module

```

```
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}
```

```
GROUP      clmgmtLicenseStoreInformationGroup
```

```
DESCRIPTION
```

```
"This group is mandatory for all devices where
multiple license stores are supported."
```

```
::= { ciscoLicenseMgmtCompliances 1 }
```

```
ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
```

```
STATUS      current
```

```
DESCRIPTION
```

```
"Compliance statement for Cisco license mgmt MIB."
```

```
MODULE      -- this module
```

```
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}
```

```
GROUP      clmgmtLicenseStoreInformationGroup
```

```
DESCRIPTION
```

```
"This group is mandatory for all devices where
multiple license stores are supported."
```

```
GROUP      clmgmtLicenseSubscriptionGroup
```

```
DESCRIPTION
```

```
"This object group is mandatory for all devices
that
support subscription licensing."
```

```
GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
```

```
DESCRIPTION
```


"This notification group is mandatory for all devices that support subscription licensing."

GROUP clmgmtLicenseRTUGroup

DESCRIPTION

"This object group is mandatory for all devices that support Right to Use (RTU) licensing."

GROUP clmgmtLicenseRTUUsageNotifGroup

DESCRIPTION

"This notification group is mandatory for all devices that support Right to use (RTU) licensing."

::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP

OBJECTS {

 clmgmtNextFreeLicenseActionIndex,
 clmgmtLicenseActionEntPhysicalIndex,
 clmgmtLicenseActionTransferProtocol,
 clmgmtLicenseServerAddressType,
 clmgmtLicenseServerAddress,
 clmgmtLicenseServerUsername,
 clmgmtLicenseServerPassword,
 clmgmtLicenseFile,
 clmgmtLicenseStore,
 clmgmtLicenseActionLicenseIndex,
 clmgmtLicensePermissionTicketFile,
 clmgmtLicenseRehostTicketFile,
 clmgmtLicenseBackupFile,
 clmgmtLicenseStopOnFailure,
 clmgmtLicenseAction,
 clmgmtLicenseActionState,
 clmgmtLicenseJobQPosition,
 clmgmtLicenseActionFailCause,
 clmgmtLicenseActionStorageType,
 clmgmtLicenseActionRowStatus,
 clmgmtLicenseIndivActionState,
 clmgmtLicenseIndivActionFailCause,
 clmgmtLicenseAcceptEULA,
 clmgmtLicenseEULAFile

}

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseStoreName,
 clmgmtLicenseStoreTotalSize,
 clmgmtLicenseStoreSizeRemaining
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP

OBJECTS { clmgmtDefaultLicenseStore }

STATUS current

DESCRIPTION

"A collection of objects that provide information about
device level licensing support information in the device."

::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseCounted,
 clmgmtLicenseValidityPeriod,
 clmgmtLicenseValidityPeriodRemaining,
 clmgmtLicenseExpiredPeriod,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtLicenseEULAStatus,
 clmgmtLicenseComments,
 clmgmtLicenseStatus
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
}

```

        clmgmtFeatureValidityPeriodRemaining,
        clmgmtFeatureWhatIsCounted
    }
STATUS      current
DESCRIPTION
    "A collection of objects that provide information about
    licensable features in the software image."
::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeDevCredExportActionIndex,
    clmgmtDevCredEntPhysicalIndex,
    clmgmtDevCredTransferProtocol,
    clmgmtDevCredServerAddressType,
    clmgmtDevCredServerAddress,
    clmgmtDevCredServerUsername,
    clmgmtDevCredServerPassword,
    clmgmtDevCredExportFile,
    clmgmtDevCredCommand,
    clmgmtDevCredCommandState,
    clmgmtDevCredCommandFailCause,

    clmgmtDevCredStorageType,
    clmgmtDevCredRowStatus
}
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,

```

```

        clmgmtLicenseExpiryWarning,
        clmgmtLicenseUsageCountExceeded,

        clmgmtLicenseUsageCountAboutToExceed
    }
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,
    clmgmtLicenseRevoked,
    clmgmtLicenseEULAAccepted
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license deployment."
::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { clmgmtLicenseNotEnforced }
STATUS      current
DESCRIPTION
    "A collection of notifications related to license errors."
::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
OBJECTS     {
    clmgmtLicenseStartDate,
    clmgmtLicenseEndDate,
    clmgmtFeatureStartDate,
    clmgmtFeatureEndDate
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    subscription licenses."
::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseSubscriptionExpiryWarning,
    clmgmtLicenseSubscriptionExtExpiryWarning,
    clmgmtLicenseSubscriptionExpired
}

```

```

STATUS      current
DESCRIPTION
    "A collection of notifications related to usage of subscription
    licenses."
::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicensePeriodUsed,
    clmgmtFeaturePeriodUsed

}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    Right to use (RTU) licenses."
::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
::= { ciscoLicenseMgmtGroups 14 }

```

END

```
--%DNP% MLC -Edit MLC
```

```
--%DNP% MTF -TRUE MTF
```

```
/*
```

```
* Generated by ncsc --mib2yang-std
```

```
* Source: newjuniper/JUNIPER-LICENSE-MIB.mib
```

```
*/
```

```
/*
```

```
* This YANG module has been generated by smidump 0.5.0:
```

```
*
```

```
* smidump -f yang JUNIPER-LICENSE-MIB
```

```
*
```

```
* Do not edit. Edit the source file instead!
```

```
*/
```

```
module JUNIPER-LICENSE-MIB {
```

```

namespace "urn:ietf:params:xml:ns:yang:smiv2:JUNIPER-LICENSE-MIB";
prefix "juniper-license";

import SNMPv2-TC {
    prefix "snmpv2-tc";
}

import ietf-yang-smiv2 {
    prefix "smiv2";
}

organization
    "Juniper Networks, Inc.";

contact
    "Juniper Technical Assistance Center
    Juniper Networks, Inc.
    1133 Innovation Way
    Sunnyvale, CA 94089
    E-mail: support@juniper.net";

description
    "Implementation of enterprise specific MIB
    for license commands and configuration.";

revision 2019-06-17 {
    description
        "Deprecated jnxLicenseKeys.";
}

revision 2016-12-15 {
    description
        "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired";
}

revision 2010-07-09
{
    description
        "Initial version.";
}

container JUNIPER-LICENSE-MIB {
    config false;

    container jnxLicenseSettings {
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
    }
}

```

```

leaf jnxLicenseRenewBeforeExpiration {
  type int32;
  description
    "License renew lead time before expiration in days.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
}

leaf jnxLicenseRenewInterval {
  type int32;
  description
    "License checking interval in hours.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
}

leaf jnxLicenseAutoUpdate {
  type snmpv2-tc:DisplayString;
  description
    "License auto update URL of a license server.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
}
}

container jnxLicenseInstallTable {
  description
    "This table contains installed
feature license information.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

  list jnxLicenseInstallEntry {
    key "jnxLicenseId";
    smiv2:implied "jnxLicenseId";
    description
      "A row of giving installed feature license information.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

    leaf jnxLicenseId {
      type snmpv2-tc:DisplayString;
      description
        "Installed feature licenses Id.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
    }

    leaf jnxLicenseVersion {

```

```

type int32;
description
  "License Version information";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.2";
}

leaf jnxLicenseDeviceId {
  type snmpv2-tc:DisplayString;
  description
    "License Device Id ";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.3";
}

leaf jnxLicenseType {
  type enumeration {
    enum "invalid" {
      value "0";
    }
    enum "count-down" {
      value "1";
    }
    enum "date-based" {
      value "2";
    }
    enum "permanent" {
      value "3";
    }
  }
  description
    "License type information";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.4";
}

leaf jnxLicenseKeys {
  type binary;
  status deprecated;
  description
    "***** THIS OBJECT IS DEPRECATED *****"
    "This object is deprecated,"
    "it displays all the license keys"
    "in the system.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.5";
}

```



```

leaf jnxLicenseKeyType {
  type enumeration
{
  enum "commercial" {
    value "1";
  }
  enum "trial" {
    value "2";
  }
  enum "demo" {
    value "3";
  }
  enum "emergency" {
    value "4";
  }
  enum "lab" {
    value "5";
  }
  enum "education" {
    value "6";
  }
}
  description
    "License key type";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.6";
}
}
}

```

```

container jnxLicenseFeatureListTable {
  description
    "list of features supporting Licensing.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";

```

```

list jnxLicenseFeatureListEntry {
  key "jnxLicenseFeatureId";
  description
    "A row of licensed features.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

```

```

leaf jnxLicenseFeatureId {
  type int32;
  description
    "Feature Id to point an entry in this table";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
}

```

```

leaf jnxLicenseFeatureName {
  type snmpv2-tc:DisplayString;
  description
    "Feature Name";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
}

```

```

leaf jnxLicenseFeatureDescr {
  type snmpv2-tc:DisplayString;
  description
    "Feature Name";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
}

```

```

leaf jnxLicenseFeatureLicenseId {
  type snmpv2-tc:DisplayString;
  description
    "Feature License Id";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

```

```

leaf jnxLicenseFeatureLicenseUsed {
  type int32;
  description

    "Licenses Used";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
}

```

```

leaf jnxLicenseFeatureLicenseInstalled {
  type int32;
  description
    "Licenses Installed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

```

```

leaf jnxLicenseFeatureLicenseNeeded {
  type int32;
  description
    "Licenses Needed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
}

```

```

    }
  }
}

```

notification jnxLicenseGraceExpired {

description

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is expired";

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

container object-1 {

leaf jnxLicenseFeatureId {

type leafref {

path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";

}

}

leaf jnxLicenseFeatureName {

type leafref {

path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";

}

}

}

}

notification jnxLicenseGraceAboutToExpire {

description

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire";

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";

container object-1 {

leaf jnxLicenseFeatureId {

type leafref {

path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";

}

}

leaf jnxLicenseFeatureName {

type leafref {

path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";

```

    }
  }
}

notification jnxLicenseAboutToExpire {
  description
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

notification jnxLicenseInfringeCumulative
{
  description
    "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {

```

```

    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}
}
}

```

```

notification jnxLicenseInfringeSingle {
  description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either
expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

```

```

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseKeyExpired {
  description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

```

```

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureLicenseId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
      }
    }
  }

  container object-3
  {

    leaf jnxLicenseId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
      }
    }

    leaf jnxLicenseKeyType {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
      }
    }
  }

  smiv2:alias "jnxLicenseMIB" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
  }

```

```

smiv2:alias "jnxLicenseNotifications" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

smiv2:alias "jnxLicenseSettings" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}

}
module Cisco-IOS-XR-smart-license-cfg {
  namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-cfg";
  prefix smart-license-cfg;

  import ietf-inet-types {
    prefix inet;
  }
  import Cisco-IOS-XR-types {
    prefix xr;
  }
  import cisco-semver {
    prefix semver;
  }

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This module contains a collection of YANG definitions
    for Cisco IOS-XR smart-license package configuration.

```

This module contains definitions
for the following management objects:
 licensing: SmartLicense Root
 flex-consumption: FCM configuration

Copyright (c) 2013-2022 by Cisco Systems, Inc.
All rights reserved.";

```
revision 2022-12-22 {
  description
    "Changed parent class of flex-consumption";
  semver:module-version
    "2.0.0";
}
revision 2019-04-05 {
  description
    "Establish semantic version baseline.";
  semver:module-version "1.0.0";
}
revision 2017-07-21 {
  description
    "Initial version.";
}
revision 2015-11-09 {
  description
    "IOS XR 6.0 revision.";
}
```

```
typedef Transport-type-enum {
  type enumeration {
    enum "transport-type-callhome" {
      value 0;
      description
        "Use the Callhome as transport";
    }
    enum "transport-type-smart" {
      value 1;
      description
        "Use the smart as transport";
    }
  }
  description
    "Transport type enum";
}
```

```
container licensing {
  description
    "SmartLicense Root";
}
```



```

container transport {
  description
    "Select the type of message transport for Smart
    Agent";
  container transport-smart {
    description
      "Smart transport config for Smart Agent";
  }
  container proxy {
    description
      "Proxy related commands";
    leaf port {
      type inet:port-number;
      description
        "The proxy port";
    }
    leaf host-name {
      type xr:Cisco-ios-xr-string {
        length "1..200";
      }
      description
        "The IP address or hostname of the Proxy";
    }
  }
  container urls {
    description
      "URL for smart transport";
    leaf url-registration {
      type string {
        length "1..200";
      }
      description
        "Use the URL for Smart Transport registration";
    }
  }
  leaf transport-type {
    type Transport-type-enum;
    description
      "Select the type of message transport for Smart
      Licensing";
  }
}

container flex-consumption {
  description
    "FCM configuration";
  leaf fcm-enable {
    type boolean;
  }
}

```

```

description
    "Enable or disable";
}
leaf software-upgrade-enable {
    type boolean;
    description
        "Software-upgrade mode enabled";
}
leaf reservation {
    type boolean;
    description
        "License Smart Reservation Enabled";
}
}
}
module Cisco-IOS-XR-infra-smartlicense-oper {
    namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-infra-smartlicense-oper";
    prefix infra-smartlicense-oper;

    import cisco-semver {
        prefix semver;
    }
    include Cisco-IOS-XR-infra-smartlicense-oper-sub1 {
        revision-date 2019-04-05;
    }

    organization
        "Cisco Systems, Inc.";
    contact
        "Cisco Systems, Inc.
        Customer Service

        Postal: 170 West Tasman Drive
        San Jose, CA 95134

        Tel: +1 800 553-NETS

        E-mail: cs-yang@cisco.com";
    description
        "This module contains a collection of YANG definitions
        for Cisco IOS-XR infra-smartlicense package operational data.

        This module contains definitions
        for the following management objects:
        smart-agent: Information of Smart License list and operations

        Copyright (c) 2013-2019 by Cisco Systems, Inc.
        All rights reserved.";

```

```

revision 2019-04-05 {
  description
    "Establish semantic version baseline.";

  semver:module-version "1.0.0";
}
revision 2015-11-09 {
  description
    "IOS XR 6.0 revision.";
}

container smart-agent {
  config false;
  description
    "Information of Smart License list and operations";
  container licensing {
    description
      "Smart Licensing Module Information";
    uses SMARTAGENT-LICENSING-INFO;
  }
}

module openconfig-license {

  yang-version "1";

  namespace "http://openconfig.net/yang/license";

  prefix "oc-license";

  import openconfig-extensions { prefix oc-ext; }

  organization "OpenConfig working group";

  contact
    "OpenConfig working group
    www.openconfig.net";

  description
    "This module defines configuration and operational
    state data for licenses.";

  oc-ext:openconfig-version "0.2.0";

  revision "2020-04-22" {
    description
      "Make license-data a union of a string or binary.";
  }
}

```

```

    reference "0.2.0";
}

revision "2020-01-07" {
    description
        "Initial revision";
    reference "0.1.0";
}

// OpenConfig specific extensions for module metadata.
oc-ext:regexp-posix;
oc-ext:catalog-organization "openconfig";
oc-ext:origin "openconfig";

grouping license-config {
    description
        "Configuration data for license";

    leaf license-id {
        type string;
        description
            "License ID. A string that uniquely identifies
the license. The
        platform should list all the licenses it supports being activated.";
    }

    leaf license-data {
        type union {
            type binary;
            type string;
        }
        description
            "The contents of the licence (if required) - which may be
supplied as a binary blob, or a simple string value. If this
value is considered sensitive, it may be read as an empty value.";
    }

    leaf active {
        type boolean;
        default false;
        description
            "The activation state of the license.";
    }
}

grouping license-state {

```

```

description
"State data for license";

leaf description {
  type string;
  description
    "The license description.";
}

leaf issue-date {
  type uint64;
  description
    "The date and time at which the license was issued, expressed as the
    number of nanoseconds since the Unix Epoch
    (January 1, 1970, 00:00 UTC).";
}

leaf expiration-date
{
  type uint64;
  description
    "The date and time at which the license will expire, expressed as the
    number of nanoseconds since the Unix Epoch
    (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
}

leaf in-use {
  type boolean;
  description
    "The license is in use. Different from active. This states that the
    license is effectively being used in addition to being active. If
    license for feature X was activated but feature X is not being used,
    then this should be false.";
}

leaf expired {
  type boolean;
  description
    "The license has expired.";
}

leaf valid {
  type boolean;
  description
    "The license is valid. Can be activated in the system or platform.";
}
}

```

```

grouping licenses-top {
  description
    "Top-level grouping for licenses.";

  container licenses {
    description
      "Enclosing container for list of licenses";

    list license {
      key "license-id";
      description
        "List of licenses.";

      leaf license-id {
        type leafref {
          path "../config/license-id";
        }
        description
          "Reference to license id list key";
      }

      container config {
        description
          "Configuration data for license";

        uses license-config;
      }

      container state {

        config false;

        description
          "Operational state data for license.";

        uses license-config;
        uses license-state;
      }
    }
  }
}

grouping license-top {
  description
    "Top-level for the license model";

```

```

    container license {
        description
            "Container for license model";

        uses licenses-top;

    }
}

/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-IMAGE-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
    prefix "cisco-image-license-mgmt-mib";

    import ENTITY-MIB {
        prefix "entity-mib";
    }

    import SNMP-FRAMEWORK-MIB {
        prefix "snmp-framework";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Cisco Systems Inc.";

    contact
        "Cisco Systems
        Customer Service
        Postal: 170 W Tasman Drive
        San Jose, CA 95134
        USA

```

Tel: +1 800 553 -NETS
E-mail: cs-snmp@cisco.com";

description

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level.

This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {
  description
    "Initial version of this MIB module.";
```

```
}

typedef BootImageLevel {
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the image level.
```

```
    If the device is running at advipservices
    image level, then the boot image level will
    be 'advipservices'.";
```

```
}

typedef LicenseNameList
{
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the list of license names. If multiple licenses
    are present then this string will contain all
    the licenses seperated by the ',' character.
```

```

    If the license required to run a device at
    advipservices image level is advipservices and
    advsecurity, then the license name list will be
    'advipservices,advsecurity'.
  }

container CISCO-IMAGE-LICENSE-MGMT-MIB {
  config false;

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description
        "This object when set to TRUE means that the user has
        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license.";
      smiv2:defval
        "false";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
    }
  }

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

    leaf cilmImageLevelChangedNotif {
      type boolean;
      description
        "Specify whether or not a notification should be
        generated on the detection of change in next boot
        image level.

        If set to TRUE, cilmBootImageLevelChanged notification
        will be generated. It is the responsibility of the
        management entity to ensure that the SNMP administrative
        model is configured in such a way as to allow the
        notification to be delivered.";
      reference
        "See also RFC3413 for explanation that notifications
        are under the ultimate control of the MIB module in
        this document.";
    }
  }
}

```

```

smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

```

```

container cilmBootImageLevelTable {
  description
    "A table that contains the configuration information of
    current and next boot image level. This table contains
    entries for each software module running in an image
    loaded in the device. The software module is identified by
    cilmModuleName and the device is identified by
    entPhysicalIndex.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

```

```

list cilmBootImageLevelEntry {
  key "entPhysicalIndex cilmModuleName";
  description
    "An entry in the table for each module containing the
    list of objects that define the configuration of next
    boot level. The following information is specified by
    the objects present in the table.

```

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules

```

```

- a base image module and a wireless module.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}

```

```

leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}

```

```

leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
    of the module for the next boot.

```

```

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}

```

```

leaf cilmNextBootImageLevel {
  type
cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

```

```

leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license store index can be '0' if no license is installed and device is running base image.";
smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}

leaf cilmCurrentLicenseIndex {
type uint32;
description
"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}

leaf cilmNextBootLicenseStoreIndex {
type uint32;
description
"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in

CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}

leaf cilmNextBootLicenseIndex {
type uint32;
description
"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot.";

```

        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
    }
}
}

container cilmImageLevelToLicenseMapTable {
    description
        "This table contains the mapping between different
        image levels of each modules in the
image and the
        license required to run the modules at a particular
        image level. This table can be used to identify the
        different image levels and the appropriate licenses
        required for each.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

    list cilmImageLevelToLicenseMapEntry {
        key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
        description
            "An entry in the table containing the following
            information.
            - The image levels at the which the modules can be run.
            - The license required to the run a module at a
            particular image level.
            - The priority of the license.";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf cilmModuleName {
            type leafref {

                path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
            }
        }

        leaf cilmImageLicenseMapIndex {
            type uint32;
            description
                "This is a running index used to identify an entry

```

```

    of this table.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

```

```

leaf cilmImageLicenseImageLevel {
    type cisco-image-license-mgmt-mib:BootImageLevel;
    description
        "This object indicates the image level at which
        a module can be run. A module can be run at
        different image levels. An entry will be created
        in this table for every module and image level
        combination.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

```

```

leaf cilmImageLicenseName {
    type cisco-image-license-mgmt-mib:LicenseNameList;
    description
        "This object indicates the list of licenses needed to
        be installed for the module to run at the image level
        mentioned by cilmImageLicenseImageLevel object of this
        entry.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

```

```

leaf cilmImageLicensePriority {
    type uint32 {
        range "1..255";
    }
    description
        "This object indicates the priority of the image level
        mentioned by cilmImageLicenseImageLevel object of this
        entry. The image level with the highest priority license
        will be considered as the default level in the absense of
        next boot image level configuration. For example if there
        are three licenses l1, l2 and l3 in the ascending order of

        priority, then by default l1 will be the level at which the
        module will be running. If the next boot level is configured
        then the configuration will override the priority. The highest
        priority license supports a feature set which is a super set of
        all other licenses.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}

```

```

    }
  }
}

```

```
notification cilmBootImageLevelChanged {
```

```
  description
```

```
    "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmCurrentImageLevel
    and cilmConfiguredBootImageLevel objects respectively.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";
```

```
  container object-1 {
```

```
    leaf entPhysicalIndex {
```

```
      type leafref {
```

```
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
```

```
      }
```

```
    }
```

```
    leaf cilmModuleName {
```

```
      type leafref {
```

```
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
```

```
      }
```

```
    }
```

```
    leaf cilmCurrentImageLevel {
```

```
      type leafref {
```

```
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
```

```
      }
```

```
    }
```

```
  }
```

```
  container object-2 {
```

```
    leaf entPhysicalIndex {
```

```
      type leafref {
```

```
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
```

```
      }
```

```
    }
```

```
    leaf cilmModuleName {
```



```

    type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
    }
}

leaf cilmConfiguredBootImageLevel {
    type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
    }
}
}

smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}
submodule Cisco-IOS-XR-smart-license-errors {
    belongs-to Cisco-IOS-XR-smart-license-act {

```

```

    prefix smart-license-act;
}

import cisco-semver {
    prefix semver;
}

organization
    "Cisco Systems, Inc.";
contact
    "Cisco Systems, Inc.
    Customer Service
    Postal: 170 W Tasman Drive
    San Jose, CA 95134
    Tel: +1 1800 553-NETS
    E-mail: cs-yang@cisco.com";
description
    "Smart licensing error codes.

    Copyright (c) 2016-2020 by Cisco Systems, Inc.
    All rights reserved.";

revision 2020-02-03 {
    description
        "Added support for policies & usage reporting.
        deprecated some functionality.";
    reference "https://software.cisco.com/";
    semver:module-version "1.0.0";
}
revision 2017-10-11 {
    description
        "Initial Revision of the error codes";
}

typedef error-enum {
    type enumeration {
        enum "success" {
            value 0;
            description
                "Success";
        }
        enum "malloc" {
            value
1;
            description
                "Malloc Error";
        }
        enum "nullpointer" {

```

```

value 2;
description
    "Null pointer Error,
    it may also mean non existence of file
    in cases where files are provided as input";
}
enum "error3" {
    value 3;
    description
        "deprecated DO NOT remove";
}
enum "error4" {
    value 4;
    description
        "deprecated DO NOT remove";
}
enum "error5" {
    value 5;
    description
        "deprecated DO NOT remove";
}
enum "BadInputParams" {
    value 6;
    description
        "Bad input parameter";
}
enum "error7" {
    value 7;
    description
        "deprecated DO NOT remove";
}
enum "badhandle" {
    value 8;
    description
        "Bad handle";
}
enum "notfound" {
    value 9;
    description
        "The requested item was not found";
}
enum "notsupported" {
    value 10;
    description
        "The requested operation is not supported";
}
enum "alreadyinit" {

```

```

value 11;
description
    "Init failed because the agent is already initialized";
}
enum "notinit" {
value 12;
description
    "API failed because the agent is not initialized";
}
enum "smfailtocreate" {
value 13;
description
    "State machine creation failed";
}
enum "smfailtorun" {
value 14;
description
    "State machine not running";
}
enum "smfailtoinit" {
value 15;
description
    "State machine failed to init";
}
enum "smfailtodestroy" {
value 16;
description
    "State machine failed to destroy";
}
enum "msgparse" {
value 17;
description
    "message parsing error";
}
enum "msgbuild" {
value 18;
description
    "message building error";
}
enum "notenabled" {
value 19;
description
    "Smart Agent not enabled";
}
enum "invalidrequest" {
value 20;
description
    "Smart Agent request invalid";
}

```

```

}
enum "init" {
    value 21;
    description
        "General initialization error. We call a number of
        system routines to
        initialize system resources and we can't translate their error
        codes to Smart Agent error codes. The log should have a detailed
        description of the error.";
}
enum "failtosetstate" {
    value 22;
    description
        "Smart Agent Fail to set state";
}
enum "unsupportedresponse" {
    value 23;
    description
        "Unsupported response type";
}
enum "invalidresponse" {
    value 24;
    description
        "Invalid response type";
}
}
enum "storagefailtostore" {
    value 25;
    description
        "Smart Agent Trusted Storage failed to store*";
}
enum "storagefailtoretrieve" {
    value 26;
    description
        "Smart Agent Trusted Storage failed to retrieve*";
}
enum "nullccoidtoken" {
    value 27;
    description
        "Null CCOId and IdToken";
}
enum "matchidentifier" {
    value 28;
    description
        "Product Instance identifier failed to match";
}
enum "matchvendor" {
    value 29;

```

```

description
    "Vendor string failed to match";
}
enum "matchnonce" {
    value 30;
    description
        "nonce failed to match";
}
enum "commdisabled" {
    value 31;
    description
        "communication channel error. Comm layer (call home) is disabled ";
}
enum "commsend" {
    value 32;
    description
        "Call Home message send
error. probably a timeout so we
    will retry the send. any other error from the comm send should
    be a permanent failure";
}
enum "commresponse" {
    value 33;
    description
        "Call Home message send response error";
}
enum "communkown" {
    value 34;
    description
        "Call Home unknown error";
}
enum "smpostnotallow" {
    value 35;
    description
        "State machine Operation not permitted";
}
enum "reqmsgmissingmandatoryfield" {
    value 36;
    description
        "Missing mandatory field in request message";
}
enum "responsefailed" {
    value 37;
    description
        "We received a failure status in a response message.
        The log will contain a error message";
}
enum "pinotinit" {

```

```

value 38;
description
    "PI not initialized ";
}
enum "alreadyenabled" {
value 39;
description
    "The agent cannot be enabled more than once";
}
enum "alreadyregistered" {
value 40;
description
    "The agent is already registered";
}
enum "certinvalid" {
value 41;
description
    "The certificate is invalid ";
}
enum "certexpired" {
value 42;
description
    "The certificate has expired ";
}
enum "notregistered" {
value 43;
description
    "The agent is not registered ";
}
enum "csrgenerationfailed" {
value 44;
description
    "The CSR generation failed ";
}
enum "verifysignaturefailed" {
value 45;
description
    "Signature Verification failed ";
}
enum "generatesignaturefailed" {
value 46;
description
    "Signature Generation failed ";
}
enum "signcertverificationfailed" {
value 47;
description

```

```

    "Signing Certificate Verification failed ";
}
enum "nodecertverificationfailed" {
    value 48;
    description
        "Node Certificate Verification failed ";
}
enum "parsecertificatefailed" {
    value 49;
    description
        "Certificate Parsing failed ";
}
enum "cryptorootcaimportfailed" {
    value 50;
    description
        "Root Certificate Import failed ";
}
enum "taginvalid" {
    value 51;
    description
        "The tag is invalid ";
}
enum "standby" {
    value 52;
    description
        "Smart agent is running on a standby RP ";
}
enum "registrationinprogress" {
    value 53;
    description
        "Smart agent id token registration is in progress";
}
enum "commretry" {
    value 54;
    description
        "Call Home is not ready because it is in restart ipc";
}
enum "authrenewinprogress"
{
    value 55;
    description
        "Smart agent authorization renew is in progress";
}
enum "idcertrenewinprogress" {
    value 56;
    description
        "Smart agent id certificate renew is in progress";
}
}

```



```

enum "noudichange" {
    value 57;
    description
        "Udi List Has Not been changed ";
}
enum "callhomeserviceoff" {
    value 58;
    description
        "Call home service cannot be turned on. ";
}
enum "msgexecinprogress" {
    value 59;
    description
        "message execution already in progress";
}
enum "msgexecinproglocked" {
    value 60;
    description
        "message execution in progress flag is locked";
}
enum "certmatchessubsetudis" {
    value 61;
    description
        "The ID cert only matches some of the system Udi's";
}
enum "storagegroupchangeincomplete" {
    value 62;
    description
        "A Storage group has not all been changed";
}
enum "storagemgmtnotinit" {
    value 63;
    description
        "Storage Management is not Init";
}
enum "tspathnotchanged" {
    value 64;
    description
        "TS System Path list is not changed ";
}
enum "cryptoinitnotcompleted" {
    value 65;
    description
        "Crypto Initialization is not completed";
}
enum "notinunidentified" {
    value 66;
    description

```

```

    "The agent is not in unidentified state ";
}
enum "platformpathinvalid" {
    value 67;
    description
        "The platform provided path is invalid ";
}
enum "platformudiinvalid" {
    value 68;
    description
        "The platform provided UDI is invalid ";
}
enum "storageobjfailtcreate" {
    value 69;
    description
        "failed to create Trusted Store object ";
}
enum
"storageobjfailtoerase" {
    value 70;
    description
        "failed to erase trusted store object ";
}
enum "storageobjdoesnotexist" {
    value 71;
    description
        "trusted storage object/file does not exist";
}
enum "messageeventexceedspeer" {
    value 72;
    description
        "The message event is beyond the peer ";
}
enum "codevalidationfailed" {
    value 73;
    description
        "Validation of the authorization key failed.
        It probably does not match the UDI. The device will go to
        the unidentified state (not registered)";
}
enum "reserved" {
    value 74;
    description
        "operation not supported because the agent is running in
        permanent License reservation mode";
}
enum "noreservationinprogress" {
    value 75;

```

```

    description
        "No license reservation is in progress ";
    }
    enum "noauthorizationinstalled"
{
    value 76;
    description
        "No authorization code instaled in device ";
    }
    enum "reservationmismatch" {
    value 77;
    description
        "The reservation authorization code does not match the
        reservation request code";
    }
    enum "notreservationmode" {
    value 78;
    description
        "not in license reservation mode ";
    }
    enum "reservationerror" {
    value 79;
    description
        " General reservation error. This is used with the API
        functions that are called by the CLI. the API will return a
        very specific displayString that describes the error.";
    }
    enum "sysmgrinit" {
    value 80;
    description
        "Sysmgr Init Failed ";
    }
    enum "alreadyexists" {
    value 81;
    description
        "Generic error for something already existing ";
    }
    enum "listinsertfailed" {
    value 82;
    description
        "Error in object insert to xos list ";
    }
    enum "sessionmgmtnotinit" {
    value 83;
    description
        "Session management not initialized";
    }
    enum "listinitfailed" {

```

```

    value 84;
    description
        "Error Creating Linked List";
}
enum "listbusy" {
    value 85;
    description
        "List in use";
}
enum "noclients" {
    value 86;
    description
        "No Connected Clients ";
}
enum "ipc" {
    value 87;
    description
        "Generic IPC layer error ";
}
enum "ipcopen" {
    value 88;
    description
        "The IPC socket open error ";
}
enum "ipcinit" {
    value 89;
    description
        "The IPC Initialization error ";
}
enum "ipconnect" {
    value 90;
    description
        "The IPC Connection error ";
}
enum "ipcevents" {
    value 91;
    description
        "The IPC Server Event error ";
}
enum "ipcmgmt" {
    value 92;
    description
        "The IPC Management error ";
}
enum "ipcsend" {
    value 93;
    description
        "The IPC Send error ";
}

```

```

}
enum "ipcreceive" {
    value 94;
    description
        "The IPC Receive error ";
}
enum "ipctimeout" {
    value 95;
    description
        "The IPC timeout error ";
}
enum "enqueuefailed" {
    value 96;
    description
        "Failed to enqueue a message to the IPC Queue";
}
enum "dequeuefailed" {
    value 97;
    description
        "Failed to dequeue a message from the IPC queue";
}
enum "shuttingdown" {
    value 98;
    description
        "Fail because we are about to shutdown and we need
        to stop processing any more messages or responses";
}
enum "couldnotvalidatetrustchain"
{
    value 99;
    description
        "Could not validate Trust Chain";
}
enum "reservationalreadyinstalled" {
    value 100;
    description
        "The reservation authorization code is already installed ";
}
enum "reservationinstallparsefail" {
    value 101;
    description
        "Failed to parse reservation authorization code ";
}
enum "base64encoding" {
    value 102;
    description
        "Base64 encoding failed ";
}
}

```

```

enum "base64decoding" {
    value 103;
    description
        "Base64 decoding failed ";
}
enum "invalidsoftwareidtag" {
    value 104;
    description
        "Failed to find UUID inside software id tag ";
}
enum "certificatemismatch" {
    value 105;
    description
        "Development certificates are being used with Production
        Root certificate ";
}
enum "noreservation" {
    value 106;
    description
        "No License Reservation ";
}
enum "agentunreachable" {
    value 107;
    description
        "the agent Daemon is unreachable ";
}
enum "ignoreevent" {
    value 108;
    description
        "the agent ignores event ";
}
enum "b58overflow" {
    value 109;
    description
        "Base58 overflow, number too large. ";
}
enum "b58decode" {
    value 110;
    description
        "Base58 decode error. ";
}
enum "b58badlen" {
    value 111;
    description
        "Bad base58 length. ";
}
enum "b58invdigit" {
    value 112;

```

```

    description
        "Invalid base58 digit. ";
    }
    enum "b58decodeoverflow" {
        value 113;
        description
            "Overflow detected during base58 decode. ";
    }
    enum "reservationversionoutofbound" {
        value 114;
        description
            "Reservation version out
of bound ";
    }
    enum "base58encode" {
        value 115;
        description
            "General Base58 encoding error ";
    }
    enum "duplicatedentry" {
        value 116;
        description
            "General error code for adding item that already exists.
            Used in App HA setup when adding an HA peer device info that
            is already added ";
    }
    enum "missingentry" {
        value 117;
        description
            "General error code for trying to remove item that do
            not exist. Used in App HA setup when removing an HA peer device
            info that does not exist";
    }
    enum "badpeerinfoformat" {
        value 118;
        description
            "The given peer info contain incorrect data format ";
    }
    enum "badapplicationhaattributedataset" {
        value 119;
        description
            "The given handle attribute list contains incomplete
            application HA attributes";
    }
    enum "reservationinprogress"
{
    value 120;
    description

```

```

    "license reservation is in progress ";
}
enum "xdmcreatehandle" {
    value 121;
    description
        "The xos_dm_create() failure causes this error code to be return ";
}
enum "versionmismatchinrentitlementrsp" {
    value 122;
    description
        "Version in entitlement response message does not match
        with the
        one already saved from last completed response message. We need
        to send entitlement request again with proper version and data";
}
enum "harolenotsupported" {
    value 123;
    description
        "Given valid HA Role is not supported by this operation.
        For Application HA valid roles are Active or Standby.";
}
enum "apphainvalidcharacter" {
    value 124;
    description
        "Application HA attribute contains invalid character.
        Character set supported is alphanumeric.";
}
enum "apphaaddpeerfromsamedevice" {
    value 125;
    description
        "The peer info given is from the same device. ";
}
enum "apphaappduplicatedinstance" {
    value 126;
    description
        "When setting Application HA Attribute, a different
        handle with exactly
        same tag, app ha name, app ha id exists in the agent.";
}
enum "versionmismatchinregresponse" {
    value 127;
    description
        "Backend server does not support AppHA enabled message
        version. So
        registration response (from backend) received with status set as
        FAILED or VERSION_TOO_HIGH.";
}
enum "conversionnocb" {

```



```

    value 128;
    description
        "Migration function was called but there are no i
        call backs registered ";
    }
    enum "conversionnotallowed" {
        value 129;
        description
            "Migration was not enabled with
the
            MIGRATION_ALLOWED property ";
    }
    enum "conversioninprogress" {
        value 130;
        description
            "Migration is in progress ";
    }
    enum "conversionalreadystarted" {
        value 131;
        description
            "Migration has already been started ";
    }
    enum "conversionnotenabled" {
        value 132;
        description
            "Migration is not enabled ";
    }
    enum "versionconversionnotsupported" {
        value 133;
        description
            "The backend server this device is connected to does
            not support conversion";
    }
    enum "noconversioninprogress" {
        value 134;
        description
            "No conversion in progress";
    }
    enum "cryptoversionmismatch" {
        value 135;
        description
            "Loaded OpenSSL version is not the same as used for
            development";
    }
    enum "conversionstoppedpartially" {
        value 136;
        description

```

```

    "Some Smart Licensing Conversion jobs stopped successfully";
}
enum "utilityenabled" {
    value 137;
    description
        "Operation is not supported because Utility management
        is enabled";
}
enum "utilitynotenabled" {
    value 138;
    description
        "Utility is not enabled";
}
enum "transportnotavailable" {
    value 139;
    description
        "Transport layer not available";
}
enum "fqdn" {
    value 140;
    description
        "Unable to get FQDN";
}
enum "thirdparty" {
    value 141;
    description
        "The current transport type does not support this feature";
}
enum "transporttype" {
    value 142;
    description
        "The transport type needed is not configured";
}
enum "transportconfig" {
    value 143;
    description
        "A feature required a specific transport configuration
        which is not configured";
}
enum "IPCMsgVersion" {
    value 144;
    description
        "Internal IPC error indicating an IPC version mismatch";
}
enum "IPCFeatureDisabled" {
    value 145;
    description
        "Internal IPC error.

```

```

    The feature related to the IPC message is not available";
}
enum "IPCErrCode" {
    value 146;
    description
        "Internal IPC error.
        The other side does not understand this error code";
}
enum "NotAuthorized" {
    value 147;
    description
        "Entitlement not authorized.
        Returned from the entitlement request call if the
        entitlement tag (license) cannot be authorized.
        The feature should not run if it gets this return code.
        This error code will only be returned under the
        following conditions:
        - Specific License Reservation (SLR) mode is in use

- The authorization code installed does not contain
    the requested entitlement tag.
    - The authorization code installed does not contain
        enough counts to satisfy the request.
    - The entitlement tag is export restricted and is
        not export authorized.";
}
enum "ExportAllowed" {
    value 148;
    description
        "When the global export compliance flag is set to true,
        this error code be returned when calling export control
        APIs functions";
}
enum "NotExportRestricted" {
    value 149;
    description
        "This error code will be returned when calling export
        control API functions to request or return export
        authorization key for a feature
        that is not export restricted.";
}
enum "NoKey" {
    value 150;
    description
        "No authorization key to be returned.
        This error code will
        be returned when there is a
        request for export return key but the authorization

```

```

        key for the feature does not exist.";
    }
    enum "OperationInProgress" {
        value 151;
        description
            "The requested operation is already in progress";
    }
    enum "ReservationNoAuthCodeFound" {
        value 152;
        description
            "No authorization code found in meta file for the devices
            in this High Availability (HA) stack.
            Returned from the reservation install routine.";
    }
    enum "PreviouslyInstalled" {
        value 153;
        description
            "The user tried to install a reservation authorization
            code but it has been used previously";
    }
    enum "IsExportRestricted" {
        value 154;
        description
            "The Entitlement tag is export restricted";
    }
    enum "ExportRestrictedAuth" {
        value 155;
        description
            "Export authorization keys
are installed";
    }
    enum "NoOperation" {
        value 156;
        description
            "There is no export key request or export return request
            in progress.";
    }
    enum "MsgSizeExceed" {
        value 157;
        description
            "Message size exceed the limit";
    }
    enum "TelemetryNotEnabled" {
        value 158;
        description
            "Telemetry not enabled";
    }
    enum "NoURL" {

```

```

    value 159;
    description
        "No URL is configured";
}
enum "AuthKeyRequestInProgress" {
    value 160;
    description
        "The export authorization key request is in progress";
}
enum "AuthKeyReturnInProgress" {
    value 161;
    description
        "The export authorization key return is in progress";
}
enum "ErrorOkTryAgain" {
    value 162;
    description
        "CSSM requested to try again";
}
enum "MismatchEntitlementRequest" {

value 163;
    description
        "Mismatch in the entitlement request";
}
enum "InvalidAuthCodeType" {
    value 164;
    description
        "Invalid authorization code type for a particular operation";
}
enum "InvalidXML" {
    value 165;
    description
        "XML PArser fails to get an expected Node";
}
enum "ThreadDeadLock" {
    value 166;
    description
        "Mutex Error, This Thread already owns this lock";
}
enum "MutexPreviouslyInit" {
    value 167;
    description
        "Mutex Error. This Mutex was previously initialized";
}
enum "MutexInvalid" {
    value 168;
    description

```

```

    "Mutex Error, This is an invalid Mutex";
}
enum "MutexBusy" {
    value 169;
    description
        "Mutex Error. This Mutex is still busy and cannot be destroyed";
}
enum "MutexNotOwner" {
    value 170;
    description

    "Mutex Error. The current thread is not the owner of the mutex";
}
enum "LicenseInUse" {
    value 171;
    description
        "Enforced/ExportRestricted License is in use";
}
enum "FailedToStoreInTheFile" {
    value 172;
    description
        "Error if it failed to store the data in the given file path";
}
enum "TrustCodeAlreadyInstalled" {
    value 173;
    description
        "Error if the user tries to generate trust request
        but trust code has already been installed";
}
enum "ErrorMax" {
    description
        "max error code";
}
}
description
    "Smart License error codes returned by
    Smart Licensing RPC calls";
}
}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:

```

Name <email address>

Paul Borman <borman@google.com>

Andrew Fort <afort@arista.com>

Rob Shakir <robjs@google.com>

--

-- Juniper Enterprise Specific MIB: License MIB

--

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--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IPAddress,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

jnxLicenseMibRoot

FROM JUNIPER-SMI

DisplayString

FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201007090000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center

Juniper Networks, Inc.

1194 N. Mathilda Avenue

Sunnyvale, CA 94089

E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB

for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

```

-- *****
-- License table for installed licenses
-- *****

jnxLicenseInstallTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "This table contains installed feature license information."
    ::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE
    SYNTAX      JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "A row of giving installed
feature license information."
    INDEX       { IMPLIED jnxLicenseId }
    ::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion  INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType     INTEGER,
    jnxLicenseKeys     OCTET STRING
}

jnxLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "Installed feature licenses Id."
    ::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Version information"
    ::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Device Id "
    ::= { jnxLicenseInstallEntry

```


jnxLicenseType OBJECT-TYPE

SYNTAX INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License type information"

::= { jnxLicenseInstallEntry 4 }

jnxLicenseKeys OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Keys"

::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseFeatureListEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "list of features supporting Licensing."

::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE

SYNTAX JnxLicenseFeatureListEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "A row of licensed features."

INDEX { jnxLicenseFeatureId

}

::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {

jnxLicenseFeatureId INTEGER,

jnxLicenseFeatureName DisplayString,

jnxLicenseFeatureDescr DisplayString,

jnxLicenseFeatureLicenseId DisplayString,

jnxLicenseFeatureLicenseUsed INTEGER,

jnxLicenseFeatureLicenseInstalled INTEGER,

jnxLicenseFeatureLicenseNeeded INTEGER

}

jnxLicenseFeatureId OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "Feature Id to point an entry in this table"

::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature Name"

::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE

SYNTAX

DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature Name"

::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature License Id"

::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Used"

::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Installed"

::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Licenses Needed"

::= { jnxLicenseFeatureListEntry 7 }

-- *****

-- License configuration parameters

-- *****

jnxLicenseRenewBeforExpiration OBJECT-TYPE

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"License renew lead time before expiration in days."

::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"License checking interval in hours."

::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"License auto update URL of a license server."

::= { jnxLicenseSettings
3 }

-- *****

-- define branches for jnx license traps

-- *****

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is expired"

::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION

"The SNMP trap that is generated when the license grace period for

feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for

feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the feature is used more
times than as specified in number of licenses allowed for feature
as identified by jnxLicenseFeatureName"

::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license for feature
identified by jnxLicenseFeatureName is not valid i.e. either expired or
not available."

::= { jnxLicenseNotifications 5 }

END

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module Cisco-IOS-XR-smart-license-platform-oper {

namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-platform-oper";

prefix smart-license-platform-oper;

import cisco-semver {

prefix semver;

}

include Cisco-IOS-XR-smart-license-platform-oper-sub1 {

revision-date 2022-09-28;

}

organization

"Cisco Systems, Inc.";

contact

"Cisco Systems, Inc.

Customer Service

Postal: 170 West Tasman Drive

San Jose, CA 95134

Tel: +1 800 553-NETS

E-mail: cs-yang@cisco.com";

description

"This module contains a collection of YANG definitions
for Cisco IOS-XR smart-license-platform package operational data.

This module contains definitions
for the following management objects:
plat-smart-license: Smart License info

Copyright (c) 2013-2022 by Cisco Systems, Inc.
All rights reserved.";

revision 2022-09-28 {

description

"Added zr-zrp-dco under ft-feature-name-enum enum.

2022-07-27

Renamed node-deactivated enum to perpetual-without-sia-renewal in Sia-status-enum type.

2022-05-09

Traffic-Eng Advantage license feature renamed to SR-TE Advantage license in feature-details container.";
semver:module-version "2.0.0";

}

revision 2021-06-03 {

description

"Added support for enum node-deactivated.";

semver:module-version "1.1.0";

}

revision 2020-09-15 {

description

"Structured the yang response for show CLIs.";

semver:module-version "1.0.0";

}

revision 2019-04-05 {

description

"Establish semantic version baseline.";

}

revision 2015-11-09 {

description

"IOS XR 6.0 revision.";

}

container plat-smart-license {

config false;

description

"Smart License info";

container detail {

description

"Node Detail";

uses PLAT-SL-DETAIL;

}

```

container summary {
  description
    "Node Summary";
  uses PLAT-SL-SUMMARY;
}
}
}

submodule Cisco-IOS-XR-infra-smartlicense-oper-sub1 {
  belongs-to Cisco-IOS-XR-infra-smartlicense-oper {
    prefix Cisco-IOS-XR-infra-smartlicense-oper;
  }

  import cisco-semver {
    prefix semver;
  }

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This submodule contains a collection of YANG definitions
    for Cisco IOS-XR infra-smartlicense package operational data.

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    All rights reserved.";

  revision 2019-04-05 {
    description
      "Establish semantic version baseline.";
    semver:module-version "1.0.0";
  }
  revision 2015-11-09 {
    description
      "IOS XR 6.0 revision.";
  }

  typedef Export-status-time-enum {
    type enumeration {
      enum "time-not-started" {

```

```

        description
        "time not
started";
    }
    enum "time-in-progress" {
        description
        "time in progress";
    }
    enum "time-success" {
        description
        "time success";
    }
    enum "time-failed" {
        description
        "time failed";
    }
    }
    description
    "exportStatusTimeEnum";
}

typedef License-term-type-enum {
    type enumeration {
        enum "none" {
            description
            "There is no term information. Probably an error
            condition.";
        }
        enum "perpetual" {
            description
            "License term type is perpetual.";
        }
        enum "term" {
            description
            "term license that includes a start and end date";
        }
        enum "subscription" {
            description
            "License term type is subscription.";
        }
        enum "max" {
            description
            "max value";
        }
    }
    description
    "The license term type.";
}

```



```

typedef License-enforcement-type-enum {
    type enumeration {
        enum "invalid" {
            description
                "Invalid";
        }
        enum "not-enforced" {
            description
                "License type is not enforced.";
        }
        enum "enforced" {
            description
                "License type is enforced.";
        }
        enum "export" {
            description
                "License type is export restricted.";
        }
        enum "license-enforcement-max" {
            description
                "Max Value";
        }
    }
    description
        "The license (entitlement tag) type.";
}

```

```

typedef Install-status-enum {
    type enumeration {
        enum "in-progress" {
            description
                "in progress";
        }
        enum "not-installed" {
            description
                "not installed";
        }
        enum "type-universal" {
            description
                "type universal";
        }
        enum "type-specific" {
            description
                "type specific";
        }
    }
    description

```

```

    "install state";
}

typedef Export-entitlement-status-enum
{
    type enumeration {
        enum "not-restricted" {
            value 1;
            description
                "not restricted";
        }
        enum "authorized" {
            value 2;
            description
                "authorized";
        }
        enum "not-authorized" {
            value 3;
            description
                "not authorized";
        }
    }
    description
        "exportEntitlementStatusEnum";
}

```

```

typedef Reservation-usage-status-enum {
    type enumeration {
        enum "not-installed" {
            description
                "not installed";
        }
        enum "plr-installed" {
            description
                "plr installed";
        }
        enum "slr-installed" {
            description
                "slr installed";
        }
        enum "in-progress" {
            description
                "in progress";
        }
    }
    description
        "reservationUsageStatusEnum";
}

```

```

typedef Enforcement-mode-enum {
    type enumeration {
        enum "waiting" {
            value 0;
            description

            "The initial state after an entitlement request
            while we are waiting for the Authorization
            request response. In this mode the device will
            already have established communications with
            Cisco and successfully registered with the
            Cisco Licensing cloud.";
        }
        enum "in-compliance" {
            value 1;
            description
            "Cisco Smart Software Manager (CSSM) has
            responded that the entitlement requested is in
            compliance.";
        }
        enum "out-of-compliance" {
            value 2;
            description
            "Cisco Smart Software Manager (CSSM) has
            responded that the entitlement requested is out
            of compliance. either too many licenses
            /entitlements are in use or the license has not
            been purchased ";
        }
        enum "overage" {
            value 3;
            description
            "more licenses are in use than were purchased
            but the customer is
still within the terms of
            their contract";
        }
        enum "evaluation" {
            value 4;
            description
            "The agent is using the evaluation period for
            this entitlement. In this mode the device has
            not established communications with Cisco and
            had not registered";
        }
        enum "evaluation-expired" {
            value 5;

```

```

description
    " Eval period has expired";
}
enum "authorization-expired" {
    value 6;
    description
        "Authorization period has expired. This will
        occur if the product has not been able to
        communicate with Cisco or a satellite for an
        extended period of time, usually 90 days.";
}
enum "reservation-in-compliance" {
    value 7;
    description
        "The entitlement requested is in compliance
        because a reservation authorization code is
        installed and the product is in Permanent

License Reservation mode.";
}
enum "invalid-tag" {
    value 8;
    description
        "The entitlement tag is invalid. The CSSM does
        not recognize the entitlement tag because it is
        not in the database. This usually only occurs
        during testing.";
}
enum "disabled" {
    value 9;
    description
        "Smart licensing has been disabled. The feature
        using this license should be disabled.";
}
enum "in-use" {
    value 10;
    description
        "This entitlement is in use";
}
enum "not-in-use" {
    value 11;
    description
        "This entitlement is not in use";
}
enum "not-authorized" {
    value 12;
    description
        "This entitlement is in use but is not

```

```

        authorized. The feature consuming this
        entitlement should be disabled";
    }
    enum "mode-invalid" {
        value 13;
        description
            "Error condition state";
    }
    enum "mode-init" {
        value 14;
        description
            "The initial state after the handle is created
            with SmartAgentCreateHandle This will be the
            mode if the entitlement is not in use.";
    }
    enum "grace-period" {
        value 15;
        description
            "The grace period has being deprecated.";
    }
    enum "grace-period-expired" {
        value 16;
        description
            "The grace period has been deprecated.";
    }
    enum "not-applicable" {
        value 17;
        description
            "This enforcement mode will only be set in case
            smart agent is operational in enhanced mode.";
    }
    enum "enforcement-max" {
        value 18;
        description
            "always the last state";
    }
}
description
    "For an entitlement tag (license) that is in use
    this enumeration tells us how the license is
    being enforced.";
}

typedef Transport-type-enum {
    type enumeration {
        enum "invalid" {
            description
                "Not used in most case";
        }
    }
}

```

```

    }
    enum "not-used" {
        description
            "Not used";
    }
    enum "callhome" {
        description
            "Smart Licensing is using callhome for
            communications.";
    }
    enum "smart" {
        description
            "Smart licensing is using the smart transport
            for communications.";
    }
    enum "clsu" {
        description
            "Smart licensing will communicate with the CSLU)
            for licensing operations";
    }
    enum "transport-off" {
        description
            "Transport off";
    }
}
description
    "The type of transport in use by smart licensing.";
}

```

```

typedef Utility-reporting-type-enum {
    type enumeration {
        enum "none" {
            description
                "The system is not reporting utility usage data.";
        }
        enum "subscription"
    {
        description
            "The system is reporting utility usage data
            because it has received subscription
            information from either the SSM or satellite";
        }
        enum "certificate" {
            description
                "The system is reporting utility usage data
                because it has received a utility certificate
                from a Third Party Billing Platform.";
        }
    }
}

```

```

    }
    description
        "Is the system reporting utility data";
    }

typedef Authorization-state-enum {
    type enumeration {
        enum "none" {
            description
                "No licenses are in use so there is no
                authorization state to report.";
        }
        enum "eval" {
            description
                "Evaluation period is in use and is counting
                down.";
        }
        enum "eval-expired" {
            description
                "Evaluation period in use but it has expired.";
        }
        enum "authorized" {
            description
                "All license usage is authorized
and within
                terms of the customer's contract.";
        }
        enum "authorized-reservation" {
            description
                "All license usage is authorized because a
                reservation authorization code is installed.";
        }
        enum "out-of-compliance" {
            description
                "License usage is out of compliance with the
                terms of the contract. Either too many licenses
                are in use or licenses that were not purchased
                are in use.";
        }
        enum "authorization-expired" {
            description
                "The authorization period has expired because
                this product instance has not communicated with
                the SSM or satellite in over 90 days.";
        }
        enum "authorization-not-authorized" {
            description
                "AuthorizationNotAuthorized";
        }
    }
}

```

```

    }
}
description
    "The smart licensing authorization state.";
}

typedef Export-status-type-enum {
    type enumeration {
        enum "allowed"
    {
        description
            "ExportStatusAllowed";
    }
    enum "not-allowed" {
        description
            "ExportStatusNotAllowed";
    }
    enum "conditional" {
        description
            "ExportStatusConditional";
    }
    }
description
    "Export control status information";
}

typedef Registration-state-enum {
    type enumeration {
        enum "not-registered" {
            value 0;
            description
                "This smart licensing instance is not registered
                .";
        }
        enum "complete" {
            value 1;
            description
                "Registration was successful";
        }
        enum "in-progress" {
            value 2;
            description
                "Registration is in progress.";
        }
        enum "retry" {
            value 3;
            description
                "The initial registration attempt failed but a

```



```

        retry is in progress.";
    }
    enum "failed" {
        value 4;
        description
            "Registration failed.";
    }
    enum "not-supported" {
        value 5;
        description
            "Registration is not supported in the current
            operating mode.";
    }
}
description
    "The smart licensing registration state.";
}

```

```

typedef Bool-state {
    type enumeration {
        enum "no" {
            value 0;
            description
                "No";
        }
        enum "yes" {
            value 1;
            description
                "Yes";
        }
    }
}
description
    "Boolean State ";
}

```

```

grouping EXPORT-AUTH-KEY-UDI {
    description
        "EXPORT AUTH KEY UDI";
    container udi {
        description
            "UDI";
        uses SMARTAGENT-UDI;
    }
    leaf num-strings {
        type int32;
        description
            "numStrings";
    }
}

```

```

list return-key {
  description
    "returnKeyList";
  uses KEY-LIST;
}
}

grouping EXPORT-AUTH-KEY-LIST {
  description
    "EXPORT AUTH KEY LIST";
  leaf num-elements {
    type int32;
    description

    "NumElements";
  }
  list list {
    description
      "List";
    uses EXPORT-AUTH-KEY-UDI;
  }
}

grouping KEY-LIST {
  description
    "KEY LIST";
  leaf key {
    type string;
    description
      "Key";
  }
}

grouping EXPORT-RETURN-KEY-UDI {
  description
    "EXPORT RETURN KEY UDI";
  container udi {
    description
      "UDI";
    uses SMARTAGENT-UDI;
  }
  leaf num-strings {
    type int32;
    description
      "numStrings";
  }
  list return-key {
    description

```

```

    "returnKeyList";
    uses KEY-LIST;
}
}

grouping EXPORT-RETURN-KEY-LIST {
    description
        "EXPORT RETURN KEY LIST";
    leaf num-elements {
        type int32;
        description
            "NumElements";
    }
    list list {
        description
            "List";
        uses EXPORT-RETURN-KEY-UDI;
    }
}

grouping EXPORT-STATUS-TIME {
    description
        "EXPORT STATUS TIME";
    leaf status {
        type Export-status-time-enum;
        description
            "Status";
    }
    leaf operation-time {
        type string;
        description
            "OperationTime";
    }
    leaf operation-next-time {
        type string;
        description
            "operationNextTime";
    }
    leaf failure-message {
        type string;
        description
            "FailureMessage";
    }
}

grouping EXPORT-AUTH-KEYS {
    description
        "EXPORT AUTH KEYS";

```

```

container export-key-request-status {
  description
    "ExportKeyRequestStatus";
  uses EXPORT-STATUS-TIME;
}
container export-key-return-status {
  description
    "ExportKeyReturnStatus";
  uses EXPORT-STATUS-TIME;
}
container export-return-keys {
  description
    " ExportReturnKeys";
  uses EXPORT-RETURN-KEY-LIST;
}
container export-features-authorized {
  description
    "ExportFeaturesAuthorized";
  uses EXPORT-AUTH-KEY-LIST;
}
}

grouping SMART-AGENT-TERM-INFO {
  description
    "SMART AGENT
TERM INFO";
  leaf type {
    type License-term-type-enum;
    description
      "The type of the term license.";
  }
  leaf count {
    type int32;
    description
      "The count for this term.";
  }
  leaf start-date {
    type string;
    description
      "The date and time the term starts.";
  }
  leaf end-date {
    type string;
    description
      "The date and time the term ends.";
  }
  leaf subscription-id {
    type string;

```

```

    description
      "SubscriptionId";
  }
}

```

```

grouping SMART-AGENT-HAUDI-TERM {
  description
    "SMART AGENT HAUDI TERM";
  container udi {
    description
      "the UDI and HA role for this reservation
        information";
    uses SMARTAGENT-UDI;
  }
  list term-count {
    description
      "The list of term information";
    uses SMART-AGENT-TERM-INFO;
  }
}

```

```

grouping SMARTAGENT-RESERVATION-ENTITLEMENTLIST {
  description
    "SMARTAGENT RESERVATION ENTITLEMENTLIST";
  leaf entitlement-tag {
    type string;
    description
      "The ISO 19770-2 entitlement tag used to define
        this license";
  }
  leaf short-name {
    type string;
    description
      "The human readable license name from the
        entitlement tag.";
  }
  leaf license-name {
    type string;
    description
      "The license name that can be seen on the Cisco
        Smart Software Manger (CSSM).";
  }
  leaf description {
    type string;
    description
      "The long description of this license.";
  }
  leaf total-count {

```

```

type int32;
description
  "The total aggregated count available for this
  license.";
}
leaf license-enforcement-type {
  type License-enforcement-type-enum;
  description
    "Indicates what type of license this is.";
}
list term-info {
  description
    "the list of term info for each UDI This is an
    array of structures";
  uses SMART-AGENT-HAUDI-TERM;
}
}

```

```

grouping LICENSE-AUTH-OVERALL-INFO {
  description
    "LICENSE AUTH OVERALL INFO";
  container udi {
    description
      "UDI of this device";
    uses SMARTAGENT-UDI;
  }
  leaf install-status {
    type Install-status-enum;
    description
      "Install Status";
  }
  leaf status-time {
    type string;
    description
      "Status Time";
  }
  leaf export-control-status {
    type Export-status-type-enum;
    description
      "Export control status information";
  }
  leaf request-code {
    type string;
    description
      "Request code";
  }
  leaf return-code {
    type string;
  }
}

```

```

    description
      "ReturnCode";
  }
  leaf confirmation-code {
    type string;
    description
      "ConfirmationCode";
  }
  leaf authorization-code {
    type string;
    description
      "AuthorizationCode";
  }
  leaf error-message {
    type string;
    description
      "ErrorMessage";
  }
}

grouping IMPORTED-AUTHORIZATIONS {
  description
    "IMPORTED AUTHORIZATIONS";
  list overall-status {
    description
      "list of all reservation status information for
      all UDIs";
    uses LICENSE-AUTH-OVERALL-INFO;
  }
  list authorization {
    description
      "Information about how a single license is
      authorized.";
    uses SMARTAGENT-RESERVATION-ENTITLEMENTLIST;
  }
}

grouping RESERVATION-USAGE {
  description
    "RESERVATION USAGE";
  leaf reservation-usage-status {
    type Reservation-usage-status-enum;
    description
      "ReservationUsageStatus";
  }
  leaf total-reserved-count {
    type int32;
    description

```

```

        "totalReservedCount";
    }
}

grouping LICENSE-USAGE {
    description
        "LICENSE USAGE";
    container reservation-usage {
        description
            "Reservation Usage";
        uses RESERVATION-USAGE;
    }
    leaf entitlement-tag
    {
        type string;
        description
            "The ISO 19770 entitlement tag used to define
            this license.";
    }
    leaf short-name {
        type string;
        description
            "The human readable license name from the
            entitlement tag.";
    }
    leaf license-name {
        type string;
        description
            "The license name that can be seen in the CSSM
            portal or on the satellite.This is only
            available after the product has registered.";
    }
    leaf description {
        type string;
        description
            "The long description of this license.This is
            only available after the product has registered.";
    }
    leaf count {
        type uint32;
        description
            "The in-use count of this license. Note that
            licensing only reports usage for licenses that
            are in use (count of 1 or greater).";
    }
    leaf enforce-mode {
        type Enforcement-mode-enum;
        description

```



```

    "The current enforcement
mode of this license.";
}
leaf post-paid {
    type Bool-state;
    description
        "If true then this entitlement is being reported
        in a post paid mode with utility usage reports.
        Otherwise it will be reported in the regular
        prepaid mode.";
}
leaf subscription-id {
    type string;
    description
        "Subscription ID for this feature.";
}
leaf export-entitlement-status {
    type Export-entitlement-status-enum;
    description
        "exportEntitlementStatus";
}
leaf feature-description {
    type string;
    description
        "FeatureDescription";
}
leaf feature-name {
    type string;
    description
        "FeatureName";
}
}

grouping SMARTAGENT-UDI {
    description
        "SMARTAGENT UDI";
    leaf pid {
        type string;
        description
            "The Product Identifier. Always combined with sn.";
    }
    leaf sn {
        type string;
        description
            "The
system serial number. Always combined with
        pid.";
    }
}

```

```

leaf vid {
  type string;
  description
    "The version identifier. Usually combined with
    pid & sn.";
}
leaf uuid {
  type string;
  description
    "A 32 byte hex value generated by the system.
    This will be in proper UUID format 8-4-4-4-12.
    Often used by VMs or other systems that do not
    have a hardware identifier.";
}
leaf suvi {
  type string;
  description
    "Free form virtual identifier often used by
    software only devices like software routers or
    VMs.";
}
leaf host-identifier {
  type string;
  description
    "Host identifier available on some systems.
    Typically 8 hex digits.";
}
leaf mac-address {
  type string;
  description
    "The MAC address of the system. This is usually
    only used if there is nothing else available to
    be used as
an identifier.";
}
}

```

```

grouping EVAL-EXPIRE-TIME {
  description
    "EVAL EXPIRE TIME";
  leaf expire-time {
    type string;
    description
      "Date and time the evaluation period expired.";
  }
}

```

```

grouping EVAL-PERIOD-LEFT {

```

```

description
  "EVAL PERIOD LEFT";
leaf time-left {
  type uint64;
  units "second";
  description
    "Number of seconds of license usage until the
    evaluation period expires.";
}
}

```

```

grouping EVAL-PERIOD-STATE {
  description
    "EVAL PERIOD STATE";
  container eval-period-left {
    description
      "If the evaluation period is not expired this is
      the number of seconds left in the period.";
    uses EVAL-PERIOD-LEFT;
  }
  container eval-expire-time {
    description
      "If the evaluation period has expired then this
      is the time of the expiration.";
    uses EVAL-EXPIRE-TIME;
  }
  leaf eval-in-use {
    type Bool-state;
    description
      "Is the evaluation period currently in use and
      counting down.";
  }
  leaf eval-expired {
    type Bool-state;
    description
      "Has the evaluation period expired.";
  }
}

```

```

grouping SMART-AGENT-PRIVACY-INFO {
  description
    "SMART AGENT PRIVACY INFO";
  leaf host-name {
    type Bool-state;
    description
      "If true then the hostname will not be sent in
      any messages.";
  }
}

```

```

leaf version {
  type Bool-state;
  description
    "If true then the smart licensing version will
    not be sent in any messages.";
}
}

grouping PROXY-INFO {
  description
    "PROXY INFO";
  leaf address {
    type string;
    description
      "Proxy address for sending message.";
  }
  leaf port {
    type string;
    description
      "Proxy port for sending message.";
  }
}

grouping URL-SETTINGS {
  description
    "URL SETTINGS";
  leaf url-registration {
    type string;

    description
      "The URL used for registration, authorization and
      any other messages not related to utility.";
  }
  leaf url-utility {
    type string;
    description
      "The URL used for utility reporting. url-utility
      and url-registration may be the same or
      different. If a satellite is in use then they
      will probably be the same.";
  }
}

grouping SMART-AGENT-TRANSPORT-INFO {
  description
    "SMART AGENT TRANSPORT INFO";
  container url-settings {
    description

```

```

    "URLs in use if the transport type is smart.";
    uses URL-SETTINGS;
}
container proxy-info {
    description
        "Proxy information if the transport type is smart
        .";
    uses PROXY-INFO;
}
leaf transport-type {
    type Transport-type-enum;
    description
        "The communications transport type set in the
        config";
}
}

grouping SMARTAGENT-CUSTOMER-INFO {
    description
        "SMARTAGENT
CUSTOMER INFO";
    leaf id {
        type string;
        description
            "The cisco issued customer id which will be
            included in the utility usage (RUM) report.";
    }
    leaf name {
        type string;
        description
            "The customer company name which will be included
            in the utility usage (RUM) report.";
    }
    leaf street {
        type string;
        description
            "The customer company street address which will
            be included in the utility usage (RUM) report.";
    }
    leaf city {
        type string;
        description
            "The customer company city which will be included
            in the utility usage (RUM) report.";
    }
    leaf state {
        type string;
        description

```

```

    "The customer company state which will be
    included in the utility usage (RUM) report.";
}
leaf country {
    type string;
    description
        "The customer company country which will be
        included in the utility usage (RUM)
report.";
}
leaf postal-code {
    type string;
    description
        "The customer location specific postal code which
        will be included in the utility usage (RUM)
        report.";
}
}

```

```

grouping SMART-AGENT-UTILITY-INFO {
    description
        "SMART AGENT UTILITY INFO";
    container customer-info {
        description
            "Customer address information that will be
            included in the utility usage reports.";
        uses SMARTAGENT-CUSTOMER-INFO;
    }
    leaf utility-enable {
        type Bool-state;
        description
            "Flag to indicate if Utility is currently enabled";
    }
    leaf reporting {
        type Utility-reporting-type-enum;
        description
            "Is the system reporting utility data.";
    }
}

```

```

grouping AUTHORIZATION-AUTHORIZATION-EXPIRED {
    description
        "AUTHORIZATION AUTHORIZATION EXPIRED";
    container authorization-info {
        description
            "Additional authorization state information used

```

```

    by some of the authorization states.";
    uses AUTHORIZATION-INFO;
  }
}

```

```

grouping AUTHORIZATION-OUT-OF-COMPLIANCE {
  description
    "AUTHORIZATION OUT OF COMPLIANCE";
  container authorization-info {
    description
      "Additional authorization state information used
        by some of the authorization states.";
    uses AUTHORIZATION-INFO;
  }
  leaf ooc-time {
    type string;
    description
      "Time the product instance entered the out of
        compliance state.";
  }
}

```

```

grouping AUTHORIZATION-AUTHORIZED-RESERVATION {
  description
    "AUTHORIZATION AUTHORIZED RESERVATION";
  leaf reservation-time {
    type string;
    description
      "Time the reservation occurred.";
  }
}

```

```

grouping AUTHORIZATION-INFO {
  description
    "AUTHORIZATION INFO";
  leaf last-comm-status-success {
    type Bool-state;
    description
      "Last communication was successful or failed.";
  }
  leaf fail-message {
    type string;
    description
      "Failure message if the last communications
        attempt failed.This can be displayed for the
        user. It is not a parsable string.";
  }
  leaf last-comm-time {

```

```

    type string;
    description
        "Time the last communication attempt happened.";
}
leaf next-comm-time {
    type string;
    description
        "The next time communications will be attempted
        to the back end.This will be zero if the initial
        communication has not completed.";
}
leaf comm-deadline-time {
    type string;
    description
        "If there are no communications between now and
        this time smart licensing will enter the
        authorization expired state.This may be zero
        indicating there is no deadline.";
}
}

```

```

grouping AUTHORIZATION-AUTHORIZED {
    description
        "AUTHORIZATION AUTHORIZED";
    container authorization-info {
        description
            "Additional authorization
            state information used
            by some of the authorization states.";
        uses AUTHORIZATION-INFO;
    }
}

```

```

grouping AUTHORIZATION-EVAL-EXPIRED {
    description
        "AUTHORIZATION EVAL EXPIRED";
    leaf expire-time {
        type string;
        description
            "Time the evaluation period expired.";
    }
}

```

```

grouping EVALUATION-TIME-LEFT {
    description
        "EVALUATION TIME LEFT";
    leaf seconds-left {
        type uint64;
    }
}

```



```

units "second";
description
  "Number of seconds of license usage until the
  evaluation period expires. Note that this not a
  hard date and time because if no licenses are in
  use the evaluation period stops counting down.";
}
}

```

```

grouping AUTHORIZATION-EVAL {
  description
    "AUTHORIZATION EVAL";
  container evaluation-time-left {
    description
      "Number of seconds of license usage until the
      evaluation period expires.";
    uses EVALUATION-TIME-LEFT;
  }
}

```

```

grouping
AUTHORIZATION-NONE {
  description
    "AUTHORIZATION NONE";
  leaf empty {
    type string;
    description
      "Empty string and container";
  }
}

```

```

grouping AUTHORIZATION-STATE {
  description
    "AUTHORIZATION STATE";
  container authorization-none {
    description
      "No licenses in use.This empty container is not
      needed but is a place holder to show there is no
      data for this state.";
    uses AUTHORIZATION-NONE;
  }
  container authorization-eval {
    description
      "Evaluation period is in use and counting down
      .The evaluation period only counts down when
      licenses are in use.";
    uses AUTHORIZATION-EVAL;
  }
}

```

```

container authorization-eval-expired {
  description
    "Evaluation period is in use but has expired.";
  uses AUTHORIZATION-EVAL-EXPIRED;
}
container authorization-authorized {
  description
    "All license usage is authorized and within terms
      of the contract. uses authorization-info";
  uses AUTHORIZATION-AUTHORIZED;
}
container authorization-authorized-reservation {
  description
    "All license usage is authorized because a
      reservation authorization code is installed.";
  uses AUTHORIZATION-AUTHORIZED-RESERVATION;
}
container authorization-out-of-compliance {
  description
    "License usage is out of compliance with the
      terms of the contract because more licenses are
      in use than were purchased.";
  uses AUTHORIZATION-OUT-OF-COMPLIANCE;
}
container authorization-authorization-expired {
  description
    "The authorization period has expired because the
      product instance ahs not communicated with the
      SSM or satellite in over 90 days.";
  uses AUTHORIZATION-AUTHORIZATION-EXPIRED;
}
leaf authorization-state {
  type Authorization-state-enum;
  description
    "The current authorization state.";
}
}

```

```

grouping REGISTRATION-COMPLETE {
  description
    "REGISTRATION COMPLETE";
  leaf complete-time {
    type string;
    description
      "Time the registration was successful.";
  }
  leaf last-renew-time {
    type string;
  }
}

```

```

description
  "Time the last registration renewal occurred. If
    empty then no renewal has occurred.";
}
leaf next-renew-time {
  type string;
  description
    "Time the registration will be automatically
      renewed.";
}
leaf expire-time {
  type string;
  description
    "Time the registration will expire if it is not
      renewed.";
}
leaf last-renew-success {
  type Bool-state;
  description
    "Was the last renewal attempt successful.";
}
leaf fail-message {
  type string;
  description
    "If the last renewal failed then this is a
      failure message that can be displayed for the
      user. This is not a parsable
string. Only
  present if the last renewal failed";
}
leaf smart-account {
  type string;
  description
    "The smart account name for this registration.";
}
leaf virtual-account {
  type string;
  description
    "The virtual account name for this registration.";
}
}

grouping REGISTRATION-RETRY {
  description
    "REGISTRATION RETRY";
  container registration-info {
    description
      "Registration failed info.";
  }
}

```

```

    uses REGISTRATION-FAILED;
  }
  leaf retry-next-time {
    type string;
    description
      "Time the registration will be retried.";
  }
}

grouping REGISTRATION-FAILED {
  description
    "REGISTRATION FAILED";
  leaf fail-time {
    type string;
    description
      "Time the registration failed.";
  }
  leaf fail-message {
    type string;
    description
      "Failure message that can be displayed for the
      user.This is not a parsable message.";
  }
}

```

```

grouping REGISTRATION-IN-PROGRESS {
  description
    "REGISTRATION IN PROGRESS";
  leaf start-time {
    type string;
    description
      "Time the registration started.";
  }
}

```

```

grouping SMARTAGENT-REGISTER {
  description
    "SMARTAGENT REGISTER";
  container registration-in-progress {
    description
      "Registration is in progress.";
    uses REGISTRATION-IN-PROGRESS;
  }
  container registration-failed {
    description
      "Registration failed.";
    uses REGISTRATION-FAILED;
  }
}

```

```

container registration-retry {
  description
    "Registration failed and doing a retry.";
  uses REGISTRATION-RETRY;
}
container registration-complete {
  description
    "Registration success.";
  uses REGISTRATION-COMPLETE;
}
leaf registration-state {
  type Registration-state-enum;
  description
    "The current registration state.";
}
leaf export-control-allowed {

  type Bool-state;
  description
    "Is the device allowed to enable export
      controlled features.";
}
leaf export-control-status {
  type Export-status-type-enum;
  description
    "Export control status information";
}
}

grouping STATE-INFO {
  description
    "STATE INFO";
  container registration {
    description
      "The state of the registration for this product
        instance.";
    uses SMARTAGENT-REGISTER;
  }
  container authorization {
    description
      "State of license authorization.";
    uses AUTHORIZATION-STATE;
  }
  container utility {
    description
      "Utility settings.";
    uses SMART-AGENT-UTILITY-INFO;
  }
}

```

```

container transport {
  description
    "Transport layer settings.";
  uses SMART-AGENT-TRANSPORT-INFO;
}
container privacy {
  description
    "Controls whether or not some information is sent
    in messages to the Cisco Smart Software
Manger
    (CSSM) or satellite.";
  uses SMART-AGENT-PRIVACY-INFO;
}
container evaluation {
  description
    "State of the evaluation period. In use or not
    and time left.";
  uses EVAL-PERIOD-STATE;
}
container udi {
  description
    "UDI of the system.";
  uses SMARTAGENT-UDI;
}
container reservation {
  description
    "Information about all licenses that are
    authorized and how they were authorized";
  uses IMPORTED-AUTHORIZATIONS;
}
container export-authorization-keys {
  description
    "Export Authorization Keys";
  uses EXPORT-AUTH-KEYS;
}
leaf custom-id {
  type string;
  description
    "The custom ID set by the customer that will be
    included in the utility usage (RUM) report and
    in th emessage header";
}
leaf conversion-enabled {
  type Bool-state;
  description
    "Conversion Enabled or not";
}

```

```

list usage {
  description
    "List of license (entitlement tag) usage
    information. This only contains the information
    for licenses that are in use.";
  uses LICENSE-USAGE;
}

```

```

grouping SMART-AGENT-STATE {
  description
    "SMART AGENT STATE";
  container state-info {
    description
      "This state-info is only available if
      smart-enabled = true";
    uses STATE-INFO;
  }
  leaf always-enabled {
    type Bool-state;
    description
      "Is Smart Licensing is always enabled.";
  }
  leaf smart-enabled {
    type Bool-state;
    description
      "Is smart licensing enabled";
  }
  leaf version {
    type string;
    description
      "The smart licensing version in use.";
  }
}

```

```

grouping SMARTAGENT-LICENSING-INFO {
  description
    "All information of Smart Licensing common yang
    model";
  container state {
    description
      "Smart licensing state.";
    uses SMART-AGENT-STATE;
  }
}

```

1.161 tdb 1.47.0

1.161.1 Available under license :

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1.169 resolvelib 1.0.1

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1.170 zap 1.26.0

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1.171 go-restful 3.11.0

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1.172 bufbuild-connect-go 1.10.0

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1.174 procs 0.12.0

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1.176 masterminds-semver 1.5.0

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1.177 grpc-gateway 1.16.0

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1.178 nitishv-go-engine.io 0.0.0-

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1.180 prometheus-alertmanager 0.26.0

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1.182 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.183 google-go-cmp 0.6.0

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1.184 miekg-dns 1.1.56

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1.185 influxdb 1.9.4

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1.186 python-setuptools 68.1.2

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1.187 gjson 1.11.0

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1.188 ansible 8.4.0

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- name: Get License information.

ansible.builtin.uri:

url: "https://{{ hostname }}/redfish/v1/LicenseService/Licenses?\$expand=*(levels=1)"

validate_certs: "{{ validate_certs }}"

ca_path: "{{ ca_path | default(omit) }}"

method: "{{ uri_method }}"

user: "{{ username }}"

password: "{{ password }}"

headers: "{{ uri_headers }}"

body_format: "{{ uri_body_format }}"

status_code: "{{ uri_status_code }}"

return_content: "{{ uri_return_content }}"

register: license_result

delegate_to: "{{ lookup('ansible.builtin.env', 'RUNON', default='localhost') }}"

no_log: true

- name: Set License facts

ansible.builtin.set_fact:

license: "{{ license_result.json.Members | ansible.utils.remove_keys(target=['@odata.context', '@odata.id', '@odata.type']) }}"

{

"include_symlinks": false,

"output": "path-message"

}

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Test code for the vcenter license module.

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- name: Add a vCenter evaluation license

```
vcenter_license: &vcenter_lic_data
  hostname: "{{ vcenter_hostname }}"
  username: "{{ vcenter_username }}"
  password: "{{ vcenter_password }}"
  validate_certs: false
  license: 00000-00000-00000-00000-00000
  state: present
```

- name: Remove an (unused) vCenter evaluation license

```
vcenter_license:
  <<: *vcenter_lic_data
  state: absent
```

- name: Add an invalid vCenter license

vcenter_license:

<<: *vcenter_lic_data

license: 00000-00000-00000-00000-00001

state: present

register: vcenter_license_output

failed_when: "'is not existing or can not be added' not in vcenter_license_output.msg'

cloud/vcenter

zuul/vmware/vcenter_only

```
{
  "description": "this is a description",
  "generation": 2,
  "id": "452f8628-1e56-4b4d-946c-0e68f5780aa1",
  "kind": "cm:device:licensing:pool:regkey:licenses:regkeypoollicensestate",
  "lastUpdateMicros": 1513371645532221,
  "name": "asd",
  "selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e68f5780aa1",
  "sortName": "Registration Key Pool"
}
```

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scenario:

test_sequence:

- dependency
- lint
- cleanup
- destroy
- syntax
- create
- converge
- destroy

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Upstream-Name: ansible

Upstream-Contact: <https://github.com/ansible-community/antsibull>

Source: <https://github.com/ansible-community/antsibull>

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}
]

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Version 3, 29 June 2007

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

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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<<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

```
{
  "uuid": "d0da1b92-0254-4df1-89af-54338d3c7231",
  "baseRegKey": "11111-22222-33333-44444-5555555",
  "method": "AUTOMATIC",
  "name": "asdf",
  "licenseText": "#\nAuth vers :          5b\n#\n# iWorkflow Product License File\n# DO NOT EDIT
THIS FILE!!\n#\n# Technical Support:\n# Web          tech.f5.com\n# Phone      (206)
272.6888\n# Fax      (206) 272.6802\n# Email (support) support@f5.com\n# AskF5
askf5@f5.com\n#          #\n# Only the specific use referenced above is allowed. Any other
uses are prohibited.\n#\n#\n# Warning: Changing the system time while this system is running\n#          with
a time-limited license may make the system unusable.\n#\n#Usage :          F5 Internal Product
Development\n#\n#\n# Only the specific use referenced above is allowed. Any other uses are
prohibited.\n#\n#Vendor :
          F5 Networks, Inc.\n#\n# Module List \n#\n#nactive module :          APM, Base, VE GBB (500
CCU)|V93...356|Anti-Virus Checks|Base Endpoint Security Checks|Firewall Checks|Machine Certificate
Checks|Network Access|Protected Workspace|Secure Virtual Keyboard|APM, Web Application|App Tunnel|Remote
Desktop\n#nactive module :          VEP3, Best, 1G, 25 Instances|S71...929|IPV6 Gateway|Rate Shaping|Ram
Cache|SDN Services, VE|DENY-VER-V11.4.X|Max Compression, VE|Acceleration Manager, VE|Recycle, BIG-IP,
VE|DNS-GTM, Base, 1Gbps|SSL, VE|VEP3, Best, 1G, Add 25 Instances|Routing Bundle, VE|AFM, VE|ASM,
VE|DNSSEC|CGN, BIG-IP VE, AFM ONLY|DNS Rate Limit, 1000 QPS|GTM Rate, 1000|PSM, VE\n#noptional
module :          Concurrent Users\n#noptional module :          Concurrent Users and Access Sessions,
VE\n#noptional module :          VEP3, Best, 1G, Add 4 Instances\n#\n# Accumulated Tokens for Module\n#
DNS-GTM, Base, 1Gbps gtm_rate_fallback 1000 key
S71...929\n#\n# Accumulated Tokens for Module\n# DNS-GTM, Base, 1Gbps gtm_rate_limit 1000 key
S71...929\n#\n# Accumulated Tokens for Module\n# DNS-GTM, Base, 1Gbps ltm_dns_rate_fallback 1000
key S71...929\n#\n# Accumulated Tokens for Module\n# DNS-GTM, Base, 1Gbps ltm_dns_rate_limit 1000
key S71...929\n#\n#ngtm_rate_fallback :          1000\n#ngtm_rate_limit :          1000\n#ltm_dns_rate_fallback :
1000\n#ltm_dns_rate_limit :          1000\n#\n# Accumulated Tokens for Modules\n# VEP3, Best, 1G, 25
Instances purchased_license_pool_count 25 key S71...929\n# VEP3, Best, 1G, Add 25 Instances
purchased_license_pool_count 25 key S71...929\n#\n#npurchased_license_pool_count : 50\n#\n# Accumulated
Tokens for Module\n# CGN, BIG-IP VE, AFM ONLY perf_VE_mem_Mb 1 key
S71...929\n#\n#perf_VE_mem_Mb :          1\n#\n# Accumulated Tokens for Module\n# VEP3, Best, 1G,
25 Instances perf_VE_cores
8 key S71...929\n#\n# Accumulated Tokens for Module\n# VEP3, Best, 1G, 25 Instances
perf_VE_throughput_Mbps 1000 key S71...929\n#\n#perf_VE_cores :          8\n#perf_VE_throughput_Mbps :
1000\n#\n# Accumulated Tokens for Module\n# APM, Base, VE GBB (500 CCU) apm_access_sessions
2500 key V93...356\n#\n# Accumulated Tokens for Module\n# APM, Base, VE GBB (500 CCU)
apm_sessions 500 key V93...356\n#\n# Accumulated Tokens for Module\n# APM, Base, VE GBB (500
CCU) apm_urlf_limited_sessions 2500 key V93...356\n#\n#apm_access_sessions :          2500\n#apm_sessions :
500\n#apm_urlf_limited_sessions :          2500\n#\n# License Tokens for Module VEP3, Best, 1G, 25 Instances
key S71...929\n#\n#npurchased_license_pool :          enabled\n#mod_ltm :          enabled\n#mod_ilx :
enabled\n#Exclusive_Platform :          BIG-IQ Pool\n#\n# License Tokens for Module SSL, VE key
S71...929\n#\n#perf_SSL_total_TPS :          UNLIMITED\n#perf_SSL_per_core :          enabled\n#perf_SSL_Mbps
:          2000\n#perf_SSL_cmp :          enabled\n#\n# License Tokens for Module APM, Base, VE GBB
```

(500 CCU) key V93...356\n#\nperf_http_compression_Mbps : UNLIMITED\nperf_compression_per_core :
enabled\nmod_aml : enabled\nltm_issession : enabled\nnaam_bandwidth_control :
enabled\n#\n# License Tokens for Module Routing Bundle, VE key S71...929\n#\n\nnw_routing_rip :
enabled\nnw_routing_ospf : enabled\nnw_routing_isis : enabled\nnw_routing_bgp :
enabled\nnw_routing_bfd : enabled\n#\n# License Tokens for Module IPV6 Gateway key
S71...929\n#\n\nnw_ipv6 : enabled\n#\n# License Tokens for Module DNS-GTM, Base, 1Gbps key
S71...929\n#\n\nmod_dnsgtm : enabled\nltm_dns_v13 :
enabled\nltm_dns_lite : enabled\nltm_dns_licensed_objects : UNLIMITED\ngtm_licensed_objects
: UNLIMITED\n#\n# License Tokens for Module CGN, BIG-IP VE, AFM ONLY key
S71...929\n#\n\nmod_cgnat : enabled\nltm_monitor_udp : enabled\nltm_monitor_tcp_ho :
enabled\nltm_monitor_tcp : enabled\nltm_monitor_radius : enabled\nltm_monitor_icmp :
enabled\nltm_monitor_gateway_icmp : enabled\nndslite : enabled\ncgnat :
enabled\n#\n# License Tokens for Module ASM, VE key S71...929\n#\n\nmod_asm :
enabled\nltm_proxy_content : enabled\nltm_ha_vlan_failsafe : enabled\nltm_conn_one_connect_pool :
enabled\n#\n# License Tokens for Module APM, Base, VE GBB (500 CCU) key V93...356\n#\n\nmod_apm :
enabled\nnapm_pingaccess : enabled\n#\n# License
Tokens for Module Acceleration Manager, VE key S71...929\n#\n\nmod_am : enabled\n#\n#
License Tokens for Module PSM, VE key S71...929\n#\n\nmod_afw : enabled\n#\n# License Tokens
for Module AFM, VE key S71...929\n#\n\nmod_afm : enabled\nltm_monitor_rule :
enabled\n#\n# License Tokens for Module Ram Cache key S71...929\n#\n\nltm_ram_cache :
enabled\n#\n# License Tokens for Module SDN Services, VE key S71...929\n#\n\nltm_network_virtualization :
enabled\n#\n# License Tokens for Module DNSSEC key S71...929\n#\n\nltm_dnssec : enabled\n#\n#
License Tokens for Module Rate Shaping key S71...929\n#\n\nltm_bandw_rate_tosque :
enabled\nltm_bandw_rate_fairque : enabled\nltm_bandw_rate_classl7 : enabled\nltm_bandw_rate_classl4 :
enabled\nltm_bandw_rate_classes : enabled\n#\n# License Tokens for Module Recycle, BIG-IP,
VE key S71...929\n#\n\nlicense_recycle : enabled\nExclusive_Platform : Z100\nExclusive_Platform :
Z100H\nExclusive_Platform : Z100K\nExclusive_Platform : Z100x\n#\n# License Tokens
for Module DENY-VER-V11.4.X key S71...929\n#\n\nDeny_version : 10.*.*\nDeny_version :
11.0.*\nDeny_version : 11.1.*\nDeny_version : 11.2.*\nDeny_version :
11.3.*\nDeny_version : 11.4.*\nDeny_version : 9.*.*\n#\n# License Tokens for Module
APM, Web Application key V93...356\n#\n\nnapm_web_applications : enabled\n#\n# License Tokens for
Module Remote Desktop key V93...356\n#\n\nnapm_remote_desktop : enabled\n#\n# License Tokens for
Module Network Access key V93...356\n#\n\nnapm_na : enabled\n#\n# License Tokens for Module
Secure Virtual Keyboard key V93...356\n#\n\nnapm_ep_svk :
enabled\n#\n# License Tokens for Module Protected Workspace key V93...356\n#\n\nnapm_ep_pws :
enabled\n#\n# License Tokens for Module Machine Certificate Checks key
V93...356\n#\n\nnapm_ep_machinecert : enabled\n#\n# License Tokens for Module Firewall Checks key
V93...356\n#\n\nnapm_ep_fwcheck : enabled\n#\n# License Tokens for Module Anti-Virus Checks key
V93...356\n#\n\nnapm_ep_avcheck : enabled\n#\n# License Tokens for Module Base Endpoint Security
Checks key V93...356\n#\n\nnapm_ep : enabled\n#\n# License Tokens for Module App Tunnel key
V93...356\n#\n\nnapm_app_tunnel : enabled\n#\n\nlicense_manager_key :
LS0tLS1CRUdJTi...VZLS0tLS0K\n#\n# Debug Msg - Is sol18346625 affected; Usage, \"2017-02-28 00.00.00\",
started after requirement date \"2016-04-15 00.00.00\" \n#\n# LC disabled in accordance with
<https://support.f5.com/kb/en-us/solutions/public/k/18/sol18346625.html> \n#\nngtm_lc
: disabled\n#\n# Licensing Information \n#\n\nLicensed date : 20170310\n\nLicense start :
20170309\n\nLicense end : 20170410\n\nService check date : 20170310\n#\n# Platform
Information \n#\n\nRegistration Key : 11111-22222-33333-44444-5555555\n\nLicensed version :
2.1.0\n\nPlatform ID : BIG-IQ Pool\n#\n# Outbound License Dossier Validation\n#\n\nDossier :

```

1aa727...47ba\n#\n#      Outbound License Authorization Signature\n#\nAuthorization :
31e567c802...80ce1a4\n#\n#-----\n#\n# Copyright 1996-2017, F5 Networks, Inc.\n#\n# All
rights reserved. \n#-----\n#",
"isInternal": true,
"licenseState": {
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  "licensedDateTime": "2017-03-10T00:00:00-08:00",
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  "licenseEndDateTime":
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  "authVers": "5b",
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    "Z100H",
    "Z100K",
    "Z100x"
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Checks|Machine Certificate Checks|Network Access|Protected Workspace|Secure Virtual Keyboard|APM, Web
Application|App Tunnel|Remote Desktop",
    "VEP3, Best, 1G, 25 Instances|S71...929|IPV6 Gateway|Rate Shaping|Ram Cache|SDN Services, VE|DENY-
VER-V11.4.X|Max Compression, VE|Acceleration Manager, VE|Recycle, BIG-IP, VE|DNS-GTM, Base,
1Gbps|SSL, VE|VEP3,
    Best, 1G, Add 25 Instances|Routing Bundle, VE|AFM, VE|ASM, VE|DNSSEC|CGN, BIG-IP VE, AFM
ONLY|DNS Rate Limit, 1000 QPS|GTM Rate, 1000|PSM, VE"
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    "Concurrent Users and Access Sessions, VE",
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  ]
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```

```

},
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},
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  "featureValue": "2500"
},
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{
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```



```

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```

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  69,  
  -114,  
  52,  
  78  
]  
}
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Version 3, 29 June 2007

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```
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```

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Version 3, 29 June 2007

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- name: Get license information.

ansible.builtin.uri:

url: "https://{{ hostname }}/redfish/v1/LicenseService/Licenses/{{ license_data.Id }}"

validate_certs: "{{ validate_certs }}"

ca_path: "{{ ca_path | default(omit) }}"

method: "{{ uri_method }}"

user: "{{ username }}"

password: "{{ password }}"

headers: "{{ uri_headers }}"

body_format: "{{ uri_body_format }}"

status_code: "{{ uri_status_code }}"

return_content: "{{ uri_return_content }}"

register: license_result

no_log: true

- name: Set license facts

ansible.builtin.set_fact:

api_response: "{{ license_result.json | ansible.utils.remove_keys(target=['@odata.context', '@odata.id', '@odata.type']) }}"

```

- name: Set the keys diff
ansible.builtin.set_fact:
  diff_keys: "{{ { license_data.keys() | list | symmetric_difference((api_response.keys() | list)) } }}"

- name: Set a diff of dict
ansible.builtin.set_fact:
  diff_data: "{{ { diff_data | combine({item: license_data[item]}) } }}"
  loop: "{{ { license_data.keys() } }}"
when:
  - diff_keys | length == 0
  - license_data[item] != api_response[item]
  - item not in exclude_keys

- name: Assert the difference in Keys
ansible.builtin.assert:
  that:
    - "{{ { (diff_keys | length) == 0 } }}"
    - "{{ { (diff_data | length) == 0 } }}"
  fail_msg: "The response from the role does not match | Diff Keys : {{ diff_keys }} Diff Data : {{ diff_data }}"
  success_msg: "The response from the role matches | Diff Keys : {{ diff_keys }} Diff Data : {{ diff_data }}"
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{
  "description": "foo bar baz",
  "dossier": "5d54d976",
  "encryptedPrivateKey": [
    27,
    -10,
    12,
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    "Z100x",
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  ],
  "activeModules": [
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    "LTM, 10 Gbps, VE|T487107-2453693|, VE|DNSSEC",
    "PEM, VE|X895364-1851682"
  ],
  "optionalModules": [
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    "App Mode (TMSH Only, No Root/Bash)",
    "Concurrent Users",
    "Concurrent Users and Access Sessions, VE",
    "FIPS 140-2 Level 1, BIG-IP VE-1G to 10G",
    "IP Intelligence, 1Yr, VE",
    "IP Intelligence, 1Yr, VE-10G",

    "IP Intelligence, 3Yr, VE-10G",
    "LTM to Better Bundle Upgrade, 10Gbps",
    "PEM URL Filtering, 1Yr, HIGH PERF",
    "PEM URL Filtering, 3Yr, HIGH PERF",
    "Routing Bundle",
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    },
    {
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      "endDate": "soon"
    },
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      "endDate": "soon"
    }
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      "featureValue": "12345"
    }
  ],
  "generation": 0,
  "lastUpdateMicros": 0
},

```

```

    "licenseText": "#Auth vers : BIG-IQ
Product License File#",
    "message": "License XXXX-XXXX-XXXX-XXXX-XXXX ready",
    "name": "License for XXXX-XXXX-XXXX-XXXX-XXXX",
    "publicKey": [
        48,
        0,
        1
    ],
    "regKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
    "selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e68f5780aa1/offerings/XXXX-XXXX-XXXX-XXXX-XXXX",
    "sortName": "Registration Key Pool Item",
    "status": "READY"
}

```

- name: Converge idrac_gather_facts for License

hosts: all

gather_facts: false

vars:

hostname: "{{ lookup('env', 'hostname') }}"

username: "{{ lookup('env', 'username') }}"

password: "{{ lookup('env', 'password') }}"

validate_certs: false

target:

- License

uri_method: "GET"

uri_headers:

Accept: "application/json"

Content-Type: "application/json"

odata-version: "4.0"

uri_body_format: "json"

uri_status_code:

- 200

- 400

- 401

- 404

- -1

uri_return_content: true

diff_data: {}

exclude_keys: []

tasks:

- name: Gather Facts for the License component

ansible.builtin.include_role:

name: "idrac_gather_facts"

- name: Assert license dict for length

```

ansible.builtin.assert:
  that:
    - "{{ license | length > 0 }}"

- name: Call assertion
  ansible.builtin.include_tasks: license_assert.yml
  with_items: "{{ license }}"
  loop_control:
    loop_var: license_data
  when: license | length > 0

```

1.189 apache-arrow-go 13.0.0

1.189.1 Available under license :

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<https://github.com/numpy/numpy/blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/datetime.c>

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This project includes code from Folly.

* `cpp/src/arrow/vendored/ProducerConsumerQueue.h`

is based on Folly's

* `folly/Portability.h`

* `folly/lang/Align.h`

* `folly/ProducerConsumerQueue.h`

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1.190 go-mssqldb 1.5.0

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1.191 go-cty 1.13.0

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1.194 grafana-grafana-aws-sdk 0.19.1

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1.198 prometheus-client 1.17.0

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1.199 wheel 0.42.0

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1.200 x-time-rate 0.5.0

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1.201 go-humanize 1.0.1

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1.202 httpsnoop 1.0.4

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1.203 go-isatty 0.0.20

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1.204 structured-merge-diff 4.4.1

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Metadata-Version: 1.1

Name: prometheus_client

Version: 0.5.0

Summary: Python client for the Prometheus monitoring system.

Home-page: https://github.com/prometheus/client_python

Author: Brian Brazil

Author-email: brian.brazil@robustperception.io

License: Apache Software License 2.0

Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.

Keywords: prometheus monitoring instrumentation client

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language ::

Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: System :: Monitoring

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1.208 netbase 6.4

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Comment:

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1.209 kubernetes-api 0.29.0

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1.210 kubernetes-client 0.29.0

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1.211 kubernetes-apimachinery 0.29.0

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1.214 go-plugin 1.6.0

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1.215 golang-lru 0.5.4

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1.219 cel-go 0.17.7

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=====

The common/types/pb/equal.go modification of proto.Equal logic

=====

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1.220 prometheus-client 1.18.0

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1.221 gcompat 1.1.0-r4

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1.222 kubernetes-apiserver 0.29.0

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1.223 nkeys 0.4.7

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1.224 grafana-prometheus-alertmanager

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1.225 golang-protobuf-extensions 2.0.0

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1.230 coreos-semver 0.3.1

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1.237 mergo 0.3.16

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import: ../../../../fossene/db/schema/thing.yml

fields:

site: string

author: root

1.238 zlib 1.3

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1.239 btree 1.1.2

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1.240 libidn 2.3.7-r0

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1.241 mpdecimal 4.0.0-r0

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1.242 color 1.16.0

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1.243 pierrec-lz4 4.1.21

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1.244 python-pip 24.0

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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Just configure this file as the SSLCACertificateFile.#

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
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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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.245 browser 0.0.0-20240102092130-5ac0b6a4141c

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1.246 python-setuptools 69.1.0

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1.247 antonmedv-expr 1.15.4

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1.248 cryptsetup 2.7.0

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1.260 chromedp-cdproto 0.0.0-

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man/bitstring.3bsd

man/errc.3bsd

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man/fgetwln.3bsd

man/fpurge.3bsd

man/funopen.3bsd

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man/arc4random.3bsd

man/fmtcheck.3bsd

man/humanize_number.3bsd

man/stringlist.3bsd

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man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random_linux.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/freezero.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

src/getentropy_linux.c

src/getentropy_osx.c

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src/getentropy_win.c

src/readpassphrase.c

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src/inet_net_pton.c

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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and a brief idea of what it does.}

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@example

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- 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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1.266 ini 1.67.0

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1.267 pflag 1.0.5

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1.269 platformdirs 2.6.2

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1.270 fsnotify 1.5.1

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1.271 supervisor 4.2.5

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1.272 brotli 1.1.0-r2

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1.273 kubernetes-component-base 0.29.0

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1.274 gosqlite 1.14.19

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1.277 klauspost-compress 1.17.8

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1.278 go-hclog 1.6.3

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1.279 go-autorest 0.6.0

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1.280 go-xerial-snappy 0.0.0-20230731223053-c322873962e3

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1.281 go.uber.org/atom 1.11.0

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1.282 go.uber.org/atom 1.10.0

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1.283 go-multierror 1.1.1

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1.289 tomli 2.0.1

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1.296 masterminds-goutils 1.1.1

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1.297 opentracing-go 1.2.0

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

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

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

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Whether that is true depends on what the Program does.

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@end enumerate

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@end enumerate

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@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.

```
@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}
```

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@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:

```
@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

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The following parts are under the LGPL, see file intl/COPYING.LIB:

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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- the _programs_ gettext, ngettext, envsubst,

- the documentation.

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Version 2.1, February 1999

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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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

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- 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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1.306 cors 1.11.0

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1.307 go-md2man 2.0.4

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1.308 python-requests 2.32.3

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1.309 urllib3 1.26.19

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1.311 htop 3.3.0-r0

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A

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1.315 gax-go 2.12.5

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1.317 golang 1.22.5

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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
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```

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`fastjsonschema`

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`validate-pyproject`

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1.324 sysv-init 3.08-6ubuntu3

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1.326 libcap-ng 0.8.4-2build2

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"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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a) The modified work must itself be a software library.

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

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

d) If a facility

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

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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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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.

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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.

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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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ASM: a very small and fast Java bytecode manipulation framework

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

Originally:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu

1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

2010 Steve Bennett <steveb@workware.net.au>

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regex/utf8.[ch] (see regex/LICENSE):

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1.331 brotli 1.1.0-2build2

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1.332 cdebconf 0.271ubuntu3

1.332.1 Available under license :

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Comment: CDebConf was initially written by Randolph Chung <tausq@debian.org>

Files: *

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Attilio Fiandrotti <fiandro@tiscali.it>

Colin Watson <cjwatson@debian.org>

Regis Boudin <regis@debian.org>

Comment: CDebConf includes ideas and code from:

debconf - The original, de facto, perl implementation

(c) Joey Hess <joeyh@debian.org>

apt - The Debian Advanced Package Tool

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Comment: This package was written by Peter Tobias <tobias@et-inf.fho-emden.de>
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1.334 debianutils 5.17build1

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Comment: This is the Debian GNU/Linux package debianutils.

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1.339 gzip 1.12-1ubuntu3

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1.343 diffutils 3.10-1build1

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```
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```

The hypothetical

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1.345 sensible-utils 0.0.22

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1.346 coreutils 9.4-3ubuntu6

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1.347 dash 0.5.12-6ubuntu5

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1.348 mawk 1.3.4.20240123-1build1

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.13 2024/01/05 21:13:17 tom Exp \$

1.353 bash 5.2.21-2ubuntu4

1.353.1 Available under license :

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

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

5. A program that contains no derivative of any portion of the 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.

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- 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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Version 3, 29 June 2007

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

TERMS AND CONDITIONS

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

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The

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

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and valid for as

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1.359 libssh 0.10.6-2build2

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1.360 libxcrypt 4.4.36-4build1

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1.361 libffi 3.4.6-1build1

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1.367 libcrypt 4.4.36-4build1

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1.368 libpammodulesbin 1.5.3-5ubuntu5.1

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1.369 libdebconfclient0 0.271ubuntu3

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Comment: CDebConf includes ideas and code from:

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dns.c - Recursive, Reentrant DNS Resolver.

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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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1.376 sysvinit-utils 3.08-6ubuntu3

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1.379 py3-setuptools 70.3.0-r0

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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
setuputils.distutils --very-verbose
```

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`validate-pyproject`

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1.381 otel 1.28.0

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1.382 aws-sdk-go 1.55.3

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```
{
  "version": "2.0",
  "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
  "operations": {
    "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note><p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href='\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\"'>Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
    "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
    "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "ListIdentityProviders": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
    "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
    "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
    "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
    "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p>"
  }
}
```

<note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the <i>Amazon Web

Services Billing User Guide</i>.</p> </note>",

"StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",

"UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"

},

"shapes": {

"AccessDeniedException": {

"base": "<p>You don't have sufficient access to perform this action.</p>",

"refs": {

}

},

"ActiveDirectoryIdentityProvider": {

"base": "<p>Details about an Active Directory identity provider.</p>",

"refs": {

"IdentityProvider\$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"

}

},

"AssociateUserRequest": {

"base": null,

"refs": {

}

},

"AssociateUserResponse": {

"base": null,

"refs": {

}

},

"BoxInteger": {

"base": null,

"refs": {

"ListIdentityProvidersRequest\$MaxResults":

<p>Maximum number of results to return in a single call.</p>",

"ListInstancesRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListProductSubscriptionsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListUserAssociationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>"

}

},

"ConflictException": {

"base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",

"refs": {

}


```

    },
    "DeregisterIdentityProviderRequest": {
      "base": null,
      "refs": {
      }
    },
    "DeregisterIdentityProviderResponse": {
      "base": null,
      "refs": {
      }
    },
    "DisassociateUserRequest": {
      "base": null,
      "refs": {
      }
    },
    "DisassociateUserResponse": {
      "base": null,
      "refs": {
      }
    },
    "Filter": {
      "base": "<p>A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used
to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
      "refs": {
        "FilterList$member": null
      }
    },
    "FilterList": {
      "base": null,
      "refs": {
        "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that
match one or more sets of key-value pairs that you specify.</p>",
        "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value pairs that you specify.</p>",
        "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those
that match one or more sets of key-value pairs that you specify.</p>"
      }
    },
    "IdentityProvider": {
      "base": "<p>Details about an identity provider.</p>",
      "refs": {
        "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
        "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
        "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",

```

```

    "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "RegisterIdentityProviderRequest$IdentityProvider":
    "<p>An object that specifies details for the identity provider.</p>",
    "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
  }
},
"IdentityProviderSummary": {
  "base": "<p>Describes an identity provider.</p>",
  "refs": {
    "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
    "IdentityProviderSummaryList$member": null,
    "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
    "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

  }
},
"IdentityProviderSummaryList": {
  "base": null,
  "refs": {
    "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity
providers operation.</p>"

  }
},
"InstanceSummary": {
  "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "InstanceSummaryList$member": null

  }
},
"InstanceSummaryList": {
  "base": null,
  "refs": {
    "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"

  }
},

```

```

"InstanceUserSummary": {
  "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
    "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

    "InstanceUserSummaryList$member": null
  }
},
"InstanceUserSummaryList": {
  "base": null,
  "refs": {
    "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
  }
},
"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"ListIdentityProvidersRequest": {
  "base": null,
  "refs": {
  }
},
"ListIdentityProvidersResponse": {
  "base": null,
  "refs": {
  }
},
"ListInstancesRequest": {
  "base": null,
  "refs": {
  }
},
"ListInstancesResponse": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsRequest": {
  "base": null,
  "refs": {
  }
},

```

```

"ListProductSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsResponse": {
  "base": null,
  "refs": {
  }
},
"ProductUserSummary": {
  "base": "<p>The summary of the user-based subscription products for a user.</p>",
  "refs": {
    "ProductUserSummaryList$member": null,
    "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>",
    "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>"
  }
},
"ProductUserSummaryList": {
  "base": null,
  "refs": {
    "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product subscriptions operation.</p>"
  }
},
"RegisterIdentityProviderRequest": {
  "base": null,
  "refs": {
  }
},
"RegisterIdentityProviderResponse": {
  "base": null,
  "refs": {
  }
},
"ResourceNotFoundException": {
  "base": "<p>The resource couldn't be found.</p>",
  "refs": {
  }
},

```

```

"SecurityGroup": {
  "base": null,
  "refs": {
    "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication
between resources in your VPC and the VPC endpoint for activation servers.</p>",
    "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
  }
},
"ServiceQuotaExceededException": {
  "base": "<p>The request failed because a service quota is exceeded.</p>",
  "refs": {
  }
},
"Settings": {
  "base": "<p>The registered identity providers product related configuration settings such as the subnets to
provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication
from resources in the VPC.</p>",
  "refs": {
    "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product
related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related
configuration settings such as the subnets to provision VPC endpoints.</p>"
  }
},
"SettingsSubnetsList": {
  "base": null,
  "refs": {
    "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
  }
},
"StartProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StartProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionResponse": {

```

```

"base": null,
"refs": {
}
},
"String":
{
"base": null,
"refs": {
"AccessDeniedException$message": null,
"ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
"AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
"AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
"AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
"ConflictException$message": null,
"DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
"DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
"DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
"DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

"Filter$Attribute": "<p>The name of an attribute to use as a filter.</p>",
"Filter$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",
"Filter$Value": "<p>Value of the filter.</p>",
"IdentityProviderSummary$FailureMessage": "<p>The failure message associated with an identity
provider.</p>",
"IdentityProviderSummary$Product": "<p>The name of the user-based subscription product.</p>",
"IdentityProviderSummary$Status": "<p>The status of an identity provider.</p>",
"InstanceSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
"InstanceSummary$LastStatusCheckDate": "<p>The date of the last status check.</p>",
"InstanceSummary$Status": "<p>The status of an EC2 instance resource.</p>",
"InstanceSummary$StatusMessage": "<p>The status message for an EC2 instance.</p>",
"InstanceUserSummary$AssociationDate": "<p>The date a user was associated with an
EC2 instance.</p>",
"InstanceUserSummary$DisassociationDate": "<p>The date a user was disassociated from an EC2
instance.</p>",
"InstanceUserSummary$Domain": "<p>The domain name of the user.</p>",
"InstanceUserSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
"InstanceUserSummary$Status": "<p>The status of a user associated with an EC2 instance.</p>",
"InstanceUserSummary$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",
"InstanceUserSummary$Username": "<p>The user name from the identity provider for the user.</p>",
"InternalServerError$message": null,
"ListIdentityProvidersRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListIdentityProvidersResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListInstancesRequest$NextToken": "<p>Token for the next set of results.</p>",

```

```

    "ListInstancesResponse$NextToken":
    "<p>Token for the next set of results.</p>",
    "ListProductSubscriptionsRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListProductSubscriptionsRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "ListProductSubscriptionsResponse$NextToken": "<p>Token for the next set of results.</p>",
    "ListUserAssociationsRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "ListUserAssociationsRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListUserAssociationsResponse$NextToken": "<p>Token for the next set of results.</p>",
    "ProductUserSummary$Domain": "<p>The domain name of the user.</p>",
    "ProductUserSummary$Product": "<p>The name of the user-based subscription product.</p>",
    "ProductUserSummary$Status": "<p>The status of a product for a user.</p>",
    "ProductUserSummary$StatusMessage": "<p>The status
message for a product for a user.</p>",
    "ProductUserSummary$SubscriptionEndDate": "<p>The end date of a subscription.</p>",
    "ProductUserSummary$SubscriptionStartDate": "<p>The start date of a subscription.</p>",
    "ProductUserSummary$Username": "<p>The user name from the identity provider of the user.</p>",
    "RegisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "ResourceNotFoundException$message": null,
    "ServiceQuotaExceededException$message": null,
    "StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
    "StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
    "StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
    "StopProductSubscriptionRequest$Product":
    "<p>The name of the user-based subscription product.</p>",
    "StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
    "StringList$member": null,
    "ThrottlingException$message": null,
    "UpdateIdentityProviderSettingsRequest$Product": "<p>The name of the user-based subscription
product.</p>",
    "ValidationException$message": null
  }
},
"StringList": {
  "base": null,
  "refs": {
    "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
  }
},
"Subnet": {
  "base": null,
  "refs": {
    "SettingsSubnetsList$member": null,
    "Subnets$member": null
  }
},

```

```

"Subnets": {
  "base": null,
  "refs": {
    "UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers.</p>",
    "UpdateSettings$RemoveSubnets":
"<p>The ID of one or more subnets to remove.</p>"
  }
},
"ThrottlingException": {
  "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
  "refs": {
  }
},
"UpdateIdentityProviderSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateIdentityProviderSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateSettings": {
  "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints.</p>",
  "refs": {
    "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers
product related configuration settings. You can update any combination of settings in a single operation such as
the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets
which you want to remove the VPC endpoints
from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
  }
},
"ValidationException": {
  "base": "<p>A parameter is not valid.</p>",
  "refs": {
  }
}
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,

```



```

    "documentation": "The AWS region used to dispatch the request.",
    "type": "String"
  },
  "UseDualStack": {
    "builtIn": "AWS::UseDualStack",
    "required": true,
    "default": false,
    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {
    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ]
      },
      {
        "fn": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {

```

```

        "ref": "Endpoint"
    }
]
},
{
    "fn": "parseURL",

    "argv": [
        {
            "ref": "Endpoint"
        }
    ],
    "assign": "url"
}
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ]
    },
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ]
        }
    ],

```

```

        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },

    {
        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],

    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [

```

```

        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                }
            ]
        },
        "supportsFIPS"
    ]
}
]
},
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                }
            ],
            "supportsDualStack"
        }
    ]
}
]
}

],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
}

```

```

    }
  ]
},

{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}

```

```

    ]
  },
  {
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
  }
],
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "endpoint": {

```

```

        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},

        "headers": {}
    },
    "type": "endpoint"
}
]
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
{
    "version": "2.0",
    "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running
Amazon EC2 instances.</p>",
    "operations": {
        "DeregisterSubscriptionProvider": "<p>Remove a third-party subscription provider from the Bring Your Own
License (BYOL) subscriptions registered to your account.</p>",
        "GetRegisteredSubscriptionProvider": "<p>Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account.</p>",
        "GetServiceSettings": "<p>Lists the Linux subscriptions service settings for your account.</p>",
        "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux subscriptions.</p>",
        "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
        "ListRegisteredSubscriptionProviders":
        "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
        "ListTagsForResource": "<p>List the metadata tags that are assigned to the specified Amazon Web Services
resource.</p>",

```

```

"RegisterSubscriptionProvider": "<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
"TagResource": "<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
"UntagResource": "<p>Remove one or more metadata tag from the specified Amazon Web Services resource.</p>",
"UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
},
"shapes": {
  "Boolean": {
    "base": null,
    "refs": {
      "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>The maximum items to return in a request.</p>",
      "ListLinuxSubscriptionsRequest$MaxResults": "<p>The maximum items to return in a request.</p>"
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
    }
  },
  "DeregisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,

```



```
"refs": {
```

```
  "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:</p> <ul> <li><p><code>AccountID</code></p></li> <li><p><code>AmiID</code></p></li> <li><p><code>DualSubscription</code></p></li> <li><p><code>InstanceID</code></p></li> <li><p><code>InstanceType</code></p></li> <li><p><code>ProductCode</code></p></li> <li><p><code>Region</code></p></li> <li><p><code>Status</code></p></li> <li><p><code>UsageOperation</code></p></li> </ul> <p>For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter:</p> <ul> <li><p><code>contains</code></p></li> <li><p><code>equals</code></p></li> <li><p><code>NotEqual</code></p></li> </ul>",
```

```
  "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li><p><code>Subscription</code></p></li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li><p><code>contains</code></p></li> <li><p><code>equals</code></p></li> <li><p><code>NotEqual</code></p></li> </ul>"
```

```
  }
```

```
},
```

```
"GetRegisteredSubscriptionProviderRequest": {
```

```
  "base": null,
```

```
  "refs": {
```

```
  }
```

```
},
```

```
"GetRegisteredSubscriptionProviderResponse": {
```

```
  "base": null,
```

```
  "refs": {
```

```
  }
```

```
},
```

```
"GetServiceSettingsRequest": {
```

```
  "base": null,
```

```
  "refs": {
```

```
  }
```

```
},
```

```
"GetServiceSettingsResponse": {
```

```
  "base": null,
```

```
  "refs": {
```

```
  }
```

```
},
```

```
"Instance": {
```

```
  "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
```

```
  "refs": {
```

```
    "InstanceList$member": null
```

```
  }
```

```

},
"InstanceList": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionInstancesResponse$Instances": "<p>An array that contains instance objects.</p>"
  }
},
"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"LinuxSubscriptionsDiscovery": {
  "base": null,
  "refs": {
    "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>",
    "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery":
    "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
    "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
  }
},
"LinuxSubscriptionsDiscoverySettings": {
  "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
  "refs": {
    "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
    "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
    "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
  }
},
"ListLinuxSubscriptionInstancesRequest": {
  "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases.</p>",
  "refs": {
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionInstancesRequest$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
  }
}

```

```

    }
  },
  "ListLinuxSubscriptionInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":
  {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsRequest$NextToken": "<p>A token to specify where to start paginating. This is the
nextToken from a previously truncated response.</p>"
    }
  },
  "ListLinuxSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
    "base": null,
    "refs": {
      "ListRegisteredSubscriptionProvidersRequest$MaxResults": "<p>The maximum items to return in a
request.</p>"
    }
  },
  "ListRegisteredSubscriptionProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },

```

```

"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"Operator": {
  "base": null,
  "refs": {
    "Filter$Operator": "<p>An operator for filtering results.</p>"
  }
},
"OrganizationIntegration": {
  "base": null,
  "refs": {
    "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>"
  }
},
"ProductCodeList": {
  "base": null,
  "refs": {
    "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
  }
},
"RegisterSubscriptionProviderRequest": {
  "base": null,
  "refs": {
  }
},
"RegisterSubscriptionProviderResponse": {
  "base": null,
  "refs": {
  }
},
"RegisteredSubscriptionProvider": {
  "base": "<p>A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider.</p>",
  "refs": {
    "RegisteredSubscriptionProviderList$member": null
  }
},
"RegisteredSubscriptionProviderList": {
  "base": null,
  "refs": {

```

"ListRegisteredSubscriptionProvidersResponse\$RegisteredSubscriptionProviders": "<p>The list of BYOL registration resources that fit the criteria you specified in the request.</p>"

}

},

"ResourceNotFoundException": {

"base": "<p>Unable to find the requested Amazon Web Services resource.</p>",

"refs": {

}

},

"SecretArn": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SecretArn": "<p>The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request.</p>",

"RegisterSubscriptionProviderRequest\$SecretArn": "<p>The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>",

"RegisteredSubscriptionProvider\$SecretArn": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"

}

},

"Status": {

"base": null,

"refs": {

"GetServiceSettingsResponse\$Status": "<p>Indicates the status of Linux subscriptions settings being applied.</p>",

"UpdateServiceSettingsResponse\$Status": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"

}

},

"String": {

"base": null,

"refs": {

"Filter\$Name": "<p>The type of name to filter by.</p>",

"GetRegisteredSubscriptionProviderResponse\$LastSuccessfulDataRetrievalTime": "<p>The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider.</p>",

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderStatusMessage": "<p>The detailed message from your subscription provider token status.</p>",

"Instance\$AccountID": "<p>The account ID which owns the instance.</p>",

"Instance\$AmiId": "<p>The AMI ID used to launch the instance.</p>",

"Instance\$DualSubscription": "<p>Indicates that you have two different license subscriptions for the same software on your instance.</p>",

"Instance\$InstanceID": "<p>The instance ID of the resource.</p>",

"Instance\$InstanceType": "<p>The instance type of the resource.</p>",

"Instance\$LastUpdatedTime": "<p>The time in which the last discovery updated the instance details.</p>",

"Instance\$OsVersion": "

The operating system software version that runs on your instance.

",

"Instance\$Region": "

The Region the instance is running in.

",

"Instance\$RegisteredWithSubscriptionProvider": "

Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager.

",

"Instance\$Status": "

The status of the instance.

",

"Instance\$SubscriptionName": "

The name of the license subscription that the instance uses.

",

"Instance\$SubscriptionProviderCreateTime": "

The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses.

",

"Instance\$SubscriptionProviderUpdateTime": "

The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider.

",

"Instance\$UsageOperation": "

The usage operation of the instance. For more information, see [For more information, see https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html](\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\") in the *License Manager User Guide*.

",

"InternalServerException\$message": null,

"ListLinuxSubscriptionInstancesResponse\$NextToken": "

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

",

"ListLinuxSubscriptionsResponse\$NextToken": "

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

",

"ListRegisteredSubscriptionProvidersRequest\$NextToken": "

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

",

"ListRegisteredSubscriptionProvidersResponse\$NextToken": "

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

",

"ProductCodeList\$member": null,

"RegisterSubscriptionProviderResponse\$SubscriptionProviderArn": "

The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.

",

"RegisteredSubscriptionProvider\$LastSuccessfulDataRetrievalTime": "

The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider.

",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatusMessage": "

A detailed message that's associated with your BYOL subscription provider token status.

",

"ResourceNotFoundException\$message": null,

"StringMap\$key": null,

"StringMap\$value": null,

"Subscription\$Name": "

The name of the subscription.

",

"Subscription\$Type": "

The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.

",

"TagKeyList\$member": null,

"Tags\$key": null,

"Tags\$value": null,

```

    "ThrottlingException$message": null,
    "ValidationException$message": null
  },
  "StringList": {
    "base": null,
    "refs": {
      "Filter$Values": "<p>One or more values for the name to filter by.</p>",
      "GetServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>",
      "LinuxSubscriptionsDiscoverySettings$SourceRegions":
        "<p>The Regions in which to discover data for Linux subscriptions.</p>",
      "UpdateServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>"
    }
  },
  "StringListMemberString": {
    "base": null,
    "refs": {
      "StringList$member": null
    }
  },
  "StringMap": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>",
      "UpdateServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>"
    }
  },
  "Subscription": {
    "base": "<p>An object which details a discovered Linux subscription.</p>",
    "refs": {
      "SubscriptionList$member": null
    }
  },
  "SubscriptionList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsResponse$Subscriptions":
        "<p>An array that contains subscription objects.</p>"
    }
  },
  "SubscriptionProviderArn": {
    "base": null,
    "refs": {
      "DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN)

```

of the subscription provider resource to deregister.</p>",

"GetRegisteredSubscriptionProviderRequest\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request.</p>",

"ListTagsForResourceRequest\$resourceArn": "<p>The Amazon Resource Name (ARN) of the resource for which to list metadata tags.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",

"TagResourceRequest\$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags.</p>",

"UntagResourceRequest\$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>"

}

},

"SubscriptionProviderSource": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The subscription provider for the BYOL registration resource specified in the request.</p>",

"RegisterSubscriptionProviderRequest\$SubscriptionProviderSource": "<p>The supported Linux subscription provider to register.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The Linux subscription provider that you registered.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderSource": "<p>A supported third-party Linux subscription provider. License

Manager currently supports Red Hat subscriptions.</p>",

"SubscriptionProviderSourceList\$member": null

}

},

"SubscriptionProviderSourceList": {

"base": null,

"refs": {

"ListRegisteredSubscriptionProvidersRequest\$SubscriptionProviderSources": "<p>To filter your results, specify which subscription providers to return in the list.</p>"

}

},

"SubscriptionProviderStatus": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>The status of the Linux subscription provider access token from the last successful subscription data request.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>Indicates the status of the registration action for the Linux subscription provider that you requested.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatus": "<p>Indicates the status of your registered Linux subscription provider access

token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token.</p>"


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    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$tagKeys": "<p>A list of metadata tag keys to remove from the requested
resource.</p>"
    }
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  "TagResourceRequest": {
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    "refs": {
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    "refs": {
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  "Tags": {
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    "refs": {
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      "RegisterSubscriptionProviderRequest$Tags": "<p>The metadata tags to assign to your registered Linux
subscription provider resource.</p>",
      "TagResourceRequest$tags": "<p>The metadata tags to assign to the Amazon Web Services resource. Tags are
formatted as key value pairs.</p>"
    }
  },
  "ThrottlingException": {
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    "refs": {
    }
  },
  "UntagResourceRequest": {
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    "refs": {
    }
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    "refs": {
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    "refs": {
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}

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},
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"ValidationException": {
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  "refs": {
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}
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}
}
}
AWS SDK for Go
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{
  "testCases": [
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    "expect": {
        "endpoint": {

```

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        "UseDualStack": true
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            "expect": {
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    },
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  {
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with FIPS disabled and DualStack disabled",

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"expect": {
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    "Region": "eu-west-3",
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        "UseDualStack": true
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{
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        "url": "https://license-manager-user-subscriptions-fips.me-south-1.api.aws"
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        "UseDualStack": false
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    }
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        "UseDualStack": true
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        "Region": "me-south-1",
        "UseDualStack": false
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        "UseDualStack": true
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        "UseDualStack": false
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region sa-east-1 with FIPS disabled and DualStack enabled",
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      "UseDualStack": true
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enabled and DualStack disabled",
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    "UseDualStack": false
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  },

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      }
    },
    "params": {
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      "Region": "us-east-1",
      "UseDualStack": false,
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    }
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    "UseDualStack": false,
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    "Region": "us-east-1",
    "UseDualStack": true,
    "Endpoint": "https://example.com"
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"version": "1.0"
}
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    "endpointPrefix": "license-manager",
    "jsonVersion": "1.1",
    "protocol": "json",
    "serviceFullName": "AWS License Manager",
    "serviceId": "License Manager",
    "signatureVersion": "v4",
    "targetPrefix": "AWSLicenseManager",
    "uid": "license-manager-2018-08-01"
  },
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      "http": {
        "method": "POST",
        "requestUri": "/"
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    }
  },

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  {"shape":"InvalidParameterValueException"},
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  {"shape":"RateLimitExceededException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"}
]
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    "requestUri":"/"
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  "output":{"shape":"CheckInLicenseResponse"},
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    {"shape":"ResourceNotFoundException"},
    {"shape":"ConflictException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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    {"shape":"EntitlementNotAllowedException"},
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    {"shape":"RedirectException"},
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```

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  ]
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    {"shape":"ServerInternalException"}
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    {"shape":"AccessDeniedException"}
  ]
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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    "requestUri":"/"
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  "output":{"shape":"CreateLicenseConfigurationResponse"},
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  ]
}

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    ]
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      "requestUri": "/"
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    "output": { "shape": "CreateLicenseManagerReportGeneratorResponse" },
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    "output": { "shape": "CreateLicenseVersionResponse" },
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    {"shape":"ConflictException"},
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    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
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  "output":{"shape":"DeleteGrantResponse"},
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
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  {"shape":"AccessDeniedException"},
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]
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    {"shape":"RateLimitExceededException"}
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
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    {"shape":"ResourceNotFoundException"}
  ]
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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
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    {"shape":"RedirectException"}
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      {"shape":"RateLimitExceededException"}
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  "input": { "shape": "GetLicenseConversionTaskRequest" },
  "output": { "shape": "GetLicenseConversionTaskResponse" },
  "errors": [
    { "shape": "InvalidParameterValueException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "RateLimitExceededException" }
  ]
},
"GetLicenseManagerReportGenerator": {
  "name": "GetLicenseManagerReportGenerator",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "GetLicenseManagerReportGeneratorRequest" },
  "output": { "shape": "GetLicenseManagerReportGeneratorResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InvalidParameterValueException" },
    { "shape": "ResourceLimitExceededException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "RateLimitExceededException" },
    { "shape": "AccessDeniedException" },
    { "shape": "ResourceNotFoundException" }
  ]
},

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"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
}

```

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},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},

```

```

    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[

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```

    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},

    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},

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"output":{"shape":"ListReceivedGrantsResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListReceivedGrantsForOrganization":{"
  "name":"ListReceivedGrantsForOrganization",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicenses":{"
  "name":"ListReceivedLicenses",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicensesForOrganization":{"

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"name":"ListReceivedLicensesForOrganization",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",

"requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},

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```

    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[]
}

```

```

    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",

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```

"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[

```

```

    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ],
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-
Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
}

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    }
  },
  "BoxBoolean": {"type": "boolean"},
  "BoxInteger": {"type": "integer"},
  "BoxLong": {"type": "long"},
  "CheckInLicenseRequest": {
    "type": "structure",
    "required": ["LicenseConsumptionToken"],
    "members": {
      "LicenseConsumptionToken": {"shape": "String"},
      "Beneficiary": {"shape": "String"}
    }
  },
  "CheckInLicenseResponse": {
    "type": "structure",
    "members": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "Entitlements",
      "DigitalSignatureMethod",
      "ClientToken"
    ],
    "members": {
      "LicenseArn": {"shape": "Arn"},
      "Entitlements": {"shape": "EntitlementDataList"},
      "DigitalSignatureMethod": {"shape": "DigitalSignatureMethod"},
      "NodeId": {"shape": "String"},
      "CheckoutMetadata": {"shape": "MetadataList"},
      "ClientToken": {"shape": "ClientToken"}
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "type": "structure",
    "members": {
      "LicenseArn": {"shape": "Arn"},
      "LicenseConsumptionToken": {"shape": "String"},
      "EntitlementsAllowed": {"shape": "EntitlementDataList"},
      "NodeId": {"shape": "String"},
      "SignedToken": {"shape": "SignedToken"},
      "IssuedAt": {"shape": "ISO8601DateTime"},
      "Expiration": {"shape": "ISO8601DateTime"},
      "CheckoutMetadata": {"shape": "MetadataList"}
    }
  }
}

```

```

},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,

```



```

    "pattern": "\\S+"
  },
  "ConflictException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "exception": true
  },
  "ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
      "ResourceType": { "shape": "ResourceType" },
      "ConsumedLicenses": { "shape": "BoxLong" }
    }
  },
  "ConsumedLicenseSummaryList": {
    "type": "list",
    "member": { "shape": "ConsumedLicenseSummary" }
  },
  "ConsumptionConfiguration": {
    "type": "structure",
    "members": {
      "RenewType": { "shape": "RenewType" },
      "ProvisionalConfiguration": { "shape": "ProvisionalConfiguration" },
      "BorrowConfiguration": { "shape": "BorrowConfiguration" }
    }
  },
  "CreateGrantRequest": {
    "type": "structure",
    "required": [
      "ClientToken",
      "GrantName",
      "LicenseArn",
      "Principals",
      "HomeRegion",
      "AllowedOperations"
    ],
    "members": {
      "ClientToken": { "shape": "ClientToken" },
      "GrantName": { "shape": "String" },
      "LicenseArn": { "shape": "Arn" },
      "Principals": { "shape": "PrincipalArnList" },
      "HomeRegion": { "shape": "String" },
      "AllowedOperations": { "shape": "AllowedOperationList" }
    }
  },
  "CreateGrantResponse": {

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```

    "type": "structure",
    "members": {
      "GrantArn": { "shape": "Arn" },
      "Status": { "shape": "GrantStatus" },
      "Version": { "shape": "String" }
    }
  },
  "CreateGrantVersionRequest": {
    "type": "structure",
    "required": [
      "ClientToken",
      "GrantArn"
    ],
    "members": {
      "ClientToken": { "shape": "ClientToken" },
      "GrantArn": { "shape": "Arn" },
      "GrantName": { "shape": "String" },
      "AllowedOperations": { "shape": "AllowedOperationList" },
      "Status": { "shape": "GrantStatus" },
      "StatusReason": { "shape": "StatusReasonMessage" },
      "SourceVersion": { "shape": "String" },
      "Options": { "shape": "Options" }
    }
  },
  "CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
      "GrantArn": { "shape": "Arn" },
      "Status": { "shape": "GrantStatus" },
      "Version": { "shape": "String" }
    }
  },
  "CreateLicenseConfigurationRequest": {
    "type": "structure",
    "required": [
      "Name",
      "LicenseCountingType"
    ],
    "members": {
      "Name": { "shape": "String" },
      "Description": { "shape": "String" },
      "LicenseCountingType": { "shape": "LicenseCountingType" },
      "LicenseCount": { "shape": "BoxLong" },
      "LicenseCountHardLimit": { "shape": "BoxBoolean" },
      "LicenseRules": { "shape": "StringList" },
      "Tags": { "shape": "TagList" },
      "DisassociateWhenNotFound": { "shape": "BoxBoolean" },
      "ProductInformationList": { "shape": "ProductInformationList" }
    }
  }
}

```

```

    }
  },
  "CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArn": { "shape": "String" }
    }
  },
  "CreateLicenseConversionTaskForResourceRequest": {
    "type": "structure",
    "required": [
      "ResourceArn",
      "SourceLicenseContext",
      "DestinationLicenseContext"
    ],
    "members": {
      "ResourceArn": { "shape": "Arn" },
      "SourceLicenseContext": { "shape": "LicenseConversionContext" },
      "DestinationLicenseContext": { "shape": "LicenseConversionContext" }
    }
  },
  "CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": { "shape": "LicenseConversionTaskId" }
    }
  },
  "CreateLicenseManagerReportGeneratorRequest": {
    "type": "structure",
    "required": [
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members": {
      "ReportGeneratorName": { "shape": "ReportGeneratorName" },
      "Type": { "shape": "ReportTypeList" },
      "ReportContext": { "shape": "ReportContext" },
      "ReportFrequency": { "shape": "ReportFrequency" },
      "ClientToken": { "shape": "ClientRequestToken" },
      "Description": { "shape": "String" },
      "Tags": { "shape": "TagList" }
    }
  },
  "CreateLicenseManagerReportGeneratorResponse": {

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```

    "type": "structure",
    "members": {
      "LicenseManagerReportGeneratorArn": { "shape": "String" }
    }
  },
  "CreateLicenseRequest": {
    "type": "structure",
    "required": [
      "LicenseName",
      "ProductName",
      "ProductSKU",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "Beneficiary",
      "ConsumptionConfiguration",
      "ClientToken"
    ],
    "members": {
      "LicenseName": { "shape": "String" },
      "ProductName": { "shape": "String" },
      "ProductSKU": { "shape": "String" },
      "Issuer": { "shape": "Issuer" },
      "HomeRegion": { "shape": "String" },
      "Validity": { "shape": "DatetimeRange" },
      "Entitlements": { "shape": "EntitlementList" },
      "Beneficiary": { "shape": "String" },
      "ConsumptionConfiguration": { "shape": "ConsumptionConfiguration" },
      "LicenseMetadata": { "shape": "MetadataList" },
      "ClientToken": { "shape": "ClientToken" }
    }
  },
  "CreateLicenseResponse": {
    "type": "structure",
    "members": {
      "LicenseArn": { "shape": "Arn" },
      "Status": { "shape": "LicenseStatus" },
      "Version": { "shape": "String" }
    }
  },
  "CreateLicenseVersionRequest": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "LicenseName",
      "ProductName",

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```

    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
    "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{

```

```

    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{"
  "type":"structure",
  "required":["Begin"],
  "members":{"
    "Begin":{"shape":"ISO8601DateTime"},
    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{"
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"}
  }
},
"DeleteGrantResponse":{"
  "type":"structure",
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{"
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{"
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{"

```

```

    "type": "structure",
    "required": ["LicenseManagerReportGeneratorArn"],
    "members": {
      "LicenseManagerReportGeneratorArn": {"shape": "String"}
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse": {
    "type": "structure",
    "members": {
    }
  },
  "DeleteLicenseRequest": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "SourceVersion"
    ],
    "members": {
      "LicenseArn": {"shape": "Arn"},
      "SourceVersion": {"shape": "String"}
    }
  },
  "DeleteLicenseResponse": {
    "type": "structure",
    "members": {
      "Status": {"shape": "LicenseDeletionStatus"},
      "DeletionDate": {"shape": "ISO8601DateTime"}
    }
  },
  "DeleteTokenRequest": {
    "type": "structure",
    "required": ["TokenId"],
    "members": {
      "TokenId": {"shape": "String"}
    }
  },
  "DeleteTokenResponse": {
    "type": "structure",
    "members": {
    }
  },
  "DigitalSignatureMethod": {
    "type": "string",
    "enum": ["JWT_PS384"]
  },
  "Entitlement": {
    "type": "structure",

```

```

"required":[
  "Name",
  "Unit"
],
"members":{
  "Name":{"shape":"String"},
  "Value":{"shape":"String"},
  "MaxCount":{"shape":"Long"},
  "Overage":{"shape":"BoxBoolean"},
  "Unit":{"shape":"EntitlementUnit"},
  "AllowCheckIn":{"shape":"BoxBoolean"}
}
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",

```



```

    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",

    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",

```

```

    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "ConsumedValue":{"shape":"String"},
    "MaxCount":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  }
}

```

```

    },
    "exception":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"FilterName"},
      "Values":{"shape":"FilterValues"}
    }
  },
  "FilterLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "FilterName":{"type":"string"},
  "FilterValue":{"type":"string"},
  "FilterValues":{
    "type":"list",
    "member":{"shape":"FilterValue"}
  },
  "Filters":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetAccessTokenRequest":{
    "type":"structure",
    "required":["Token"],
    "members":{
      "Token":{"shape":"TokenString"},
      "TokenProperties":{"shape":"MaxSize3StringList"}
    }
  },
  "GetAccessTokenResponse":{
    "type":"structure",
    "members":{
      "AccessToken":{"shape":"TokenString"}
    }
  },
  "GetGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],

```

```

"members":{
  "GrantArn":{"shape":"Arn"},
  "Version":{"shape":"String"}
}
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "Tags":{"shape":"TagList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"GetLicenseConversionTaskResponse":{

```

```

"type":"structure",
"members":{
  "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
  "ResourceArn":{"shape":"String"},
  "SourceLicenseContext":{"shape":"LicenseConversionContext"},
  "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
  "StatusMessage":{"shape":"String"},
  "Status":{"shape":"LicenseConversionTaskStatus"},
  "StartTime":{"shape":"DateTime"},
  "LicenseConversionTime":{"shape":"DateTime"},
  "EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{"shape":"ReportGenerator"}
  }
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{

```

```

    "type":"structure",
    "members":{
      "LicenseUsage":{"shape":"LicenseUsage"}
    }
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "S3BucketArn":{"shape":"String"},
      "SnsTopicArn":{"shape":"String"},
      "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
      "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
      "LicenseManagerResourceShareArn":{"shape":"String"}
    }
  },
  "Grant":{
    "type":"structure",
    "required":[
      "GrantArn",
      "GrantName",
      "ParentArn",
      "LicenseArn",
      "GranteePrincipalArn",
      "HomeRegion",
      "GrantStatus",
      "Version",
      "GrantedOperations"
    ],
    "members":{
      "GrantArn":{"shape":"Arn"},
      "GrantName":{"shape":"String"},
      "ParentArn":{"shape":"Arn"},
      "LicenseArn":{"shape":"Arn"},
      "GranteePrincipalArn":{"shape":"Arn"},
      "HomeRegion":{"shape":"String"},
      "GrantStatus":{"shape":"GrantStatus"},
      "StatusReason":{"shape":"StatusReasonMessage"},
      "Version":{"shape":"String"},
      "GrantedOperations":{"shape":"AllowedOperationList"},
      "Options":{"shape":"Options"}
    }
  },
  "GrantList":{

```

```

    "type": "list",
    "member": { "shape": "Grant" }
  },
  "GrantStatus": {
    "type": "string",
    "enum": [
      "PENDING_WORKFLOW",
      "PENDING_ACCEPT",
      "REJECTED",
      "ACTIVE",
      "FAILED_WORKFLOW",
      "DELETED",
      "PENDING_DELETE",
      "DISABLED",
      "WORKFLOW_COMPLETED"
    ]
  },
  "GrantedLicense": {
    "type": "structure",
    "members": {
      "LicenseArn": { "shape": "Arn" },
      "LicenseName": { "shape": "String" },
      "ProductName": { "shape": "String" },
      "ProductSKU": { "shape": "String" },
      "Issuer": { "shape": "IssuerDetails" },
      "HomeRegion": { "shape": "String" },
      "Status": { "shape": "LicenseStatus" },
      "Validity": { "shape": "DatetimeRange" },
      "Beneficiary": { "shape": "String" },
      "Entitlements": { "shape": "EntitlementList" },
      "ConsumptionConfiguration": { "shape": "ConsumptionConfiguration" },

      "LicenseMetadata": { "shape": "MetadataList" },
      "CreateTime": { "shape": "ISO8601DateTime" },
      "Version": { "shape": "String" },
      "ReceivedMetadata": { "shape": "ReceivedMetadata" }
    }
  },
  "GrantedLicenseList": {
    "type": "list",
    "member": { "shape": "GrantedLicense" }
  },
  "ISO8601DateTime": {
    "type": "string",
    "max": 50,
    "pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },

```

```

"Integer":{"type":"integer"},
"InvalidParameterValueException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"InventoryFilter":{"
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{"
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{"
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{"
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{"
  "type":"structure",
  "required":["Name"],
  "members":{"
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"}
  }
}

```



```

},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
},
"LicenseConfiguration":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
}

```

```

    }
  },
  "LicenseConfigurationAssociation":{
    "type":"structure",
    "members":{
      "ResourceArn":{"shape":"String"},
      "ResourceType":{"shape":"ResourceType"},
      "ResourceOwnerId":{"shape":"String"},
      "AssociationTime":{"shape":"DateTime"},
      "AmiAssociationScope":{"shape":"String"}
    }
  },
  "LicenseConfigurationAssociations":{
    "type":"list",
    "member":{"shape":"LicenseConfigurationAssociation"}
  },
  "LicenseConfigurationStatus":{
    "type":"string",
    "enum":[
      "AVAILABLE",
      "DISABLED"
    ]
  },
  "LicenseConfigurationUsage":{
    "type":"structure",
    "members":{
      "ResourceArn":{"shape":"String"},
      "ResourceType":{"shape":"ResourceType"},
      "ResourceStatus":{"shape":"String"},
      "ResourceOwnerId":{"shape":"String"},
      "AssociationTime":{"shape":"DateTime"},
      "ConsumedLicenses":{"shape":"BoxLong"}
    }
  },
  "LicenseConfigurationUsageList":{
    "type":"list",
    "member":{"shape":"LicenseConfigurationUsage"}
  },
  "LicenseConfigurations":{
    "type":"list",
    "member":{"shape":"LicenseConfiguration"}
  },
  "LicenseConversionContext":{
    "type":"structure",
    "members":{
      "UsageOperation":{"shape":"UsageOperation"}
    }
  },

```

```

"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{

```

```

    "type": "list",
    "member": { "shape": "License" }
  },
  "LicenseOperationFailure": {
    "type": "structure",
    "members": {
      "ResourceArn": { "shape": "String" },
      "ResourceType": { "shape": "ResourceType" },
      "ErrorMessage": { "shape": "String" },
      "FailureTime": { "shape": "DateTime" },
      "OperationName": { "shape": "String" },
      "ResourceOwnerId": { "shape": "String" },
      "OperationRequestedBy": { "shape": "String" },
      "MetadataList": { "shape": "MetadataList" }
    }
  },
  "LicenseOperationFailureList": {
    "type": "list",
    "member": { "shape": "LicenseOperationFailure" }
  },
  "LicenseSpecification": {
    "type": "structure",
    "required": [ "LicenseConfigurationArn" ],
    "members": {
      "LicenseConfigurationArn": { "shape": "String" },
      "AmiAssociationScope": { "shape": "String" }
    }
  },
  "LicenseSpecifications": {
    "type": "list",
    "member": { "shape": "LicenseSpecification" }
  },
  "LicenseStatus": {
    "type": "string",
    "enum": [
      "AVAILABLE",
      "PENDING_AVAILABLE",
      "DEACTIVATED",
      "SUSPENDED",
      "EXPIRED",
      "PENDING_DELETE",
      "DELETED"
    ]
  },
  "LicenseUsage": {
    "type": "structure",
    "members": {
      "EntitlementUsages": { "shape": "EntitlementUsageList" }
    }
  }
}

```

```

    }
  },
  "LicenseUsageException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "exception": true
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "type": "structure",
    "required": ["LicenseConfigurationArn"],
    "members": {
      "LicenseConfigurationArn": { "shape": "String" },
      "MaxResults": { "shape": "BoxInteger" },
      "NextToken": { "shape": "String" }
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationAssociations": { "shape": "LicenseConfigurationAssociations" },
      "NextToken": { "shape": "String" }
    }
  },
  "ListDistributedGrantsRequest": {
    "type": "structure",
    "members": {
      "GrantArns": { "shape": "ArnList" },
      "Filters": { "shape": "FilterList" },
      "NextToken": { "shape": "String" },
      "MaxResults": { "shape": "MaxSize100" }
    }
  },
  "ListDistributedGrantsResponse": {
    "type": "structure",
    "members": {
      "Grants": { "shape": "GrantList" },
      "NextToken": { "shape": "String" }
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "required": ["LicenseConfigurationArn"],
    "members": {
      "LicenseConfigurationArn": { "shape": "String" },
      "MaxResults": { "shape": "BoxInteger" },
      "NextToken": { "shape": "String" }
    }
  }
}

```

```

    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse":{
    "type":"structure",
    "members":{
      "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseConfigurationsRequest":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArns":{"shape":"StringList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{"shape":"LicenseConfigurations"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseConversionTasksRequest":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConversionTasksResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseManagerReportGeneratorsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },

```

```

"ListLicenseManagerReportGeneratorsResponse":{
  "type":"structure",
  "members":{
    "ReportGenerators":{"shape":"ReportGeneratorList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
}

```

```

},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
}

```



```

    }
  },
  "ListReceivedLicensesForOrganizationResponse":{
    "type":"structure",
    "members":{
      "Licenses":{"shape":"GrantedLicenseList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListReceivedLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{"shape":"ArnList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListReceivedLicensesResponse":{
    "type":"structure",
    "members":{
      "Licenses":{"shape":"GrantedLicenseList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"InventoryFilterList"}
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{"shape":"ResourceInventoryList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{"shape":"String"}
    }
  },
  "ListTagsForResourceResponse":{

```

```

    "type":"structure",
    "members":{
      "Tags":{"shape":"TagList"}
    }
  },
  "ListTokensRequest":{
    "type":"structure",
    "members":{
      "TokenIds":{"shape":"StringList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListTokensResponse":{
    "type":"structure",
    "members":{
      "Tokens":{"shape":"TokenList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListUsageForLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListUsageForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
      "NextToken":{"shape":"String"}
    }
  },
  "Location":{"type":"string"},
  "Long":{"type":"long"},
  "ManagedResourceSummary":{
    "type":"structure",
    "members":{
      "ResourceType":{"shape":"ResourceType"},
      "AssociationCount":{"shape":"BoxLong"}
    }
  },
  "ManagedResourceSummaryList":{

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```

    "type": "list",
    "member": { "shape": "ManagedResourceSummary" }
  },
  "MaxSize100": {
    "type": "integer",
    "max": 100,
    "min": 1
  },
  "MaxSize3StringList": {
    "type": "list",
    "member": { "shape": "String" },
    "max": 3
  },
  "Message": { "type": "string" },
  "Metadata": {
    "type": "structure",
    "members": {
      "Name": { "shape": "String" },
      "Value": { "shape": "String" }
    }
  },
  "MetadataList": {
    "type": "list",
    "member": { "shape": "Metadata" }
  },
  "NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "exception": true
  },
  "Options": {
    "type": "structure",
    "members": {
      "ActivationOverrideBehavior": { "shape": "ActivationOverrideBehavior" }
    }
  },
  "OrganizationConfiguration": {
    "type": "structure",
    "required": [ "EnableIntegration" ],
    "members": {
      "EnableIntegration": { "shape": "Boolean" }
    }
  },
  "PrincipalArnList": {
    "type": "list",
    "member": { "shape": "Arn" },

```

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    "max":1,
    "min":1
  },
  "ProductInformation":{
    "type":"structure",
    "required":[
      "ResourceType",
      "ProductInformationFilterList"
    ],
    "members":{
      "ResourceType":{"shape":"String"},
      "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
    }
  },
  "ProductInformationFilter":{
    "type":"structure",
    "required":[
      "ProductInformationFilterName",
      "ProductInformationFilterComparator"
    ],
    "members":{
      "ProductInformationFilterName":{"shape":"String"},
      "ProductInformationFilterValue":{"shape":"StringList"},
      "ProductInformationFilterComparator":{"shape":"String"}
    }
  },
  "ProductInformationFilterList":{
    "type":"list",
    "member":{"shape":"ProductInformationFilter"}
  },
  "ProductInformationList":{
    "type":"list",
    "member":{"shape":"ProductInformation"}
  },
  "ProvisionalConfiguration":{
    "type":"structure",
    "required":["MaxTimeToLiveInMinutes"],
    "members":{
      "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
    }
  },
  "RateLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },

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"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",

```

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    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},

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"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[]
}

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    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},
    "keyPrefix":{"shape":"String"}
  }
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},

```



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"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{

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    "Message":{ "shape":"Message" }
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",

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    "ClientToken"
  ],
  "members": {
    "LicenseManagerReportGeneratorArn": { "shape": "String" },
    "ReportGeneratorName": { "shape": "ReportGeneratorName" },
    "Type": { "shape": "ReportTypeList" },
    "ReportContext": { "shape": "ReportContext" },
    "ReportFrequency": { "shape": "ReportFrequency" },
    "ClientToken": { "shape": "ClientRequestToken" },
    "Description": { "shape": "String" }
  }
},
"UpdateLicenseManagerReportGeneratorResponse": {
  "type": "structure",
  "members": {
  }
},
"UpdateLicenseSpecificationsForResourceRequest": {
  "type": "structure",
  "required": [ "ResourceArn" ],
  "members": {
    "ResourceArn": { "shape": "String" },
    "AddLicenseSpecifications": { "shape": "LicenseSpecifications" },
    "RemoveLicenseSpecifications": { "shape": "LicenseSpecifications" }
  }
},
"UpdateLicenseSpecificationsForResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"UpdateServiceSettingsRequest": {
  "type": "structure",
  "members": {
    "S3BucketArn": { "shape": "String" },
    "SnsTopicArn": { "shape": "String" },
    "OrganizationConfiguration": { "shape": "OrganizationConfiguration" },
    "EnableCrossAccountsDiscovery": { "shape": "BoxBoolean" }
  }
},
"UpdateServiceSettingsResponse": {
  "type": "structure",
  "members": {
  }
},
"UsageOperation": {
  "type": "string",
  "max": 50
}

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    },
    "ValidationException": {
      "type": "structure",
      "members": {
        "Message": { "shape": "Message" }
      },
      "exception": true
    }
  }
}
{
  "version": "2.0",
  "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
  "operations": {
    "AcceptGrant": "<p>Accepts the specified grant.</p>",
    "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
    "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
    "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
    "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\"'>Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\"'>Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicense": "<p>Creates a license.</p>",
    "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
    "CreateLicenseConversionTaskForResource":
      "<p>Creates a new license conversion task.</p>",
    "CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",
    "CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",
    "CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",
    "DeleteGrant": "<p>Deletes the specified grant.</p>",
    "DeleteLicense": "<p>Deletes the specified license.</p>",
    "DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",
    "DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",
    "DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",
  }
}

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"ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",

"GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",

"GetGrant": "<p>Gets detailed information about the specified grant.</p>",

"GetLicense": "<p>Gets detailed information about the specified license.</p>",

"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",

"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",

"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",

"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",

"GetServiceSettings":

<p>Gets the License Manager settings for the current Region.</p>",

"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",

"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",

"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",

"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",

"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",

"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",

"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",

"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",

"ListLicenses": "<p>Lists the licenses for your account.</p>",

"ListReceivedGrants": "<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>",

"ListReceivedGrantsForOrganization": "<p>Lists the grants received for all accounts in the organization.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListReceivedLicensesForOrganization": "<p>Lists the licenses received for all accounts in the organization.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration":

<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",

"RejectGrant": "<p>Rejects the specified grant.</p>",

"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",

"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",

"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",

"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the

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resource.</p>",
  "UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"
},
"shapes": {
  "AcceptGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "AcceptGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "ActivationOverrideBehavior": {
    "base": null,
    "refs": {
      "Options$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior
of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web
Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
for the <code>Status</code> parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify
an <code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate a grant without
replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p>
</dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",

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    "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
    "Grant$GrantedOperations": "<p>Granted operations.</p>",
    "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
  }
},
"Arn": {
  "base": null,
  "refs": {
    "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "ArnList$member": null,
    "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
    "CheckoutBorrowLicenseResponse$LicenseArn":
      "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateLicenseConversionTaskForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
    "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
    "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token.</p>",
    "DeleteGrantRequest$GrantArn":
      "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "DeleteGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "DeleteLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "GetLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetLicenseUsageRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "Grant$ParentArn": "<p>Parent ARN.</p>",
    "Grant$LicenseArn": "<p>License ARN.</p>",
    "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
    "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListReceivedGrantsForOrganizationRequest$LicenseArn": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
    "PrincipalArnList$member": null,
    "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
  }
},

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"ArnList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.</p>",
    "ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
    "ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

    "ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
    "TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
  }
},
"AuthorizationException": {
  "base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
  "refs": {
  }
},
"AutomatedDiscoveryInformation": {
  "base": "<p>Describes automated discovery.</p>",
  "refs": {
    "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>",
    "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
  }
},
"Boolean": {
  "base": null,
  "refs": {
    "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>",
    "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
  }
},
"BorrowConfiguration": {
  "base": "<p>Details about a borrow configuration.</p>",
  "refs": {
    "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
  }
},
"BoxBoolean": {
  "base": null,
  "refs": {
    "BorrowConfiguration$AllowEarlyCheckIn": "<p>Indicates whether early check-ins are allowed.</p>",

```


"CreateLicenseConfigurationRequest\$LicenseCountHardLimit": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",

"CreateLicenseConfigurationRequest\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"Entitlement\$Overage": "<p>Indicates whether overages are allowed.</p>",

"Entitlement\$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",

"GetLicenseConfigurationResponse\$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",

"GetLicenseConfigurationResponse\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"GetServiceSettingsResponse\$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery is enabled.</p>",

"LicenseConfiguration\$LicenseCountHardLimit": "<p>Number of available licenses as a hard limit.</p>",

"LicenseConfiguration\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateLicenseConfigurationRequest\$LicenseCountHardLimit": "<p>New hard limit of the number of available licenses.</p>",

"UpdateLicenseConfigurationRequest\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateServiceSettingsRequest\$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"

}

},

"BoxInteger": {

"base": null,

"refs": {

"BorrowConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in minutes.</p>",

"ListAssociationsForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConfigurationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConversionTasksRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseSpecificationsForResourceRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListResourceInventoryRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListUsageForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ProvisionalConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration, in minutes.</p>"

}

},

"BoxLong": {

```

    "base": null,
    "refs": {
      "ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "CreateLicenseConfigurationRequest$LicenseCount": "<p>Number of licenses managed by the license
configuration.</p>",
      "GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
      "GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
      "LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
      "LicenseConfiguration$ConsumedLicenses":
"<p>Number of licenses consumed. </p>",
      "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
      "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
    }
  },
  "CheckInLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckInLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutType": {
    "base": null,

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"refs": {
  "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
  "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
}
},
"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
  }
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses consumed by resources.</p>",

```

```

    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
resources.</p>"
  },
  "ConsumptionConfiguration": {
    "base": "<p>Details about a consumption configuration.</p>",
    "refs": {
      "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
      "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
      "GrantedLicense$ConsumptionConfiguration":
        "<p>Configuration for consumption of the license.</p>",
      "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
    }
  },
  "CreateGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
}

```

```

"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateTokenRequest": {
  "base": null,
  "refs": {
  }
},
"CreateTokenResponse": {
  "base": null,

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    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was
started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
      "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
was changed.</p>",
      "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
      "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
    }
  },
  "DatetimeRange": {
    "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
    "refs": {
      "CreateLicenseRequest$Validity": "<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>",
      "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
      "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
      "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    }
  },
  "DeleteGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseConfigurationRequest": {
    "base": null,

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    "refs": {
    }
  },
  "DeleteLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DigitalSignatureMethod": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS) algorithm PS384. For more information, see <a
href='\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
    }
  },
  "Entitlement": {
    "base": "<p>Describes a resource entitled for use with a license.</p>",

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"refs": {
  "EntitlementList$member": null
},
"EntitlementData": {
  "base": "<p>Data associated with an entitlement resource.</p>",

  "refs": {
    "EntitlementDataList$member": null
  },
  "EntitlementDataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not supported.</p>",
      "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
      "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
    }
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
      "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
    }
  },
  "EntitlementList": {
    "base": null,
    "refs": {
      "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
      "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
      "License$Entitlements": "<p>License entitlements.</p>"
    }
  },
  "EntitlementNotAllowedException": {
    "base": "<p>The entitlement is not allowed.</p>",
    "refs": {
    }
  },
  "EntitlementUnit": {
    "base": null,
    "refs": {
      "Entitlement$Unit": "<p>Entitlement unit.</p>"
    }
  }
}

```



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},
"EntitlementUsage": {
  "base": "<p>Usage associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementUsageList$member": null
  }
},
"EntitlementUsageList": {
  "base": null,
  "refs": {
    "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
  }
},
"ExtendLicenseConsumptionRequest": {
  "base": null,
  "refs": {
  }
},
"ExtendLicenseConsumptionResponse": {
  "base": null,
  "refs": {
  }
},
"FailedDependencyException": {
  "base": "<p>A dependency required to run the API is missing.</p>",
  "refs": {
  }
},
"Filter": {
  "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation.
Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
  "refs": {
    "FilterList$member": null,
    "Filters$member": null
  }
},
"FilterLimitExceededException": {
  "base": "<p>The request uses too many filters or too many filter values.</p>",
  "refs": {
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p>
</li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li>
<li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",

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    "ListLicenseManagerReportGeneratorsRequest$Filters":
    "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>",
    "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul>
<li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
    "ListReceivedGrantsForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code>
</p> </li> </ul>",
    "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
<ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li>
<p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code>
</p> </li> <li> <p> <code>GranterAccountId</code> </p> </li> </ul>",
    "ListReceivedLicensesForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters
are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p>
</li> </ul>",
    "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Status</code> </p> </li>
<li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>IssuerName</code> </p> </li> <li> <p>
<code>Beneficiary</code> </p> </li> </ul>",
    "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <ul> <li>
<p> <code>LicenseArns</code> </p> </li> </ul>"
  }
},
"FilterName": {
  "base": null,
  "refs": {
    "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
  }
},
"FilterValue": {
  "base": null,
  "refs": {
    "FilterValues$member": null
  }
},
"FilterValues": {
  "base": null,
  "refs": {
    "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the
filter.</p>"
  }
},
"Filters": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical
operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which

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licenses are counted. Possible values are `vCPU` | `Instance` | `Core` | `Socket`. Logical operators are `EQUALS` | `NOT_EQUALS`.

- `enforceLicenseCount` - A Boolean value that indicates whether hard license enforcement is used. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `usagelimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are `EQUALS` | `NOT_EQUALS`.

"ListLicenseConversionTasksRequest\$Filters": "<p> Filters to scope the results. Valid filters are `ResourceArns` and `Status`. </p>",

"ListUsageForLicenseConfigurationRequest\$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> `resourceArn` - The ARN of the license configuration resource. Logical operators are `EQUALS` | `NOT_EQUALS`.</p> <p> `resourceType` - The resource type (`EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`). Logical operators are `EQUALS` | `NOT_EQUALS`.</p> <p> `resourceAccount` - The ID of the account that owns the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.</p> "

```

    }
  },
  "GetAccessTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetAccessTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
    "base": null,
    "refs": {

```

```

    }
  },
  "GetLicenseConversionTaskRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorResponse": {
    "base":
null,
    "refs": {
    }
  },
  "GetLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },

```

```

"GetServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"Grant": {
  "base": "<p>Describes a grant.</p>",
  "refs": {
    "GetGrantResponse$Grant": "<p>Grant details.</p>",
    "GrantList$member": null
  }
},
"GrantList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
    "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
    "ListReceivedGrantsResponse$Grants":
"<p>Received grant details.</p>"
  }
},
"GrantStatus": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
    "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
    "DeleteGrantResponse$Status": "<p>Grant status.</p>",
    "Grant$GrantStatus": "<p>Grant status.</p>",
    "RejectGrantResponse$Status": "<p>Grant status.</p>"
  }
},
"GrantedLicense": {
  "base": "<p>Describes a license that is granted to a grantee.</p>",
  "refs": {
    "GrantedLicenseList$member": null
  }
},
"GrantedLicenseList": {
  "base": null,
  "refs": {
    "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
    "ListReceivedLicensesResponse$Licenses": "<p>Received license
details.</p>"
  }
}

```

```

    },
    "ISO8601DateTime": {
      "base": null,
      "refs": {
        "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
        "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
        "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
        "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
        "DatetimeRange$Begin": "<p>Start of the time range.</p>",
        "DatetimeRange$End": "<p>End of the time range.</p>",
        "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
        "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
        "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
        "License$CreateTime": "<p>License creation time.</p>",
        "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
      }
    },
    "Integer": {
      "base": null,
      "refs": {
        "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",
        "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
      }
    },
    "InvalidParameterValueException": {
      "base": "<p>One or more parameter values are not valid.</p>",
      "refs": {
      }
    },
    "InvalidResourceStateException": {
      "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
      "refs": {
      }
    },
    "InventoryFilter": {
      "base": "<p>An inventory filter.</p>",
      "refs": {
        "InventoryFilterList$member": null
      }
    },
  },

```

```

"InventoryFilterCondition": {
  "base": null,
  "refs": {
    "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
  }
},
"InventoryFilterList": {
  "base": null,
  "refs": {
    "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
  }
},
"Issuer": {
  "base": "<p>Details about the issuer of a license.</p>",
  "refs": {
    "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
    "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
  }
},
"IssuerDetails": {
  "base": "<p>Details associated with the issuer of a license.</p>",
  "refs": {
    "GrantedLicense$Issuer": "<p>Granted license issuer.</p>",
    "License$Issuer": "<p>License issuer.</p>"
  }
},
"License": {
  "base": "<p>Software license that is managed in License Manager.</p>",
  "refs": {
    "GetLicenseResponse$License": "<p>License details.</p>",
    "LicenseList$member": null
  }
},
"LicenseConfiguration": {

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"base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",

```
"refs": {
  "LicenseConfigurations$member": null
},
"LicenseConfigurationAssociation": {
  "base": "<p>Describes an association with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationAssociations$member": null
  }
},
"LicenseConfigurationAssociations": {
  "base": null,
  "refs": {
    "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information about the associations for the license configuration.</p>"
  }
},
"LicenseConfigurationStatus": {
  "base": null,
  "refs": {
    "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration.</p>"
  }
},
"LicenseConfigurationUsage": {
  "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationUsageList$member": null
  }
},
"LicenseConfigurationUsageList": {
  "base": null,
  "refs": {
    "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the license configurations.</p>"
  }
},
"LicenseConfigurations": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license configurations.</p>"
  }
}
```



```

    },
    "LicenseConversionContext": {
      "base": "<p>Information about a license type conversion task.</p>",
      "refs": {
        "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies the license type you are converting from. For the structure of the source license, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\"'>Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
        "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\"'>Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
        "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type converted from.</p>",
        "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type converted to.</p>",
        "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task converted from.</p>",
        "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion task converted to.</p>"
      }
    },
    },
    "LicenseConversionTask": {
      "base": "<p>Information about a license type conversion task.</p>",
      "refs": {
        "LicenseConversionTasks$member": null
      }
    },
    },
    "LicenseConversionTaskId": {
      "base": null,
      "refs": {
        "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId": "<p>The ID of the created license type conversion task.</p>",
        "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to retrieve information on.</p>",
        "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion task.</p>",
        "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
      }
    },
    },
    "LicenseConversionTaskStatus": {
      "base": null,
      "refs": {
        "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
        "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
      }
    },
    },
  },

```

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"LicenseConversionTasks": {
  "base": null,
  "refs": {
    "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
configuration tasks for your account.</p>"
  }
},
"LicenseCountingType": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
    "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
  }
},
"LicenseDeletionStatus": {
  "base": null,
  "refs": {
    "DeleteLicenseResponse$Status": "<p>License status.</p>"
  }
},
"LicenseList": {
  "base": null,
  "refs": {
    "ListLicenseVersionsResponse$Lenses": "<p>License details.</p>",
    "ListLicensesResponse$Lenses": "<p>License details.</p>"
  }
},
"LicenseOperationFailure": {
  "base": "<p>Describes the failure of a license operation.</p>",
  "refs": {
    "LicenseOperationFailureList$member": null
  }
},
"LicenseOperationFailureList": {
  "base":
null,
  "refs": {
    "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
  }
},
"LicenseSpecification": {
  "base": "<p>Details for associating a license configuration with a resource.</p>",
  "refs": {

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    "LicenseSpecifications$member": null
  }
},
"LicenseSpecifications": {
  "base": null,
  "refs": {
    "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
  }
},
"LicenseStatus": {
  "base": null,
  "refs": {
    "CreateLicenseResponse$Status": "<p>License status.</p>",
    "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
    "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
    "GrantedLicense$Status": "<p>Granted license status.</p>",
    "License$Status": "<p>License status.</p>"
  }
},
"LicenseUsage": {
  "base": "<p>Describes the entitlement usage associated with a license.</p>",
  "refs": {
    "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
  }
},
"LicenseUsageException": {
  "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsRequest": {
  "base": null,
  "refs": {

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    }
  },
  "ListDistributedGrantsResponse": {
    {
      "base": null,
      "refs": {
        }
      },
    "ListFailuresForLicenseConfigurationOperationsRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListFailuresForLicenseConfigurationOperationsResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseConfigurationsRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseConfigurationsResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseConversionTasksRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseConversionTasksResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseManagerReportGeneratorsRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseManagerReportGeneratorsResponse": {
      "base": null,
      "refs": {
        }
      },
  },

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"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseSpecificationsForResourceResponse":
{
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsResponse": {
  "base": null,

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    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesRequest":
  {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensRequest": {
    "base": null,
    "refs": {
    }
  }

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},
"ListTokensResponse": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"Location": {
  "base": null,
  "refs": {
    "RedirectException$Location": null
  }
},
"Long":
{
  "base": null,
  "refs": {
    "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
  }
},
"ManagedResourceSummary": {
  "base": "<p>Summary information about a managed resource.</p>",
  "refs": {
    "ManagedResourceSummaryList$member": null
  }
},
"ManagedResourceSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed resources.</p>",
    "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
  }
},
"MaxSize100": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a

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single call.</p>",

"ListLicenseVersionsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicensesRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListReceivedGrantsForOrganizationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListReceivedGrantsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListReceivedLicensesForOrganizationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListReceivedLicensesRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListTokensRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>"

}

},

"MaxSize3StringList": {

"base": null,

"refs": {

"CreateTokenRequest\$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token.</p>",

"GetAccessTokenRequest\$TokenProperties": "<p>Token properties to validate against those present in the JWT token.</p>",

"TokenData\$TokenProperties": "<p>Data specified by the caller.</p>"

}

},

"Message": {

"base": null,

"refs": {

"AccessDeniedException\$Message": null,

"AuthorizationException\$Message": null,

"ConflictException\$Message": null,

"EntitlementNotAllowedException\$Message": null,

"FailedDependencyException\$Message": null,

"FilterLimitExceededException\$Message": null,

"InvalidParameterValueException\$Message": null,

"InvalidResourceStateException\$Message": null,

"LicenseUsageException\$Message": null,

"NoEntitlementsAllowedException\$Message": null,

"RateLimitExceededException\$Message": null,

"RedirectException\$Message": null,

"ResourceLimitExceededException\$Message": null,

"ResourceNotFoundException\$Message": null,

"ServerInternalException\$Message":

null,

"UnsupportedDigitalSignatureMethodException\$Message": null,

"ValidationException\$Message": null

}

},

"Metadata": {


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"base": "<p>Describes key/value pairs.</p>",
"refs": {
  "MetadataList$member": null
}
},
"MetadataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
    "License$LicenseMetadata": "<p>License metadata.</p>",
    "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
  }
},
"NoEntitlementsAllowedException": {
  "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
  "refs": {
  }
},
"Options": {
  "base": "<p>The options you can specify when you create a new version of a grant, such as activation override
behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>",
  "refs": {
    "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
    "Grant$Options": "<p>The options specified for the grant.</p>"
  }
},
"OrganizationConfiguration": {
  "base": "<p>Configuration information for Organizations.</p>",
  "refs": {
    "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated
with License Manager for cross-account discovery.</p>",
    "UpdateServiceSettingsRequest$OrganizationConfiguration":
"<p>Enables integration with Organizations for cross-account discovery.</p>"
  }
},
"PrincipalArnList": {
  "base": null,
  "refs": {
    "CreateGrantRequest$Principals": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the
account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the

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OU.

- An organization, which will include all accounts across your organization.

"

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    }
  },
  "ProductInformation": {
    "base": "<p>Describes product information for a license configuration.</p>",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": "<p>Describes product information filters.</p>",
    "refs": {
      "ProductInformationFilterList$member":
null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the
resource type is <code>SSM_MANAGED</code>:</p> <ul> <li> <p> <code>Application Name</code> - The
name of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application
Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p>
</li> <li> <p> <code>Application Version</code> - The version of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Name</code> - The name of the platform. Logical
operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Type</code> - The platform type.
Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Tag:key</code> - The key of a tag
attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of an Amazon
Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> -
The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.
Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-
web</code> | <code>windows-server-datacenter</code>.</p> </li> </ul> <p>The following filters and logical
operators are supported when the resource type is <code>RDS</code>:</p> <ul> <li> <p> <code>Engine
Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values
are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>
</li> <li> <p> <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>.
Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack
sqlt</code> | <code>ols</code> | <code>olap</code>.</p> </li> </ul>"
```

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    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
"<p>Product information.</p>",
      "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
      "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
      "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
    }
  },
  "ProvisionalConfiguration": {
    "base": "<p>Details about a provisional configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
    }
  },
  "RateLimitExceededException": {
    "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": "<p>Metadata associated with received licenses and grants.</p>",
    "refs": {
      "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "RejectGrantResponse": {
    "base": null,
    "refs": {
  }

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    }
  },
  "RenewType": {
    "base": null,
    "refs": {
      "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
    }
  },
  "ReportContext": {
    "base": "<p>Details of the license configuration that this generator reports on.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
      "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
"<p>The report context.</p>"
    }
  },
  "ReportFrequency": {
    "base": "<p>Details about how frequently reports are generated.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
      "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated.</p>"
    }
  },
  "ReportFrequencyType": {
    "base": null,
    "refs": {
      "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
    }
  },
  "ReportGenerator": {
    "base": "<p>Describe the details of a report generator.</p>",
    "refs": {
      "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
"<p>A report generator that creates periodic reports about your license configurations.</p>",
      "ReportGeneratorList$member": null
    }
  },
  "ReportGeneratorList": {
    "base": null,
    "refs": {
      "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates periodic reports about your license configurations.</p>"
    }
  }
}

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    }
  },
  "ReportGeneratorName": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
    }
  },
  "ReportType": {
    "base": null,
    "refs": {
      "ReportTypeList$member": null
    }
  },
  "ReportTypeList": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",
      "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
    }
  },
  "ResourceInventory": {
    "base": "<p>Details about a resource.</p>",
    "refs": {
      "ResourceInventoryList$member": null
    }
  },
  "ResourceInventoryList": {
    "base": null,
    "refs": {
      "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
    }
  },
  "ResourceLimitExceededException": {
    "base": "<p>Your resource limits have been exceeded.</p>",
    "refs": {
  }
}

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```

},
"ResourceNotFoundException": {
  "base": "<p>The resource cannot be found.</p>",
  "refs": {
  }
},
"ResourceType": {
  "base": null,
  "refs": {
    "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
    "LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
    "LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
    "LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
    "ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
    "ResourceInventory$ResourceType": "<p>Type of resource.</p>"
  }
},
"S3Location": {
  "base":
"<p>Details of the S3 bucket that report generator reports are published to.</p>",
  "refs": {
    "ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
  }
},
"ServerInternalException": {
  "base": "<p>The server experienced an internal error. Try again.</p>",
  "refs": {
  }
},
"SignedToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
    "CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
  }
},
"StatusReasonMessage": {
  "base": null,
  "refs": {
    "CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
    "DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
    "Grant$StatusReason": "<p>Grant status reason.</p>",
    "ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
  }
},

```

```

"String": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Version": "<p>Grant version.</p>",
    "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
    "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the checkout license.</p>",
    "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",
    "CreateGrantResponse$Version": "<p>Grant version.</p>",
    "CreateGrantVersionRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantVersionRequest$SourceVersion": "<p>Current version of the grant.</p>",
    "CreateGrantVersionResponse$Version": "<p>New version of the grant.</p>",
    "CreateLicenseConfigurationRequest$Name": "<p>Name of the license configuration.</p>",
    "CreateLicenseConfigurationRequest$Description": "<p>Description of the license configuration.</p>",
    "CreateLicenseConfigurationResponse$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
    "CreateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
    "CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
"<p>The Amazon Resource Name (ARN) of the new report generator.</p>",
    "CreateLicenseRequest$LicenseName": "<p>License name.</p>",
    "CreateLicenseRequest$ProductName": "<p>Product name.</p>",
    "CreateLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CreateLicenseRequest$HomeRegion": "<p>Home Region for the license.</p>",
    "CreateLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CreateLicenseResponse$Version": "<p>License version.</p>",
    "CreateLicenseVersionRequest$LicenseName": "<p>License name.</p>",
    "CreateLicenseVersionRequest$ProductName": "<p>Product name.</p>",
    "CreateLicenseVersionRequest$HomeRegion": "<p>Home Region of the license.</p>",
    "CreateLicenseVersionRequest$SourceVersion": "<p>Current version of the license.</p>",
    "CreateLicenseVersionResponse$Version": "<p>New version of the license.</p>",
    "CreateTokenResponse$TokenId":
"<p>Token ID.</p>",
    "DeleteGrantRequest$Version": "<p>Current version of the grant.</p>",
    "DeleteGrantResponse$Version": "<p>Grant version.</p>",
    "DeleteLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",
    "DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon
Resource Name (ARN) of the report generator to be deleted.</p>",

```

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name": "<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue":

<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey":

"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn":

"<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus":

"<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",
 "ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",
 "ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedGrantsForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedGrantsForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedLicensesForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedLicensesForOrganizationResponse\$NextToken":
 "<p>Token for the next set of results.</p>",
 "ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",
 "ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",
 "MaxSize3StringList\$member": null,
 "Metadata\$Name": "<p>The key name.</p>",
 "Metadata\$Value": "<p>The value.</p>",
 "ProductInformation\$ResourceType": "<p>Resource type. The possible values are

`<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
 "ProductInformationFilter$ProductInformationFilterName": "<p>Filter name.</p>",
 "ProductInformationFilter$ProductInformationFilterComparator": "<p>Logical operator.</p>",
 "RejectGrantResponse$Version": "<p>Grant version.</p>",
 "ReportGenerator$ReportGeneratorName": "<p>Name of the report generator.</p>",
 "ReportGenerator$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
 "ReportGenerator$LastRunStatus": "<p>Status of the last report generation attempt.</p>",
 "ReportGenerator$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",
 "ReportGenerator$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",
 "ReportGenerator$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",
 "ReportGenerator$Description": "<p>Description of the report generator.</p>",
 "ReportGenerator$CreateTime": "<p>Time the report was created.</p>",
 "ResourceInventory$ResourceId": "<p>ID of the resource.</p>",
 "ResourceInventory$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",
 "ResourceInventory$Platform": "<p>Platform of the resource.</p>",
 "ResourceInventory$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",
 "ResourceInventory$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",
 "S3Location$bucket": "<p>Name of the S3 bucket reports are published to.</p>",
 "S3Location$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",
 "StringList$member": null,
 "Tag$Key": "<p>Tag key.</p>",
 "Tag$Value": "<p>Tag value.</p>",
 "TagKeyList$member": null,
 "TagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "TokenData$TokenId": "<p>Token ID.</p>",
 "TokenData$TokenType": "<p>Type of token generated. The supported value is
 <code>REFRESH_TOKEN</code>.</p>",
 "TokenData$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "TokenData$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and
 <code>DELETED</code>.</p>",
 "UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
 "UpdateLicenseConfigurationRequest$Name":
 "<p>New name of the license configuration.</p>",
 "UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
 "UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
 "UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>",`

"UpdateServiceSettingsRequest\$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"

}

},

"StringList": {

"base": null,

"refs": {

"CreateLicenseConfigurationRequest\$LicenseRules":

"<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.</p><p><code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code> </p><p><code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p><p><code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code> </p><p><code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p><p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",

"GetLicenseConfigurationResponse\$LicenseRules": "<p>License rules.</p>",

"LicenseConfiguration\$LicenseRules": "<p>License rules.</p>",

"ListLicenseConfigurationsRequest\$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the license configurations.</p>",

"ListTokensRequest\$TokenIds": "<p>Token IDs.</p>",

"ProductInformationFilter\$ProductInformationFilterValue": "<p>Filter value.</p>",

"UpdateLicenseConfigurationRequest\$LicenseRules": "<p>New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost.</p>"

}

},

"Tag": {

"base": "<p>Details about a tag for a license configuration.</p>",

"refs": {

"TagList\$member": null

}

},

"TagKeyList": {

"base": null,

"refs": {

"UntagResourceRequest\$TagKeys": "<p>Keys identifying the tags to remove.</p>"

}

},

"TagList": {

"base": null,

"refs": {

```

"CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
"CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
"GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
"ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
"ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
"TagResourceRequest$Tags": "<p>One or more tags.</p>"
}
},
"TagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"TagResourceResponse": {
  "base": null,
  "refs": {

  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
},
"TokenList": {
  "base": null,
  "refs": {
    "ListTokensResponse$Tokens": "<p>Received token details.</p>"
  }
},
"TokenString": {
  "base": null,
  "refs": {
    "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
  }
},
"TokenType": {
  "base": null,
  "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
  }
},
"UnsupportedDigitalSignatureMethodException": {
  "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
  "refs": {

```

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    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },

```

```

"UpdateServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"UsageOperation": {
  "base": null,
  "refs": {
    "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
  }
},
"ValidationException": {
  "base": "<p>The provided input is not valid. Try your request again.</p>",
  "refs": {
  }
}
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    }
  ]
}

```

```

    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-1"
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-2"
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-3"
    }
  },
  {
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-south-1.amazonaws.com"
      }
    }
  }
}

```



```

    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-south-1"
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack":
false,
      "Region": "ap-southeast-1"
    }
  },
  {
    "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-southeast-2"
    }
  },
  {
    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-3.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-southeast-3"
    }
  },
  {

```

```

    "documentation":
    "For region ca-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ca-central-1"
    }
},
{
    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-central-1"
    }
},
{
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint":
{
            "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-north-1"
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
    },
    "params": {

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        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-south-1"
    }
},
{
    "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
    },
    "params":
{
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-1"
    }
},
{
    "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-2"
    }
},
{
    "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-3"
    }
},
{
    "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",

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"expect": {
  "endpoint": {
    "url": "https://license-manager.me-south-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "me-south-1"
}
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "sa-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,

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        "Region": "us-east-1"
    },
    {
        "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-east-2"
        }
    },
    {
        "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-east-2"
        }
    },
    {
        "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-west-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-west-1"
        }
    },
    {
        "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {

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        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-1"
    }
},
{
    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-west-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-west-2"
    }
},
{
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-west-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-2"
    }
},
{
    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-1.api.aws"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-east-1"
    }
}

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```

},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": true,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "cn-northwest-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },

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```

    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",

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"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": true,
  "UseDualStack": false,
  "Region": "us-gov-east-1"
}
},
{
  "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-gov-west-1"
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-gov-west-1"
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,

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    "Region": "us-gov-east-1"
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
      }
    }
  }

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    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params":
  {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-isob-east-1"
  }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-isob-east-1"
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
      }
    }
  }

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```

    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-isob-east-1"
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": true,
    "Region": "us-isob-east-1"
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-1",
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",

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    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
  },

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    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "rules": [
        {

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        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {

                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ]
        }
    ],
    "rules": [
        {

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      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            }
          ],
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"

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```

        },
        "supportsFIPS"
    ]
}
]
},
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
},
"rules": [
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or

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both",

```
        "type": "error"
      }
    ],
    "type": "tree"
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ]
  },
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ],
      true
    ]
  }
  ],
  "rules": [
    {
      "conditions": [],
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
```

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        "properties": {},
        "headers": {}

    },
    "type": "endpoint"
  }
],
"type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
          ]
        }
      ]
    }
  ]
}

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```

        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [],
    "rules": [

{
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
  "type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},

"headers": {}
      },
      "type": "endpoint"
    }
  ]
}

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```

        }
      ],
      "type": "tree"
    }
  ],
  "type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
],
"type": "tree"
}
]
}
{
  "pagination": {
    "ListLinuxSubscriptionInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Instances"
    },
    "ListLinuxSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Subscriptions"
    },
    "ListRegisteredSubscriptionProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "RegisteredSubscriptionProviders"
    }
  }
}
{
  "version": "1.0",
  "examples": {
  }
}

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{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
    "ListInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceSummaries"
    },
    "ListProductSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "ProductUserSummaries"
    },
    "ListUserAssociations": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceUserSummaries"
    }
  }
}

```

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```
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-user-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "serviceFullName":"AWS License Manager User Subscriptions",
    "serviceId":"License Manager User Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-user-subscriptions",
    "uid":"license-manager-user-subscriptions-2018-05-10"
  },
  "operations":{
    "AssociateUser":{
      "name":"AssociateUser",
      "http":{
        "method":"POST",
        "requestUri":"/user/AssociateUser",
        "responseCode":200
      },
      "input":{"shape":"AssociateUserRequest"},
      "output":{"shape":"AssociateUserResponse"},
      "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
      ],
      "idempotent":true
    },
    "DeregisterIdentityProvider":{
      "name":"DeregisterIdentityProvider",
      "http":{
        "method":"POST",
        "requestUri":"/identity-provider/DeregisterIdentityProvider",
        "responseCode":200
      }
    }
  }
}
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    },
    "input": { "shape": "DeregisterIdentityProviderRequest" },
    "output": { "shape": "DeregisterIdentityProviderResponse" },
    "errors": [
      { "shape": "ServiceQuotaExceededException" },
      { "shape": "ConflictException" },
      { "shape": "ValidationException" },
      { "shape": "ThrottlingException" },
      { "shape": "InternalServerError" },
      { "shape": "ResourceNotFoundException" },
      { "shape": "AccessDeniedException" }
    ],
    "idempotent": true
  },
  "DisassociateUser": {
    "name": "DisassociateUser",
    "http": {
      "method": "POST",
      "requestUri": "/user/DisassociateUser",
      "responseCode": 200
    },
    "input": { "shape": "DisassociateUserRequest" },
    "output": { "shape": "DisassociateUserResponse" },
    "errors": [
      { "shape": "ServiceQuotaExceededException" },
      { "shape": "ConflictException" },
      { "shape": "ValidationException" },
      { "shape": "ThrottlingException" },
      { "shape": "InternalServerError" },
      { "shape": "ResourceNotFoundException" },
      { "shape": "AccessDeniedException" }
    ],
    "idempotent": true
  },
  "ListIdentityProviders": {
    "name": "ListIdentityProviders",
    "http": {
      "method": "POST",
      "requestUri": "/identity-provider/ListIdentityProviders",
      "responseCode": 200
    },
    "input": { "shape": "ListIdentityProvidersRequest" },
    "output": { "shape": "ListIdentityProvidersResponse" },
    "errors": [
      { "shape": "ServiceQuotaExceededException" },
      { "shape": "ConflictException" },
      { "shape": "ValidationException" },
      { "shape": "ThrottlingException" },

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```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",

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    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
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    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
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"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},

  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},

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    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

    {"shape":"AccessDeniedException"}
  ]
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{

```

```

    "message":{"shape":"String"}
  },
  "exception":true
},
"ActiveDirectoryIdentityProvider":{
  "type":"structure",
  "members":{
    "DirectoryId":{"shape":"String"}
  }
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ]
}

```

```

    ],
    "members":{
      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"}
    }
  },
  "DeregisterIdentityProviderResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
    }
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{"shape":"InstanceUserSummary"}
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Attribute":{"shape":"String"},
      "Operation":{"shape":"String"},
      "Value":{"shape":"String"}
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "IdentityProvider":{
    "type":"structure",

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"members":{
  "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
},
"union":true
},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"},
    "Status":{"shape":"String"}
  }
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",

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```

    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{

    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},

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    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListProductSubscriptionsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Product":{"shape":"String"}
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId"
  ],
  "members":{
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListUserAssociationsResponse":{
  "type":"structure",

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```

"members":{
  "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
  "NextToken":{"shape":"String"}
}
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{

```

```

"type":"structure",
"members":{
  "message":{"shape":"String"}
},
"error":{
  "statusCode":404,
  "senderFault":true
},
"exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ],
  "members":{
    "SecurityGroupId":{"shape":"SecurityGroup"},
    "Subnets":{"shape":"SettingsSubnetsList"}
  }
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},

```

```

    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",

```

```

"members":{
  "message":{"shape":"String"}
},
"exception":true
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"shape":"Subnets"},
    "RemoveSubnets":{"shape":"Subnets"},
    "SecurityGroupId":{"shape":"SecurityGroup"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}

```

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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "DeregisterSubscriptionProvider": {
      "name": "DeregisterSubscriptionProvider",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/DeregisterSubscriptionProvider",
        "responseCode": 200
      },
      "input": { "shape": "DeregisterSubscriptionProviderRequest" },
      "output": { "shape": "DeregisterSubscriptionProviderResponse" },
      "errors": [
        { "shape": "InternalServerErrorException" },
        { "shape": "ResourceNotFoundException" },
        { "shape": "ThrottlingException" },
        { "shape": "ValidationException" }
      ],
      "idempotent": true
    }
  }
}
```

```

},
"GetRegisteredSubscriptionProvider":{
  "name":"GetRegisteredSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],

```

```

    "idempotent":true
  },
  "ListLinuxSubscriptions":{
    "name":"ListLinuxSubscriptions",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptions",
      "responseCode":200
    },
    "input":{"shape":"ListLinuxSubscriptionsRequest"},
    "output":{"shape":"ListLinuxSubscriptionsResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "ListRegisteredSubscriptionProviders":{
    "name":"ListRegisteredSubscriptionProviders",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
      "responseCode":200
    },
    "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
    "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "ListTagsForResource":{
    "name":"ListTagsForResource",
    "http":{
      "method":"GET",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"ListTagsForResourceRequest"},
    "output":{"shape":"ListTagsForResourceResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ValidationException"}
    ]
  }
]

```

```

},
"RegisterSubscriptionProvider":{
  "name":"RegisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterSubscriptionProviderRequest"},
  "output":{"shape":"RegisterSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "idempotent":true
}

```

```

    },
    "UpdateServiceSettings":{
      "name":"UpdateServiceSettings",
      "http":{
        "method":"POST",
        "requestUri":"/subscription/UpdateServiceSettings",
        "responseCode":200
      },
      "input":{"shape":"UpdateServiceSettingsRequest"},
      "output":{"shape":"UpdateServiceSettingsResponse"},
      "errors":[
        {"shape":"InternalServerErrorException"},
        {"shape":"ThrottlingException"},
        {"shape":"ValidationException"}
      ],
      "idempotent":true
    }
  },
  "shapes":{
    "Boolean":{
      "type":"boolean",
      "box":true
    },
    "BoxInteger":{
      "type":"integer",
      "box":true
    },
    "BoxLong":{
      "type":"long",
      "box":true
    },
    "DeregisterSubscriptionProviderRequest":{
      "type":"structure",
      "required":["SubscriptionProviderArn"],
      "members":{
        "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
      }
    },
    "DeregisterSubscriptionProviderResponse":{
      "type":"structure",
      "members":{
      }
    },
    "Filter":{
      "type":"structure",
      "members":{
        "Name":{"shape":"String"},
        "Operator":{"shape":"Operator"},

```

```

    "Values":{"shape":"StringList"}
  }
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetRegisteredSubscriptionProviderRequest":{
  "type":"structure",
  "required":["SubscriptionProviderArn"],
  "members":{
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
  }
},
"GetRegisteredSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},
    "StatusMessage":{"shape":"StringMap"}
  }
},
"Instance":{
  "type":"structure",
  "members":{
    "AccountID":{"shape":"String"},
    "AmiId":{"shape":"String"},
    "DualSubscription":{"shape":"String"},
    "InstanceID":{"shape":"String"},
    "InstanceType":{"shape":"String"},

```

```

    "LastUpdatedTime":{"shape":"String"},
    "OsVersion":{"shape":"String"},
    "ProductCode":{"shape":"ProductCodeList"},
    "Region":{"shape":"String"},
    "RegisteredWithSubscriptionProvider":{"shape":"String"},
    "Status":{"shape":"String"},
    "SubscriptionName":{"shape":"String"},
    "SubscriptionProviderCreateTime":{"shape":"String"},
    "SubscriptionProviderUpdateTime":{"shape":"String"},
    "UsageOperation":{"shape":"String"}
  }
},

"InstanceList":{
  "type":"list",
  "member":{"shape":"Instance"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},

```

```

    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionInstancesResponse":{
    "type":"structure",
    "members":{
      "Instances":{"shape":"InstanceList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLinuxSubscriptionsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "Subscriptions":{"shape":"SubscriptionList"}
    }
  },
  "ListRegisteredSubscriptionProvidersRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
      "NextToken":{"shape":"String"},
      "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  }

```



```

},
"ListRegisteredSubscriptionProvidersResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "RegisteredSubscriptionProviders":{"shape":"RegisteredSubscriptionProviderList"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{"shape":"Tags"}
  }
},
"Operator":{
  "type":"string",
  "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
  "min":1
},
"OrganizationIntegration":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
  "type":"structure",

```

```

"required":[
  "SecretArn",
  "SubscriptionProviderSource"
],
"members":{
  "SecretArn":{"shape":"SecretArn"},
  "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
  "Tags":{"shape":"Tags"}
}
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{"shape":"String"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
  }
},
"RegisteredSubscriptionProvider":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",

```

```

    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{"
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{"
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{"
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{"
  "type":"structure",
  "members":{"
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{"
  "type":"list",
  "member":{"shape":"Subscription"}
},
"SubscriptionProviderArn":{"
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
},
"SubscriptionProviderSource":{"
  "type":"string",
  "enum":["RedHat"]
},
"SubscriptionProviderSourceList":{"
  "type":"list",
  "member":{"shape":"SubscriptionProviderSource"}
},

```

```

"SubscriptionProviderStatus":{
  "type":"string",
  "enum":[
    "ACTIVE",
    "INVALID",
    "PENDING"
  ]
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tags"
  ],
  "members":{
    "resourceArn":{"
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tags":{"shape":"Tags"}
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },

```

```

    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tagKeys"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tagKeys":{
        "shape":"TagKeyList",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "required":[
      "LinuxSubscriptionsDiscovery",
      "LinuxSubscriptionsDiscoverySettings"
    ],
    "members":{
      "AllowUpdate":{"shape":"Boolean"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },

```

```

"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}
{
  "pagination": {
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {

```

```

"conditions": [
  {
    "fn": "isSet",
    "argv": [
      {
        "ref": "Endpoint"
      }
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
      },
      {

```

```

        "conditions": [],

"endpoint": {
    "url": {
        "ref": "Endpoint"
    },
    "properties": {},
    "headers": {}
    },
    "type": "endpoint"
    }
    ]
    }
    ],
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ]
                            },
                            "assign": "PartitionResult"
                        ]
                    },
                    {
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [

```


true

```
{
  "fn": "booleanEquals",
  "argv": [
    {
      "ref": "UseFIPS"
    },
    true
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {

```

```

        "ref": "PartitionResult"
      },
      "supportsDualStack"
    ]
  }
]
},
"type": "tree",
"rules": [
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  }
]
}

],
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
  "type": "error"
}
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ]
}

```

```

    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ],
    "supportsFIPS"
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url":
"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  }
],
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}

```

```

    }
  ]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv":
[
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "type": "tree",
          "rules": [
            {
              "conditions": [],
              "endpoint": {
                "url": "https://license-

```

```

manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]

}
],
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
]
}
]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
]
{
  "testCases": [

```

```

{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {

```

```

        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {

```

```

        "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},

```



```

{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},

```

```

{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},

```

```

{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect":
{
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {

```

```

        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "Missing region",
    "expect": {
        "error": "Invalid Configuration: Missing Region"
    }
}
],
"version": "1.0"
}

```

1.383 go-resiliency 1.7.0

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1.384 go-compute-metadata 0.5.0

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

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
"google.golang.org/api/iterator"  
)
```

```
func ExampleNewLicensesRESTClient() {  
    ctx := context.Background()  
    // This snippet has been automatically generated and should be regarded as a code template only.  
    // It will  
    require modifications to work:  
    // - It may require correct/in-range values for request initialization.  
    // - It may require specifying regional endpoints when creating the service client as shown in:  
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options  
    c, err := compute.NewLicensesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  
  
    // TODO: Use client.  
    _ = c  
}
```

```
func ExampleLicensesClient_Delete() {  
    ctx := context.Background()  
    // This snippet has been automatically generated and should be regarded as a code template only.  
    // It will require modifications to work:  
    // - It may require correct/in-range values for request initialization.  
    // - It may require specifying regional endpoints when creating the service client as shown in:  
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options  
    c, err := compute.NewLicensesRESTClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()
```

```
    req := &computepb.DeleteLicenseRequest{  
        //  
        // TODO: Fill request struct fields.  
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.  
    }  
    op, err := c.Delete(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
  
    err = op.Wait(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
}
```

```

}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```



```

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

```

```

}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

package compute_test

import (
    "context"

```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute_pb.GetLicenseCodeRequest{
        // TODO: Fill request
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute_pb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```

reflect "reflect"
sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANT_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANT_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANT_TYPE_UNSPECIFIED": 0,
        "USER":                  1,
        "GROUP":                 2,
        "EVERYONE":              3,
    }
)

```

```

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
    }

```

```

3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous

```

```

// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
if x != nil && x.GranteeType != nil {
return *x.GranteeType
}
return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
if x != nil && x.EmailAddress != nil {
return *x.EmailAddress
}
return ""
}

func (x *Permission) GetRole() Permission_Role {
if x != nil && x.Role != nil {
return *x.Role
}
return Permission_ROLE_UNSPECIFIED
}

```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,
    0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
    0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
    0x2e, 0x63, 0x6f, 0x6d,
    0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
    0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```

0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
        (Permission_Role)(0),       // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),         // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->

```



```

google.ai.generativelanguage.v1beta.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
if !protoimpl.UnsafeEnabled {
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
switch v := v.(*Permission); i {
case 0:
return &v.state
case 1:
return &v.sizeCache
case 2:
return &v.unknownFields
default:
return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:
file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        GetIamPolicy:
            []gax.CallOption{
                gax.WithTimeout(600000 * time.Millisecond),
                gax.WithRetry(func() gax.Retryer {
                    return gax.OnHTTPCodes(gax.Backoff{
                        Initial: 100 * time.Millisecond,
                        Max:     60000 * time.Millisecond,
                        Multiplier: 1.30,
                    },
                        http.StatusGatewayTimeout,
                        http.StatusServiceUnavailable)
                }),
            },
        Insert: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        List: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,

```

```

    Max:    60000 * time.Millisecond,
    Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

```

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.

```

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use

only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string
```

// The http client.

```
httpClient *http.Client
```

// operationClient is used to call the operation-specific management service.

```
operationClient *GlobalOperationsClient
```

// The x-goog-* headers to be sent with each request.

```
xGoogHeaders []string
```

// Points back to the CallOptions field of the containing LicensesClient

```
CallOptions **LicensesCallOptions
```

```

}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//

```

```

setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{ "gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient
    = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.

```



```

hds := []string{ "x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf,
err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{

```

```

c:    c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err

```

```

    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and
    context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],

```

```

opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()

```

```

jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId",
        fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

```

```

}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {

```

```

return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

```

```

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```



```

    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err := googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
// the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type",
"application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

1.385 go-auth-oauth2adapt 0.2.3

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```

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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)

```

```

if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*computepb.LicensesListResponse)
    }
}

```

```

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

}

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

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// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,

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[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

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// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,

```

0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
    file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            }
        }
    }
}

```

```

case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// You may obtain a copy of the License at
//
// https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

```



```

"bytes"
"context"
"fmt"
"io"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

```

```

var newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
            },
        },
    }
}

```

```

    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
GetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```
type internalLicensesClient interface {
```

```
    Close() error
```

```
    setGoogleClientInfo(...string)
```

```
    Connection() *grpc.ClientConn
```

```
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```

Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

 // The internal transport-dependent client.

 internalClient internalLicensesClient

 // The call options for this service.

 CallOptions *LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c *LicensesClient) Close() error {

 return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {

 c.internalClient.setGoogleClientInfo(keyval...)

}

//

Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

func (c *LicensesClient) Connection() *grpc.ClientConn {

 return c.internalClient.Connection()

}

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```

intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient
= nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
            url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
    })
    if err != nil {
        return nil, err
    }
    return resp, nil
}
```

```

    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf,
err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)

```



```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }
}

```

```

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

```

```
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
```

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {  
    it := &LicenseIterator{ }
```

```
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
```

```
    unmarshalOptions := &protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
```

```
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
```

```
        resp := &computepb.LicensesListResponse{ }
```

```
        if pageToken != "" {
```

```
            req.PageToken = proto.String(pageToken)
```

```
        }
```

```
        if pageSize > math.MaxInt32 {
```

```
            req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
        } else if pageSize != 0 {
```

```
            req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
        }
```

```
        baseUrl, err := url.Parse(c.endpoint)
```

```
        if err != nil {
```

```
            return nil, "", err
```

```
        }
```

```
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
        params := url.Values{ }
```

```
        if req != nil && req.Filter != nil {
```

```
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
        }
```

```
        if req != nil && req.MaxResults != nil {
```

```
            params.Add("maxResults",
```

```
            fmt.Sprintf("%v", req.GetMaxResults()))
```

```
        }
```

```
        if req != nil && req.OrderBy != nil {
```

```
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
        }
```

```
        if req != nil && req.PageToken != nil {
```

```
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
        }
```

```
        if req != nil && req.ReturnPartialSuccess != nil {
```

```
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
```

```
        }
```

```
        baseUrl.RawQuery = params.Encode()
```

```

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
}

```

```

    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err

```

```

    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

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

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```



```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return

```

```

nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

1.386 google-api-go-client 0.189.0

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1.388 cron 3.0pl1-184ubuntu2

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
*
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
```

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
```

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```

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```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
```

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```
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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
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- *
- * @(#)bitstring.h 5.2
- (Berkeley) 4/4/90
- */

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

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

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

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

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

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

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

say:
make all

su and say:
make install

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

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

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

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

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

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

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

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

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

Found in path(s):
* /cron-3-0p11-orig-1-tar-gz/cron-3.0p11.orig/INSTALL

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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

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

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

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

Found in path(s):

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.389 readline 8.2-4build1

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@center Version 1.3, 3 November 2008

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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

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

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

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

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

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/man1,
which will be hard since there will be name collisions. (Note that the man
command was originally written by

Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable

BSD code.)

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

say:

make all

su and say:

make install

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

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

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

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

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

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

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

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

ATT notes: for those people unfortunate enough to

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

Found in path(s):

* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/INSTALL

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*

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* I'll try to keep a version up to date. I can be reached as follows:

* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

*/

Found in path(s):

* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/externs.h

* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.h

* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/pathnames.h

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*

* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

*/

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*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/database.c
*
/cron-3-0pl1-orig-tar/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/user.c
```

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```

Found in path(s):

```
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.8
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.1
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.5
```

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```
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# *
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```

```
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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your
changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

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

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* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/README

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1.391 iotop 0.6-42-ga14256a-0.2build1

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```
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```

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```
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.
```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.392 log-rotate 3.21.0-2build1

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```

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1.393 fdisk 2.39.3

1.393.1 Available under license :

```
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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1.394 argon2 0~20190702+dfsg-4build1

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1.395 json-c 0.17-1build1

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1.397 libnsl 1.3.0-3build3

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1.398 popt 1.19+dfsg-1build1

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1.404 x-oauth2 0.22.0

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1.405 py3-setuptools-pyc 70.3.0-r0

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1.406 alpine-keys 2.5-r0

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-keys

pkgver=2.5

pkgrel=0

pkgdesc="Public keys for Alpine Linux packages"

url="https://alpinelinux.org"

we install arch specific keys to /etc so we cannot do arch=noarch

arch="all"

license="MIT"

replaces="alpine-base"

1.407 libpsl5t64 0.21.2-1.1build1

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psl-make-dafsa and lookup_string_in_fixed_set.c.

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1.408 libkeyutils 1.6.3-3build1

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1.410 libbrotli1 1.1.0-2build2

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1.416 x-sys 0.24.0

1.416.1 Available under license :

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1.417 robot-exp-common 0.0.0-

20240627223957-a2a4353f6237

1.417.1 Available under license :

```
/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */
/*
```

* This YANG module has been generated by smidump 0.5.0:
*
* smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {  
  
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";  
    prefix "cisco-image-license-mgmt-mib";  
  
    import ENTITY-MIB {  
        prefix "entity-mib";  
    }  
  
    import SNMP-FRAMEWORK-MIB {  
        prefix "snmp-framework";  
    }  
  
    import ietf-yang-smiv2 {  
        prefix "smiv2";  
    }  
  
    organization  
        "Cisco Systems Inc.";  
  
    contact  
        "Cisco Systems  
        Customer Service  
        Postal: 170 W Tasman Drive  
        San Jose, CA 95134  
        USA  
        Tel: +1 800 553 -NETS  
        E-mail: cs-snmp@cisco.com";  
  
    description  
        "The MIB module for managing the running image level  
        of a Cisco device. Cisco's licensing mechanism provides  
        flexibility to run a device on a chosen image  
        level.  
        This mechanism is referred to as image level licensing.  
        Image level licensing leverages the universal image  
        based licensing solution.  
  
        The image level licensing mechanism works as follows -  
  
        A universal image that contains all levels of software
```

packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {  
  description  
    "Initial version of this MIB module.";  
}
```

```
typedef BootImageLevel {  
  type binary {  
    length "0..255";  
  }  
  description  
    "This textual convention is used to define  
    the image level.  
  
    If the device is running at advipservices  
    image level, then the boot image level will  
    be 'advipservices'.";  
}
```

```
typedef LicenseNameList  
{  
  type binary {  
    length "0..255";  
  }  
  description  
    "This textual convention is used to define  
    the list of license names. If multiple licenses  
    are present then this string will contain all  
    the licenses seperated by the ',' character.  
  
    If the license required to run a device at  
    advipservices image level is advipservices and  
    advsecurity, then the license name list will be  
    'advipservices,advsecurity'.";  
}
```

```
container CISCO-IMAGE-LICENSE-MGMT-MIB {  
  config false;
```

```
  container ciscoImageLicenseMgmtMIBObjects {  
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
```

```
    leaf cilmEULAAccepted {
```

```

type boolean;
description
"This object when set to TRUE means that the user has
accepted the END USER LICENSE AGREEMENT. This object
has to be set to TRUE by the user before using the
objects in the cilmBootImageLevelTable to configure
the license.";
smiv2:defval
>false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
}
}

```

```

container cilmNotifCntl {
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

```

```

leaf cilmImageLevelChangedNotif {
type boolean;
description
"Specify whether or not a notification should be
generated on the detection of change in next boot
image level.

```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

```

reference
"See also RFC3413 for explanation that notifications
are under the ultimate control of the MIB module in
this document.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

```

```

container cilmBootImageLevelTable {
description
"A table that contains the configuration information of
current and next boot image level. This table contains
entries for each software module running in an image
loaded in the device. The software module is identified by
cilmModuleName and the device is identified by
entPhysicalIndex.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

```

```

list cilmBootImageLevelEntry {
  key "entPhysicalIndex cilmModuleName";
  description
    "An entry in the table for each module containing the
    list of objects that define the configuration of next
    boot level. The following information is specified by
    the objects present in the table.

    - Current image level.
    - Configured image level for the next boot.
    - Actual image level for the next boot.
    - License store index for the current license.
    - License index of the current license.
    - License store index for the next boot license.
    - License index of the next boot license.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf cilmModuleName {
    type snmp-framework:SnmpAdminString;
    description
      "This object is used as one of the two indices in
      cilmBootImageLevelTable. This object indicates the module
      name of the software package. There can be multiple
      modules in an image performing specific functionality.
      For example, in a wireless image there can be two modules
      - a base image module and a wireless module.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
  }

  leaf cilmCurrentImageLevel {
    type cisco-image-license-mgmt-mib:BootImageLevel;
    description
      "This object indicates the current image level that
      the module is running.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
  }

  leaf cilmConfiguredBootImageLevel {

```

```
type cisco-image-license-mgmt-mib:BootImageLevel;  
description  
"This object indicates the configured image level  
of the module for the next boot.
```

```
  
Note: The configured next boot image level may not  
be the actual next boot image level. The actual next  
boot image level is denoted by cilmNextBootImageLevel  
which is determined based on the license availability.";   
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";  
}
```

```
leaf cilmNextBootImageLevel {  
  type  
  cisco-image-license-mgmt-mib:BootImageLevel;  
  description  
  "This object indicates the next boot image level. The  
  next boot image level can be different from configured  
  level. The next boot image level is determined based  
  on the availability of required license.";   
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";  
}
```

```
leaf cilmCurrentLicenseStoreIndex {  
  type uint32;  
  description  
  "This object indicates the license store index where the  
  currently used license is stored. This object has the same  
  value as clmgmtLicenseStoreIndex object and uniquely  
  identifies an entry in clmgmtLicenseStoreInfoTable in  
  CISCO-LICENSE-MGMT-MIB.
```

```
  
Note: The license store index can be '0' if no license is  
installed and device is running base image.";   
smiv2:max-access "read-only";
```

```
  
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";  
}
```

```
leaf cilmCurrentLicenseIndex {  
  type uint32;  
  description  
  "This object indicates the license index of the currently used  
  license. This object has the same value as clmgmtLicenseIndex and  
  uniquely identifies an entry in clmgmtLicenseInfoTable in  
  CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}
```

```
leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
```

CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}
```

```
leaf cilmNextBootLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the next boot
    license. This object has the same value as clmgmtLicenseIndex
    and uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
}
```

```
container cilmImageLevelToLicenseMapTable {
  description
    "This table contains the mapping between different
    image levels of each modules in the
    image and the
    license required to run the modules at a particular
    image level. This table can be used to identify the
    different image levels and the appropriate licenses
    required for each.";
```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

list cilmImageLevelToLicenseMapEntry {
  key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
  description
    "An entry in the table containing the following
    information.
    - The image levels at the which the modules can be run.
    - The license required to the run a module at a
    particular image level.
    - The priority of the license.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf cilmModuleName {
    type leafref {

      path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
    }
  }

  leaf cilmImageLicenseMapIndex {
    type uint32;
    description
      "This is a running index used to identify an entry
      of this table.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
  }

  leaf cilmImageLicenseImageLevel {
    type cisco-image-license-mgmt-mib:BootImageLevel;
    description
      "This object indicates the image level at which
      a module can be run. A module can be run at
      different image levels. An entry will be created
      in this table for every module and image level
      combination.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
  }

```

```

}

leaf cilmImageLicenseName {
  type cisco-image-license-mgmt-mib:LicenseNameList;
  description
    "This object indicates the list of licenses needed to
    be installed for the module to run at the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
    "This object indicates the priority of the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry. The image level with the highest priority license
    will be considered as the default level in the absense of
    next boot image level configuration. For example if there
    are three licenses l1, l2 and l3 in the ascending order of

    priority, then by default l1 will be the level at which the
    module will be running. If the next boot level is configured
    then the configuration will override the priority. The highest
    priority license supports a feature set which is a super set of
    all other licenses.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}
}
}
}

```

```

notification cilmBootImageLevelChanged {
  description
    "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmCurrentImageLevel
    and cilmConfiguredBootImageLevel objects respectively.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

  container object-1 {

    leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf cilmModuleName {
    type leafref {
      path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
    }
  }

  leaf cilmCurrentImageLevel {
    type leafref {
      path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf cilmModuleName {
    type leafref {
      path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
    }
  }

  leaf cilmConfiguredBootImageLevel {
    type leafref {
      path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
    }
  }
}

```



```

}

smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
    prefix "cisco-license-mgmt-mib";

```

```
import ENTITY-MIB {  
    prefix "entity-mib";  
}
```

```
import INET-ADDRESS-MIB {  
    prefix "inet-address";  
}
```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import SNMPv2-TC {  
    prefix "snmpv2-tc";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service
```

```
Postal: 170 W Tasman Drive
```

```
San Jose, CA 95134
```

```
USA
```

```
Tel: +1 800 553 -NETS
```

```
E-mail: cs-snmp@cisco.com";
```

```
description  
"The MIB module for managing licenses on the system.
```

The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

```
UDI
```

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided

further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.
Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests

on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2008-11-21 {
description
```



```

    "This version of the MIB adds support for subscription
    licensing. Subscription licenses provide software
    enforcement for a licensed feature for a fixed calendar
    period. The revisions are:
    o Updated clmgmtLicenseType object to support the following three
      new types of licenses:
        paidSubscription
        evaluationSubscription
        extensionSubscription
    o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicenseStartDate
        clmgmtLicenseEndDate
    o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeatureStartDate
        clmgmtFeatureEndDate
    o Added the following notifications
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
    o Added the following conformance groups
        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
  }

```

```

revision 2006-10-03 {
  description
    "Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "A unique value, for each license in the managed system.
    It is not necessary to have values assigned contiguously.
    The value for each license must remain constant
    at least from one re-initialization of the entity's
    network management system to the next re-initialization";
}

```

```

typedef ClmgmtLicenseIndexOrZero {
  type uint32;
  description
    "This textual convention is an extension of the ClmgmtLicenseIndex
    convention.

```

The latter defines a greater than zero value used to identify a license in the managed system. This extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown.";

```
}
```

```
typedef ClmgmtLicenseTransferProtocol {  
  type enumeration {  
    enum "none" {  
      value "1";  
    }  
    enum "local" {  
      value "2";  
    }  
    enum "tftp" {  
      value "3";  
    }  
    enum "ftp" {  
      value "4";  
    }  
    enum "rcp" {  
      value "5";  
    }  
    enum "http" {  
      value "6";  
    }  
    enum "scp" {  
      value "7";  
    }  
    enum "sftp" {  
      value "8";  
    }  
  }  
  description  
  "The transfer protocol that should be used for copying files  
  when performing license management. When  
the protocol is  
  set to local(2), local file system (flash or disk) is used.  
  Different agents may support different transfer protocols  
  and the management application is expected to some how determine  
  which protocol is supported and use.";  
}
```

```
typedef ClmgmtLicenseActionState {  
  type enumeration {
```

```

enum "none" {
    value "1";
}
enum "pending" {
    value "2";
}
enum "inProgress" {
    value "3";
}
enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

none(1)          - action is not yet scheduled to be
                  executed.

pending(2)        - All the required parameters for the
                  action are set and the action is
                  scheduled
to be executed.

inProgress(3)     - action execution has started and is
                  in progress.

successful(4)     - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
                  partially successful. Management
                  application can query additional MIB
                  objects to know what is successful
                  and what has failed. These additional
                  objects are listed in the
                  description of the corresponding
                  action tables.

failed(6)         - action has failed.";
}
typedef ClmgmtLicenseActionFailCause {

```

```

type enumeration {
  enum "none" {
    value "1";
  }
  enum "generalFailure" {
    value "2";
  }
  enum "transferProtocolNotSupported" {
    value
"3";
  }
  enum "fileServerNotReachable" {
    value "4";
  }
  enum "unrecognizedEntPhysicalIndex" {
    value "5";
  }
  enum "invalidLicenseFilePath" {
    value "6";
  }
  enum "invalidLicenseFile" {
    value "7";
  }
  enum "invalidLicenseLine" {
    value "8";
  }
  enum "licenseAlreadyExists" {
    value "9";
  }
  enum "licenseNotValidForDevice" {
    value "10";
  }
  enum "invalidLicenseCount" {
    value "11";
  }
  enum "invalidLicensePeriod" {
    value "12";
  }
  enum "licenseInUse" {
    value "13";
  }
  enum "invalidLicenseStore" {
    value "14";
  }
  enum "licenseStorageFull" {
    value "15";
  }
  enum "invalidPermissionTicketFile" {

```

```

        value "16";
    }
    enum "invalidPermissionTicket" {
        value "17";
    }
    enum "invalidRehostTicketFile" {
        value "18";
    }
    enum "invalidRehostTicket"
{
    value "19";
}
    enum "invalidLicenseBackupFile" {
        value "20";
    }
    enum "licenseClearInProgress" {
        value "21";
    }
    enum "invalidLicenseEULAFile" {
        value "22";
    }
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no
 errors.

generalFailure(2) - General licensing failure.
 This will be used for resource
 unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
 supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
 valid

invalidLicenseFilePath(6) - The license file path is not
 accessible.

invalidLicenseFile(7) - Contents of license file are
 not valid.

invalidLicenseLine(8) - License string in the license

```

        file is not valid.
licenseAlreadyExists(9) - Management application is trying
        to install a license that already
        exists.
licenseNotValidForDevice(10) - This license is not valid for
        the device/entPhysicalIndex
        specified.
invalidLicenseCount(11) - Invalid count for this counted
        license.
invalidLicensePeriod(12) - Validity period is invalid for
        this expiring license.
licenseInUse(13) - License file is in use by a
        feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the
        license storage.
invalidPermissionTicketFile(16) - The permission ticket file
        path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
        contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
        not accessible.
invalidRehostTicket(19) - The rehost ticket file contents

        are not valid.
invalidLicenseBackupFile(20) - License backup store path
        is not accessible.
licenseClearInProgress(21) - When license clear action is
        in progress, license backup
        action is not permitted to
        avoid race conditions. This
        error code is sent back in
        response to a license backup
        action when a license clear
        action is in progress or in
        pending state. Try again in few
        seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.";
}

```

```

container CISCO-LICENSE-MGMT-MIB {
  config false;

```

```

container clmgmtLicenseConfiguration {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

```

```

leaf clmgmtNextFreeLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object contains appropriate value for
    clmgmtLicenseActionIndex that can be used to create
    an entry in clmgmtLicenseActionTable. The management application
    should read this object first and then use this as the
    value for clmgmtLicenseActionIndex to avoid collisions
    when creating entries in clmgmtLicenseActionTable.
    Following this approach does not guarantee collision free
    row creation, but will reduce the probability. The
    collision will happen if two management applications read this
    object at the same time and attempt to create an entry
    with this value at the same time. In this case, the
    management application whose request is processed after the first
    request will get an error and the process of reading this object
    and
    entry creation needs to be repeated.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
}

```

```

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

```

```

leaf clmgmtNextFreeDevCredExportActionIndex {
  type uint32;
  description
    "This object contains appropriate value for
    clmgmtDevCredExportActionIndex that can be used to create
    an entry in clmgmtDevCredExportActionTable. The management
    application should read this object first and then use this
    as the value for clmgmtDevCredExportActionIndex to avoid
    collisions when creating entries in
    clmgmtDevCredExportActionTable. Following this approach does
    not guarantee collision free row creation, but will reduce
    the probability. The collision will happen if two
    management applications read this object at the same time and
    attempt to create an entry
    with this value at the same time.
    In this case, the management application whose request is
    processed after the first request will get an error and the
    process of reading this object and entry creation needs to be
    repeated.";
  smiv2:max-access "read-only";
}

```

```

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
        clmgmtLicenseExpired
        clmgmtLicenseExpiryWarning
        clmgmtLicenseUsageCountExceeded
        clmgmtLicenseUsageCountAboutToExceed
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
        clmgmtLicenseEvalRTUTransitionWarning
        clmgmtLicenseEvalRTUTransition";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
  }

  leaf clmgmtLicenseDeploymentNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to license deployment. This object
      enables/disables sending following notifications:
        clmgmtLicenseInstalled
        clmgmtLicenseCleared
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
  }

  leaf clmgmtLicenseErrorNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to error conditions in enforcing
      licensing. This object enables/disables sending following

```



```

notifications:
    clmgmtLicenseNotEnforced";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

```

container clmgmtLicenseActionTable {
description
"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";
```

```
list clmgmtLicenseActionEntry {
key "clmgmtLicenseActionIndex";
description
"An entry for each action that is being executed or was
executed recently. The management application executes an
action
by creating this entry. This can be done in the following
2 methods
```

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `InProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
 - c. `clmgmtLicenseServerAddress`
 - d. `clmgmtLicenseServerUsername`
 - e. `clmgmtLicenseServerPassword`
 - f. `clmgmtLicenseFile`
 - g. `clmgmtLicenseStore`
 - h. `clmgmtLicenseStopOnFailure`
 - i. `clmgmtLicenseAcceptEULA`
 - j. `clmgmtLicenseAction`

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members within a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

except when clmgmtLicenseAction is set

to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {

type uint32 {

range "1..4294967295";

}

description

"This object uniquely identifies a row in

clmgmtLicenseActionTable. The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex

while creating an entry in this table. If an entry already

exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeLicenseActionIndex again and retry with the new value for this object.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}
```

```
leaf clmgmtLicenseActionEntPhysicalIndex
{
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    where the action is being executed. This object is mainly
    used in devices where one device is acting as a master and
    rest of the devices as slaves. The master device is
    responsible for SNMP communication with the management
    application. Examples include stackable switches, devices
    with route processor and line card configuration. If this
    object is not set, the license action will be executed on
    the master device. Note: This object need not be set if
    there is a stand alone device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}
```

```
leaf clmgmtLicenseActionTransferProtocol {
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
  description
    "This object represents the transfer protocol to be used
    when copying files as specified in the following objects.
    1. clmgmtLicenseFile
    2. clmgmtLicensePermissionTicketFile
    3. clmgmtLicenseRehostTicketFile
    4. clmgmtLicenseBackupFile

    Note: This object need not be set if the all the files
    required for the action are in device's local file system.";
  smiv2:defval "none";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

```
leaf clmgmtLicenseServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
```

address contained in clmgmtLicenseServerAddress object.
 This must be set when clmgmtLicenseActionTransferProtocol
 is not none(1) or local(2).";
 smiv2:defval
 "unknown";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
 }

leaf clmgmtLicenseServerAddress {
 type inet-address:InetAddress;
 description
 "This object indicates the ip address of the server from
 which the files must be read or written to if
 clmgmtLicenseActionTransferProtocol is not none(1) or
 local(2)."

All bits as 0s or 1s for clmgmtLicenseServerAddress are not
 allowed.

The format of this address depends on the value of the
 clmgmtLicenseServerAddressType object";
 smiv2:defval "";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
 }

leaf clmgmtLicenseServerUsername {
 type snmp-framework:SnmpAdminString {
 length "0..96";
 }
 description
 "This object indicates the
 remote user name for accessing
 files via ftp, rcp, sftp or scp protocols. This object must
 be set when the clmgmtLicenseActionTransferProtocol is
 ftp(4), rcp(5), scp(7) or sftp(8). If
 clmgmtLicenseActionTransferProtocol is rcp(5), the remote
 username is sent as the server username in an rcp command
 request sent by the system to a remote rcp server.";
 smiv2:defval "";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
 }

leaf clmgmtLicenseServerPassword {
 type snmp-framework:SnmpAdminString {
 length "0..96";

```

    }
    description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
    or sftp(8). Reading it returns
    a zero-length string for
    security reasons.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

leaf clmgmtLicenseFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

leaf clmgmtLicenseStore {
    type uint32;
    description
    "This object represents the clmgmtLicenseStoreIndex
of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

leaf clmgmtLicenseActionLicenseIndex {
    type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
    description

```

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex object in

```
    clmgmtLicenseInfoEntry for license that is subject of this
    action.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}
```

```
leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}
```

```
leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}
```



```

}

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
    the device need to be backed up. This object need to be set
    only if clmgmtLicenseAction is set to backup(6) and the
    management application must set the value of this object
    to valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
    stop if the action on a license fails. This object is
    applicable only if there are more than one licenses
    involved in an action.";
  smiv2:defval "false";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

leaf clmgmtLicenseAction {
  type enumeration {
    enum "noOp" {
value "1";
    }
    enum "install" {
      value "2";
    }
    enum "clear" {
      value "3";
    }
    enum "processPermissionTicket" {
      value "4";
    }
    enum "regenerateLastRehostTicket" {
      value "5";
    }
  }
}

```

```

enum "backup" {
    value "6";
}
enum "generateEULA" {
    value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.

```

processPermissionTicket(4)
Processes thee permission
                        ticket and generates and
                        exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the
                        last generated rehost
                        ticket.

```

backup(6)	Backs up all the licenses installed currently onto a backup store.
-----------	--

generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file.";
-----------------	--

```

smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
description
"This object indicates the state of this license action.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to
    defer its license back up action to a later time. This
    object will return a value of 0 if the action is not in
    pending(2) state.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

leaf clmgmtLicenseActionStorageType {
  type snmpv2-tc:StorageType;
  description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
  smiv2:defval "volatile";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes
  
```

(clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}
```

```
leaf clmgmtLicenseAcceptEULA {
  type boolean;
  description
    "This object indicates whether the End User License Agreement
    needed for installing the licenses is accepted.

    true(1) - EULA is read and accepted
    false(2) - EULA is not accepted
```

```
    Management application should set this object to true(1) when
    installing licenses that need EULA acceptance.";
  smiv2:defval "false";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}
```

```
leaf clmgmtLicenseEULAFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
}
```

```
container clmgmtLicenseActionResultTable {
```

description

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

list clmgmtLicenseActionResultEntry {

key "clmgmtLicenseActionIndex clmgmtLicenseNumber";

description

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license.

These entries are created immediately after action execution when the action involves multiple licenses.

These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

leaf clmgmtLicenseActionIndex {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-mib:clmgmtLicenseActionIndex";

}

}

leaf clmgmtLicenseNumber {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the sequence number of this license in the list of licenses on which the action is executed.

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";

}

leaf clmgmtLicenseIndivActionState {

type cisco-license-mgmt-mib:ClmgmtLicenseActionState;

```

    description
    "This object indicates the state of action on this
    individual license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
    description
    "This object indicates the reason for action failure on this
    individual license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
    description
    "This table contains information about all the license
    stores allocated on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

    list clmgmtLicenseStoreInfoEntry {
        key "entPhysicalIndex clmgmtLicenseStoreIndex";
        description
        "An entry in clmgmtLicenseStoreInfoTable. Each entry
        contains information about a license store allocated
        on the device";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreIndex {
            type uint32 {
                range "1..4294967295";
            }
            description
            "This object uniquely identifies a license store within
            the device.";
            smiv2:max-access "not-accessible";
            smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
        }
    }
}

```

```

    }

    leaf clmgmtLicenseStoreName {
      type snmp-framework:SnmpAdminString {
        length "0..255";
      }
      description
        "This object indicates the name of the license store
        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt';
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
    }

    leaf clmgmtLicenseStoreTotalSize {
      type uint32;
      units "bytes";
      description
        "This object indicates the total number of bytes that are
        allocated to the license store.";
      smiv2:max-access "read-only";
      smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
    }

    leaf clmgmtLicenseStoreSizeRemaining {
      type uint32;
      units "bytes";
      description
        "This object indicates the number of bytes still remaining
        to be used for new license installations in the license
        store.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
    }
  }
}

container clmgmtLicenseDeviceInfoTable {
  description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist
    only for entities that support licensing. For example,
    if it is a stand alone device and supports licensing,
    then there will be only one entry in this table. If

```

it is stackable switch then there will be multiple entries with one entry for each device in the stack.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

list

clmgmtLicenseDeviceInfoEntry {

key "entPhysicalIndex";

description

"An entry in clmgmtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

leaf clmgmtDefaultLicenseStore {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the clmgmtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";

}

}

}

container clmgmtLicenseInfoTable {

description

"This table contains information about all the licenses installed on the device.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

list clmgmtLicenseInfoEntry {

key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";

description

"An entry in clmgmtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when a license is installed successfully. Management application can not create these entries directly, but

will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf clmgmtLicenseStoreUsed {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}
```

```
leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}
```

```
leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}
```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version
    are: '1.0', '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

```

```

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
  description

```

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.
extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in evaluation mode for a limited time.";

```
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";  
}
```

```
leaf clmgmtLicenseCounted {
```

```
  type boolean;
```

```
  description
```

```
    "This object indicates whether the license is counted
```

```

    license.
    true(1) - counted license
    false(2) - uncounted license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}

leaf clmgmtLicenseValidityPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period the license is valid for.
        This object is applicable only if clmgmtLicenseType is demo(1),
        or extension(2) or gracePeriod(3) or evalRightToUse(8). The
        object will return
0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

leaf clmgmtLicenseValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before the
        license expires or transitions to rightToUse(9) license. This
        object is applicable only if clmgmtLicenseType is demo(1), or
        extension(2) or gracePeriod(3) or evalRightToUse(8). The object
        will contain 0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}

leaf clmgmtLicenseExpiredPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the elapsed time period since the license
        expired. This object is applicable only if clmgmtLicenseType
        is demo(1),
or extension(2) or gracePeriod(3). Also, this
        value of this object will be valid only after the license
        expires. The object will return 0 for other license types
        or before the license expiry.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

leaf clmgmtLicenseStatus {

```

```

type enumeration {
  enum "inactive" {
    value "1";
  }
  enum "notInUse" {
    value "2";
  }
  enum "inUse" {
    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4)
- license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
```

```
}
```

```
leaf clmgmtLicenseStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the start date for a subscription
    license. It is optional for subscription linceses to have a
    start date associated with them, they may only have an end

```

date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),

evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is not applicable.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";

}

leaf clmgmtLicenseEndDate {

type snmpv2-tc:DateAndTime;

description

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is

paidSubscription(5), evaluationSubscription(6) or

extensionSubscription (7). The object will contain an octet

string of length 0 when it is not applicable.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";

}

leaf clmgmtLicensePeriodUsed {

type uint32;

units "seconds";

description

"This

object indicates the time period used for the

Right to use (RTU) licenses. This object is applicable for all

RTU licenses.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";

}

}

}

container clmgmtLicensableFeatureTable {

description

"This table contains list of licensable features in the

image. All the licensable features will have an entry each

in this table irrespective of whether they are using any

licenses currently. Entries in this table are created by

the agent one for each licensable feature in the image.

These entries remain in the table permanently and can not

be deleted. Management application can not create or delete

entries from this table.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```

list clmgmtLicensableFeatureEntry {
  key "entPhysicalIndex clmgmtFeatureIndex";
  description
    "An entry
in clmgmtLicensableFeatureTable. Each entry represents
  a licensable feature.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type uint32 {
      range "1..4294967295";
    }
    description
      "This object uniquely identifies a licensable feature in
      the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
  }

  leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {
      length "0..128";
    }
    description
      "This object indicates the name of the licensable feature
      in the device. Examples of feature names are: 'IPBASE',
      'ADVIPSERVICE'";
    smiv2:max-access
"read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
  }

  leaf clmgmtFeatureVersion {
    type snmp-framework:SnmpAdminString {
      length "0..32";
    }
    description
      "This object indicates the version of the licensable
      feature in the device. Examples of feature versions
      are: '1.0' or '2.0'";
    smiv2:max-access "read-only";
  }

```



```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";  
}
```

```
leaf clmgmtFeatureValidityPeriodRemaining {  
  type uint32;  
  units "seconds";  
  description  
    "This object indicates the time period remaining before  
    the feature's license expires or transitions. This object is  
    applicable only if clmgmtLicenseType of the license used by  
    this feature is demo(1), or extension(2) or gracePeriod(3) or  
    evalRightToUse(8)."
```

```
  The object will contain 0 if  
  other types of license is used  
  or if the feature does not use any license. If the  
  feature is using multiple licenses, this period will  
  represent the cumulative period remaining from all the  
  licenses used by this feature.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";  
}
```

```
leaf clmgmtFeatureWhatIsCounted {  
  type snmp-framework:SnmpAdminString {  
    length "0..128";  
  }  
  description  
    "This object represents the entity that is being counted  
    by this feature. Examples of entities are IP Phones, number  
    of sessions etc. This object is only applicable for  
    features that use counting licenses. For other features,  
    this object will return empty string.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";  
}
```

```
leaf clmgmtFeatureStartDate {
```

```
  type snmpv2-tc:DateAndTime;  
  description  
    "This object indicates the license start date of the feature.  
    This object is applicable if at least one of the licenses used  
    for this feature has a valid start date. The start date will  
    be the earliest of the valid start dates of all the licenses  
    used for this feature. If none of the licenses used for this  
    feature have a valid start date then this object will contain an  
    octet string of length 0.";
```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license end date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid end date. The end date will
        be the latest of the valid end dates
of all the licenses
        used for this feature. If none of the licenses used for this
        feature have a valid end date then this object will contain an
        octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This object indicates the license period used for the feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

container clmgmtDevCredExportActionTable {
    description
        "A table for triggering device credentials export action.
        Management application must create this entry to trigger the
        export of device credentials from the device to a file.

        Once the request completes, the management application should
        retrieve the values of the objects
of interest, and then
        delete the entry. In order to prevent old entries from
        clogging the table, entries will be aged out, but an entry
        will never be deleted within 5 minutes of completion.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

    list clmgmtDevCredExportActionEntry {
        key "clmgmtDevCredExportActionIndex";
        description
            "An entry for each device credential export action that

```

is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgtDevCredExportActionStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If

the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtDevCredExportActionStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtDevCredExportActionStatus` to `destroy(6)` when `clmgtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying

`clmgtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtDevCredCommandFailCause`.

Entry can be deleted except when `clmgtLicenseAction` is set to `inProgress(3)`. All entries in this table are volatile and are cleared on agent reset.";

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";`

```
leaf clmgtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
}
```

description

"This object uniquely identifies a row in `clmgtDevCredExportActionTable`. The management application chooses this value by reading

clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table.

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
```

```
  type entity-mib:PhysicalIndexOrZero;
```

```
  description
```

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device";

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}
```

```
leaf clmgmtDevCredTransferProtocol {
```

```
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
```

```
  description
```

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

.";

```
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}
```

```
leaf clmgmtDevCredServerAddressType {
```

```
  type inet-address:InetAddressType;
```

```
  description
```

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object. This must be set when clmgmtDevCredTransferProtocol

```

    is not none(1) or local(2).";
    smiv2:defval "unknown";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

    The format of this address depends on the value of the
    clmgmtDevCredServerAddressType object";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object
  must be set when the clmgmtDevCredTransferProtocol is
  ftp(4), rcp(5), scp(7) or sftp(8). If
  clmgmtDevCredTransferProtocol is rcp(5), the remote
  username is sent as the server username in an rcp command
  request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.

```

```

This object must be set when the
clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
sftp(8). Reading it returns a zero-length string for
security reasons.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

Command	Remarks

noOp(1)	No operation will be performed.
getDeviceCredentials(2)	Exports device credentials";
smiv2:defval "noOp";	
smiv2:max-access "read-write";	
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";	
}	

```

leaf clmgmtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of the action that is

```

```

    executed as a result of setting clmgmtDevCredRowStatus
    to active(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "unknownError" {
      value "2";
    }
    enum "transferProtocolNotSupported"
  {
    value "3";
  }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidFile" {
      value "6";
    }
  }
  description
    "This object indicates the the reason for device
    credentials export operation failure.

```

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not

```

        valid
        invalidFile(6) - The target file specified is not valid.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
    }

    leaf clmgmtDevCredStorageType {
        type snmpv2-tc:StorageType;
        description
            "This object indicates the storage type for this conceptual
            row. Conceptual rows having the value 'permanent' need not
            allow write-access to any columnar objects in the row.";
        smiv2:defval "volatile";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
    }

    leaf clmgmtDevCredRowStatus {
        type snmpv2-tc:RowStatus;
        description
            "This object indicates the the status of this table entry.
            Once the entry status is set to active(1), the associated
            entry cannot be modified until the action completes
            (clmgmtDevCredCommandStatus is set to a value
            other than inProgress(3)). Once the action completes
            the only operation possible after this is to delete
            the row.

            clmgmtDevCredExportFile is a mandatory object to be
            set when creating this entry.";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
    }
}

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
        management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

    container object-1 {

```



```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

```

```

}
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
        }
    }
}

```

```

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
    {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
        }
    }
}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}

notification clmgmtLicenseUsageCountAboutToExceed
{
  description
  "This notification is sent when clmgmtLicenseUsageCountRemaining
  has reached 80% of clmgmtLicenseMaxUsageCount for a counting
  license. This is a warning notification to the management
  application that very soon the maximum count will be reached
  and after that the device will not allow new entities to
  make use of this license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```



```

    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseUsageCountRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
      }
    }

```

```

  container object-5 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref
    {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }

```

```

    }

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-6 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseInstalled {
    description

```

"This notification is sent when a license is installed

successfully.";

smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

container object-1 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

leaf clmgmtLicenseStoreUsed {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseStoreUsed";

}

}

leaf clmgmtLicenseIndex {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseIndex";

}

}

leaf clmgmtLicenseFeatureName {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseFeatureName";

}

}

}

container object-2 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}

```

```

container object-3 {

```

```

  leaf entPhysicalIndex {
    type
  leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

```

```

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

```

```

    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

container
object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

```

```

notification clmgmtLicenseCleared {
  description
    "This notification is sent when a license is cleared
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```



```

mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseType {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

```

```

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseStoreUsed {

        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseType {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
        }
    }
}

    container object-4 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreUsed {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
            }
        }

        leaf clmgmtLicenseComments {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
            }
        }
    }
}

```

```

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {

      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}
}
}

notification clmgmtLicenseNotEnforced {
    description
        "This notification is sent when a license does not
        exist for a feature, but the feature is a mandatory
        feature and it should run. This notification will be
        sent out periodically
        to indicate that there is no
        license installed for this feature and it needs to
        be done as soon as possible.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```

```

    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

notification clmgmtLicenseSubscriptionExpiryWarning {
    description
    "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following
    schedule:
        Once a week for the last eight weeks
        Once a day for the last week
        Once a hour for the last day";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }
    }
}

```

```

    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

```



```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf
clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

notification clmgmtLicenseSubscriptionExtExpiryWarning {
  description
    "This notification is sent when the subscription license end
    date of a feature is reached but extension period is left. This
    notification will be sent once a day after the license end date
    is reached.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {

            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }
}

```

```

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

```

```

leaf clmgmtFeatureEndDate {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
  }
}
}
}

```

```

notification clmgmtLicenseSubscriptionExpired {
  description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureEndDate {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
    }
  }
}

```

```

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";
}

```

```

container object-1 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

container object-2 {

```

```

  leaf entPhysicalIndex {
    type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
    }
  }
}

```

```

notification clmgmtLicenseEvalRTUTransition {
  description
    "This notification is sent, when a feature license transitions
    from a evaluation to a
    Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
}

```

```

    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

```



```

smiv2:alias "ciscoLicenseMgmtGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}
package license

import (
    "errors"
    alarmUtil "github3.cisco.com/ROBOT/infra-utils/golang/app-skeleton/alarms"

    hiAlarms "github3.cisco.com/ROBOT/pulse/alarms"
    alarmsPb "github3.cisco.com/ROBOT/robot-api/golang/alarms"
    "go.uber.org/atomic"
    "os"
    "sync"
    "time"

    "fmt"

    "github3.cisco.com/ROBOT/infra-utils/golang/messaging"
    "github3.cisco.com/ROBOT/infra-utils/golang/robotnats"
    "github3.cisco.com/ROBOT/pulse/alarms"
    "github3.cisco.com/ROBOT/pulse/config"
    "github3.cisco.com/ROBOT/pulse/log"
    "github3.cisco.com/ROBOT/pulse/util"
    "github3.cisco.com/ROBOT/robot-api/golang/cw_clms"
    "golang.org/x/net/context"
)

// Smart License Constants
const (
    DEFAULT_CLMS_PRODUCT_UUID = "2970976f-2cbc-4dc2-9293-a96074abc91d"
    DEFAULT_CLMS_SOFTWARE_ID = "regid.2019-11.com.cisco.CAHISW,1.0_1bb005c9-b4e7-41c4-bf49-65ff6643a44e"
    DEFAULT_CNC_SOFTWARE_ID = "regid.2022-11.com.cisco.CNC,1.0_6a3c6976-76d7-4604-8be5-ef8d0221612a"
    DEFAULT_CLMS_PRODUCT_ID = "CAHISW"
    DEFAULT_CLMS_PRODUCT_NAME = "Health
    Insights and Change Automation"

    DEFAULT_CLMS_TOPIC = "robot.clms.v_0_1_0.json"
    DEFAULT_CLMS_KAFKA_TOPIC = "robot.clms.reply.v_0_1_0.json"

    DEFAULT_CLMS_ENTITLEMENT_REQ_CTX = "post./v1/request_entitlement"

    DEFAULT_CLMS_ENTITLEMENT_TAG_RTM = "regid.2019-

```

```

11.com.cisco.NTWAUTO_RTM,1.0_9659e789-15e7-4db3-8665-7f06e5f08857"
DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_NAME = "NTWAUTO_RTM"
DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_VER = "1.0"

DEFAULT_CLMS_ENTITLEMENT_TAG_RTU = "regid.2023-01.com.cisco.CNC_CAHI_RTU,1.0_92a3f791-
2a2f-4413-994d-70640accdb7b"
DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_NAME = "CNC_CAHI_RTU"
DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_VER = "1.0"

DEFAULT_CLMS_SEND_INTERVAL = 2 * time.Hour
DEFAULT_CLMS_KFAFKA_CONSUMER_GROUP_PREFIX = "crosswork.hi.clms"
CLMS_LICENSE_STATE = "regid.2019-11.com.cisco.CAHISW,1.0_1bb005c9-b4e7-41c4-bf49-
65ff6643a44e"

DEFAULT_RTU_ENTITLEMENT_STATE = cw_clms.EntitlementStatus_IN_COMPLIANCE
CNC_PRODUCT_ID
    = "CNC"
)

// set of errors returned by this package
var (
    ErrNatsConnNilPointer = errors.New("Nil NATS Connection")
    ErrEmptyResponse     = errors.New("Received Empty response")
    ErrClmsConfigFail    = errors.New("Error reading CLMS configuration")

    //ErrClmsConfigReadFail is raised when package fails to read configuration from conf file
    ErrClmsConfigReadFail = errors.New("error in reading CLMS configuration")

    //ErrClmsEmptyClmsResp is raised when NCA received empty response to call from clms
    ErrClmsEmptyClmsResp = errors.New("received empty response from CLMS")

    //ErrEntitlementRequest is raised when clms receives un acceptable entitlement report from orchestrator
    ErrEntitlementRequest = errors.New("error in entitlement reported")

    //ErrNatsNilPointer is raised when nats connection in use is nil
    ErrNatsNilPointer = errors.New("nATS Connection is nil")

    //ErrDbNilPointer is raised when db connection in use is nil
    ErrDbNilPointer = errors.New("db Connection
is nil")

    //ErrEmptyClientID is raised when client ID received is empty
    ErrEmptyClientID = errors.New("empty client ID received")

    //ErrDbNilPointer is raised when db connection in use is nil
    ErrClmsClientNotCreated = errors.New("CLMS client not created yet")
    unacceptableRTUStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{ }{
        cw_clms.EntitlementStatus_EVALUATION_EXPIRED: { },

```

```

    cw_clms.EntitlementStatus_NOT_AUTHORIZED:  {},
}
rtuAlarmStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{}{
    cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED: {},
}
rtmAlarmStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{}{
    cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED: {},
    cw_clms.EntitlementStatus_EVALUATION_EXPIRED:      {},
}
)

//var expired bool
//var consumerGroup = `hi.clms.`
//var kafka_license_data = make(chan *sarama.ConsumerMessage, 1)

type LicenseClient struct {
    mu
    sync.RWMutex
    Configuration      config.ConfigCLMS
    NatsConn            *robotnats.NatsStreamConn
    ClientID            string
    licenseAuthStatus   cw_clms.SentryLicenseAuthStatus
    rtmLicenseStatus    cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    rtuLicenseStatus    cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    clmsKafkaTopic      string
    consumerGroup       string
    clmsKafkaSubscription robotnats.RobotNatsSubscription
    updateError         *atomic.Bool
    isLabLicensing      *atomic.Bool
}

var clmsCtx *LicenseClient
var localRtmUpdaterMutex sync.RWMutex

// CreateClient method will initialize the client based on passed parameters
func GetClient() (*LicenseClient, error) {
    if clmsCtx != nil {
        return clmsCtx, nil
    } else {
        return nil, ErrClmsClientNotCreated
    }
}

// CreateClient method will initialize the client based on passed parameters
func CreateClient(
    config config.ConfigCLMS,
    natsConn *robotnats.NatsStreamConn,
    appName string,

```

```

)
(*LicenseClient, error) {

var err error
//Already exists so no need to create it again ?
if clmsCtx != nil {
    return clmsCtx, nil
}
if natsConn == nil {
    err = ErrNatsNilPointer
    return nil, err
}

if appName == `` {
    err = ErrEmptyClientID
    return nil, err
}

if config.ClmsSoftwareId == `` {
    config.ClmsSoftwareId = DEFAULT_CLMS_SOFTWARE_ID
}

if config.CncSoftwareID == `` {
    config.CncSoftwareID = DEFAULT_CNC_SOFTWARE_ID
}

if config.ClmsProductId == `` {
    config.ClmsProductId = DEFAULT_CLMS_PRODUCT_ID
}

if config.ClmsProductDisplayName == `` {
    config.ClmsProductDisplayName = DEFAULT_CLMS_PRODUCT_NAME
}

if config.EntitlementRequestContext == `` {
    config.EntitlementRequestContext = DEFAULT_CLMS_ENTITLEMENT_REQ_CTX
}

if config.EntitlementRtmTag == `` {
    config.EntitlementRtmTag = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM
}
if config.EntitlementRtmName == `` {
    config.EntitlementRtmName = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_NAME
}
if config.EntitlementRtmVersion
== `` {
    config.EntitlementRtmVersion = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_VER
}

```

```

if config.EntitlementRtuTag == `` {
    config.EntitlementRtuTag = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU
}
if config.EntitlementRtuName == `` {
    config.EntitlementRtuName = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_NAME
}
if config.EntitlementRtuVersion == `` {
    config.EntitlementRtuVersion = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_VER
}
instanceId, err := util.GetInstanceID()
if err != nil {
    log.Errorf(log.Fields{"error": err}, "error in getting instance id.")
}
clmsConsumerGroup := fmt.Sprintf("%v_%v", DEFAULT_CLMS_KAFKA_CONSUMER_GROUP_PREFIX,
instanceId)

client := LicenseClient{
    Configuration:  config,
    NatsConn:      natsConn,
    ClientID:      appName,
    licenseAuthStatus: cw_clms.SentryLicenseAuthStatus_UN_IDENTIFIED,
    clmsKafkaTopic:  DEFAULT_CLMS_KAFKA_TOPIC,
    consumerGroup:   clmsConsumerGroup,
    updateError:     atomic.NewBool(false),
    isLabLicensing:  atomic.NewBool(false),
}
//Save
a reference in the module for reference later
clmsCtx = &client
return &client, err
}

//func (licenseClient *LicenseClient) HandleMessage(msg *sarama.ConsumerMessage) {
// licenseClient.kafkaLicenseData <- msg
//}

func handleCNCLicenseNotif(ctx context.Context,
notification *cw_clms.SentryLicenseState) {
if notification != nil {
if clmsCtx == nil {
log.Errorf("CLMS client is not created.Not processing clms license state change notification.")
return
} else {
clmsCtx.setRTUStatus(cw_clms.EntitlementStatus_IN_COMPLIANCE)
clmsCtx.setRTMStatus(cw_clms.EntitlementStatus_IN_COMPLIANCE)
}
} else {

```

```

log.Errorf(log.Fields{"notification": notification}, "received empty notification from CLMS")
}
}

// Handle CLMS License State notification
func handleCLMSLicenseStateChange(ctx context.Context, notification *cw_clms.SentryLicenseState) {
log.Infof(log.Fields{"notification": notification}, "CLMS: handle license state change")
if notification != nil {
if
clmsCtx == nil {
log.Error("CLMS client is not created.Not processing clms license state change notification.")
return
} else if notification.RegistrationStatus == cw_clms.SentryLicenseState_REGISTERED {
entitlementCount := 0
for _, entitlement := range notification.GetEntitlements() {
if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtuTag {
clmsCtx.setRTUStatus(entitlement.GetStatus())
entitlementCount++
} else if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtmTag {
clmsCtx.setRTMStatus(entitlement.GetStatus())
entitlementCount++
}
}
if entitlementCount == 2 {
break
}
}
clmsCtx.updateLabLicenseState()
} else {
//fetching the license state from clms upon receiving the update since we are not sure if
// CNC is enabled or individual app ( CAHISW ) is enabled
UpdateLicenseState()
}

reconcileRTUAndRTM()
handleAlarmOnLicenseState()
} else {
log.Errorf(log.Fields{"notification":
notification}, "received empty notification from CLMS")
alarms.WarningSystemEvent(
true,
alarms.InfoLicenseMgr,
"LicenseMgr", alarms.ObjDscLicenseMgr,
"Received empty notification from CLMS",
)
}
}

func (client *LicenseClient) StartClmsStateConsumer() (sub robotnats.RobotNatsSubscription, err error) {

```

```

var kafka_topic string
var subscription robotnats.RobotNatsSubscription

natsC := client.NatsConn
offsetCfg := *natsC.KafkaCfg.ConsumerCfg
instId := util.GetManagerInstID()

// topic will be from
if client.clmsKafkaTopic == "" {
    kafka_topic = DEFAULT_CLMS_KAFKA_TOPIC
} else {
    kafka_topic = client.clmsKafkaTopic
}

var KAFKA_CLMS_HANDLERS []messaging.MessageContextIdHandler =
[]messaging.MessageContextIdHandler{
    {
        Type:      messaging.MESSAGE_CONTEXTID_HANDLER_TYPE_SUBSCRIBE,
        ContextIDPrefix: client.Configuration.ClmsSoftwareId,
        GetArgumentContainer: func() interface{} { {
            return &cw_clms.SentryLicenseState{ }
        } },
        Handle: handleCLMSLicenseStateChange,
    },
    //
    ROBOT-23784 CNC license 7.0
    {
        Type:      messaging.MESSAGE_CONTEXTID_HANDLER_TYPE_SUBSCRIBE,
        ContextIDPrefix: client.Configuration.CncSoftwareID,
        GetArgumentContainer: func() interface{} { {
            return &cw_clms.SentryLicenseState{ }
        } },
        Handle: handleCNCLicenseNotif,
    },
}

instanceId, err := util.GetInstanceID()
if err != nil {
    log.Errorf(log.Fields{ "error": err }, "error in getting instance id.")
}
clmsConsumerGroup := fmt.Sprintf("%v_%v", DEFAULT_CLMS_KFAFKA_CONSUMER_GROUP_PREFIX,
instanceId)

subscription, err = natsC.Serve(instId,
kafka_topic,
clmsConsumerGroup,
KAFKA_CLMS_HANDLERS,
robotnats.RobotNatsServeWithKafkaConsumerConfig(&offsetCfg))

```

```

if err != nil {
    client.clmsKafkaSubscription = subscription
}
return subscription, err
}

func (client *LicenseClient) RequestRTM(count uint32, softwareId string) (err error) {

    natC := client.NatsConn
    log.Infofmt(log.Fields{"RTM": count, "softwareId": softwareId}, "Starting
    Entitlement RTM update to CLMS")

    params := client.Configuration

    if err != nil {
        log.Errorfmt(log.Fields{"error: ": ErrClmsConfigFail}, "CLMS Entitlement RTM update failed")
        return err
    }

    request := &cw_clms.SentryEntitlement{ }
    request.SoftwareIdTag = softwareId
    request.EntitlementTag = params.EntitlementRtmTag
    request.Version = params.EntitlementRtmVersion
    request.Count = count

    clientID := util.GetManagerInstID()
    clmsTopic := params.ClmsTopic
    context := params.EntitlementRequestContext

    retries := 3
    for i := 0; i < retries; i++ {

        response := &cw_clms.SentryNatsReply{ } //nolint:all

        err = natC.RequestSync(
            clientID,
            clmsTopic,
            context,
            request,
            response,
            20*1000*time.Millisecond,
        )
        if err != nil {
            log.Errorfmt(log.Fields{"error: ": err},
                "CLMS send entitlement HI RTM update Failed - NATS error")
            continue
        }
    }
}

```



```

if response == nil { //nolint:all
    log.Errorfmt(log.Fields{"error: ": ErrEmptyResponse},
        "CLMS Entitlement HI
RTM update failed retrying...")
    continue
}

//capture license status and topic info in response
if response.GetResult() == cw_clms.Result_ERROR || response.GetResult() == cw_clms.Result_REJECTED {
    log.Errorfmt(log.Fields{"error": err},
        "CLMS send entitlement HI RTM update Failed CLMS: result not accepted")
    err = errors.New(response.GetMessage())
} else {

    if response.GetLicenseStatus() == cw_clms.SentryLicenseAuthStatus_UN_CONFIGURED {
        err = errors.New("Error: license state unexpected")
        continue
    }
    clmsCtx.setRTMStatus(cw_clms.EntitlementStatus_SentryEntitlementEnforceMode(response.GetEntitlementStatus
    ()))
}
break
}

if err != nil {
    log.Errorfmt(log.Fields{"Error": err},
        fmt.Sprintf("Failed to update entitlement HI RTM to CLMS after %d retries", retries))
    alarms.MajorSystemEvent(
        false,
        alarms.InfoLicenseMgr,
        "LicenseMgr", alarms.ObjDscLicenseMgr,
        fmt.Sprintf("Failed to update entitlement HI RTM to CLMS after %d retries", retries),
    )
    client.updateError.Store(true)
}
else if client.updateError.Load() {
    log.Info("update entitlement HI RTM to CLMS successful")
    client.updateError.Store(false)
}

return err
}

func (client *LicenseClient) RequestRTU(count uint32, softwareId string) (err error) {

    natC := client.NatsConn
    log.Infofmt(log.Fields{"RTU": count, "SoftwareId": softwareId}, "Starting Entitlement RTU update to CLMS")

```

```

params := client.Configuration

request := &cw_clms.SentryEntitlement{ }
request.SoftwareIdTag = softwareId
request.EntitlementTag = params.EntitlementRtuTag
request.Version = params.EntitlementRtuVersion
request.Count = count

clientID := util.GetManagerInstID()
clmsTopic := params.ClmsTopic
context := params.EntitlementRequestContext

retries := 3
for i := 0; i < retries; i++ {

    response := &cw_clms.SentryNatsReply{ } //nolint:all

    err = natC.RequestSync(
        clientID,
        clmsTopic,
        context,
        request,
        response,
        20*1000*time.Millisecond,
    )
    if err
    != nil {
        log.ErrorFmt(log.Fields{ "error: ": err }, "CLMS send entitlement HI RTU update Failed - NATS error")
        continue
    }

    if response == nil { //nolint:all
        log.ErrorFmt(log.Fields{ "error: ": ErrEmptyResponse },
            "CLMS Entitlement HI RTU update failed retrying...")
        continue
    }

    //capture license status and topic info in response
    if response.GetResult() == cw_clms.Result_ERROR || response.GetResult() == cw_clms.Result_REJECTED {
        log.ErrorFmt(log.Fields{ "error": err },
            "CLMS send entitlement HI RTU update Failed CLMS: result not accepted")
        err = errors.New(response.GetMessage())
    } else {
        if response.GetLicenseStatus() == cw_clms.SentryLicenseAuthStatus_UN_CONFIGURED {
            err = errors.New("Error: license state unexpected")
            continue
        }
    }
}

```

```

    break
}

if err != nil {
    log.ErrorFmt(log.Fields{"Error": err},
        fmt.Sprintf("Failed to update entitlement HI RTU to CLMS after %d retries", retries))
    alarms.MajorSystemEvent(
        false,
        alarms.InfoLicenseMgr,
        "LicenseMgr",
        alarms.ObjDscLicenseMgr,
        fmt.Sprintf("Failed to update entitlement HI RTU to CLMS after %d retries", retries),
    )
    client.updateError.Store(true)
} else if client.updateError.Load() {
    log.Info("update entitlement HI RTU to CLMS successful")
    client.updateError.Store(false)
}

return err
}

// Check RTM and RTU entitlement states and returns over all license state .
func IsLicenseExpired() (expired bool, licenseAuthStatus string) {
    rtuExpired := false
    var licenseStatus string
    if clmsCtx != nil {
        if _, ok := unacceptableRTUStatuses[clmsCtx.getRTUStatus()]; ok {
            rtuExpired = true
            licenseStatus = clmsCtx.getRTUStatus().String()
        }
    } else {
        log.InfoFmt(log.Fields{"CLMS Client": nil},
            "CLMS: Client not setup assuming licnese expired")
    }
    if rtuExpired {
        log.InfoFmt(log.Fields{"rtmLicenseStatus": clmsCtx.getRTMStatus(),
            "rtuLicenseStatus": clmsCtx.getRTUStatus()}, "In License check")
        // If lab licensing is enabled, any state should
        be compliant
        return !clmsCtx.isLabLicensing.Load(), licenseStatus
    }
    return false, licenseStatus
}

// Gets the RTM and RTU entitlement status from CLMS and updates inmemory variables
func UpdateLicenseState() {
    //fetching the license state with product id as CAHISW

```

```

//if CNC is enabled, then CLMS will return CNC info, otherwise CAHI info
//Irrespective of that we can set the state
response, err := getLicenseState()
if err != nil || response == nil {
    return
}
entitlementCount := 0
productId := response.ProductId
for _, entitlement := range response.GetEntitlements() {
    if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtuTag {
        // ROBOT-23784 CNC license
        // RTU applicable only for CNC
        if productId == CNC_PRODUCT_ID {
            clmsCtx.setRTUStatus(entitlement.GetStatus())
        }
        clmsCtx.setRTUStatus(entitlement.GetStatus())
        entitlementCount++
    } else if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtmTag {
        clmsCtx.setRTMStatus(entitlement.GetStatus())
        entitlementCount++
    }
}
if entitlementCount == 2 {
    break
}
}
clmsCtx.updateLabLicenseState()
}

// Calls CLMS get License status API and fetches the RTU and RTM entitlement status.
func getLicenseState() (*cw_clms.LicenseStatusResponse, error) {
    natsC := clmsCtx.NatsConn
    if natsC == nil {
        log.Error("NATs connection null, unable to fetch license state from CLMS")
        return nil, errors.New("no nats connection, unable to fetch license state from clms")
    }
    params := clmsCtx.Configuration
    request := &cw_clms.ProductID{ }
    request.ProductId = params.ClmsProductId

    response := &cw_clms.LicenseStatusResponse{ } //nolint:all
    clientID := util.GetManagerInstID()
    retries := 3
    var err error
    for i := 0; i < retries; i++ {
        err = natsC.RequestSync(
            clientID,
            params.ClmsTopic,

```

```

    "get./v1/license-status",
    request,
    response,
    30*1000*time.Millisecond,
)

if err != nil {
    log.Errorf(log.Fields{"error": err}, "Error occurred during get license status
call to CLMS")
    continue
}
if response == nil { //nolint:all
    log.Errorf(log.Fields{"error": ErrEmptyResponse}, "Get license state call to CLMS failed. Retrying.")
    continue
}
if response.GetResult() == cw_clms.Result_ACCEPTED {
    log.Infof(log.Fields{"response": response, "message": response.GetMessage()},
        "Successfully fetched license state from CLMS")
    return response, nil
}
return nil, fmt.Errorf(fmt.Sprintf("Error response received from CLMS during for get license call after %d retries",
retries))
}
if err != nil {
    return nil, fmt.Errorf(fmt.Sprintf("Failed to get license state from CLMS after %d retries", retries))
}

return nil, fmt.Errorf(fmt.Sprintf("Failed to get response from CLMS for get license state after %d retries", retries))
}

// Calls CLMS get lab-License status API and fetch whether user using lab licensing or not.
func getLabLicensingState() (bool, error) {
    natC := clmsCtx.NatsConn
    if natC == nil {
        log.Error("NATs connection
null, unable to fetch lab-license state from CLMS")
        return false, errors.New("no nats connection, unable to fetch license state from clms")
    }
    params := clmsCtx.Configuration
    request := &cw_clms.ProductID{ }
    request.ProductId = params.ClmsProductId

    response := &cw_clms.IsLabEnabledResponse{ } //nolint:all
    clientID := util.GetManagerInstID()
    retries := 3
    var err error
    for i := 0; i < retries; i++ {
        err = natC.RequestSync(

```

```

clientID,
params.ClmsTopic,
"get./v1/lab-licensing",
request,
response,
30*1000*time.Millisecond,
)

if err != nil {
    log.Errorf(log.Fields{"error": err}, "Error occurred during get lab-licensing status call to CLMS")
    continue
}
if response == nil { //nolint:all
    log.Errorf(log.Fields{"error": ": ErrEmptyResponse"},
        "Get lab-licensing state call to CLMS failed. Retrying.")
    continue
}
if response.GetResult() == cw_clms.Result_ACCEPTED {
    log.Infof(log.Fields{
        "response": response,
    }, "Successfully
    fetched lab-license state from CLMS")

    return response.GetStatus(), nil
}
return false, fmt.Errorf(
    fmt.Sprintf("Error response received from CLMS during for get lab-license call after %d retries", retries))
}
if err != nil {
    return false, fmt.Errorf(
        fmt.Sprintf("Failed to get lab-license state from CLMS after %d retries", retries))
    }
return false, fmt.Errorf(
    fmt.Sprintf("Failed to get response from CLMS for get lab-license state after %d retries", retries))
}
func (client *LicenseClient) setRTUStatus(rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode) {
    client.mu.Lock()
    log.Debugf(log.Fields{"RTU Entitlement status:": rtuStatus}, "Updating RTU entitlement status")
    client.rtuLicenseStatus = rtuStatus
    client.mu.Unlock()
}
func (client *LicenseClient) setRTMStatus(rtmStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode)
{
    client.mu.Lock()
    log.Debugf(log.Fields{"RTM Entitlement status:": rtmStatus}, "Updating RTU entitlement status")
    client.rtmLicenseStatus
    = rtmStatus
    client.mu.Unlock()
}

```

```

}
func (client *LicenseClient) getRTUStatus() cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
    client.mu.RLock()
    defer client.mu.RUnlock()
    return client.rtuLicenseStatus
}
func (client *LicenseClient) getRTMStatus() cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
    client.mu.RLock()
    defer client.mu.RUnlock()
    return client.rtmLicenseStatus
}

// In case of RTU license expired ,fetches lab licensing state from CLMS and update inmemory variable.
func (client *LicenseClient) updateLabLicenseState() {
    var rtuExpired bool
    if _, ok := unacceptableRTUStatuses[clmsCtx.getRTUStatus()]; ok {
        rtuExpired = true
    }
    if rtuExpired {
        isLabLicensing, err := getLabLicensingState()
        if err == nil {
            clmsCtx.isLabLicensing.Store(isLabLicensing)
        }
    }
}

func (client *LicenseClient) updateRtmCounter() {
    var rtm_count uint32
    var err error
    // retry loop for 3 times, 10 seconds apart
    for i := 1; i <= 3; i++ {
        rtm_count,
        err = util.GetDistinctDeviceUsage()
        if err == nil {
            break
        }
        time.Sleep(time.Duration(i) * 10 * time.Second)
    }
    if err != nil {
        log.Errorf(log.Fields{"error": err}, "Failed to get distinct device usage count for RTM")
        return
    }
    /* CSCwn56583 - Removal of Component-based licensing 7.1
    err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.ClmsSoftwareId)
    if err != nil {
        log.Errorf(log.Fields{"error": err},
            "Send CLMS entitlement RTM failed for CAHI license.")
    } else {

```

```

    log.Infofmt(log.Fields{"rtm_count": rtm_count, "SoftwareId": clmsCtx.Configuration.ClmsSoftwareId}, "rtm count
sent to CLMS")
}
*/
// ROBOT-23784 CNC Smart license
err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.CncSoftwareID)
if err != nil {
    log.Errorfmt(log.Fields{"error": err},
        "Send CLMS entitlement RTM failed for CNC license.")
} else {
    log.Infofmt(log.Fields{"rtm_count": rtm_count, "SoftwareId": clmsCtx.Configuration.CncSoftwareID}, "rtm count
sent to CLMS")
}

}

func
(client *LicenseClient) StartPeriodicSync(ctx context.Context) {
    // send the rtm count to clms at the start up
    client.updateRtmCounter()
    // add a 2 hour timer to sync the license state or done by the user

    ticker := time.NewTicker(DEFAULT_CLMS_SEND_INTERVAL)
    defer ticker.Stop()
    for {
        select {
        case <-ticker.C:
            client.updateRtmCounter()

        case <-ctx.Done():
            return
        }
    }

    // Raise alarms in case either of RTU and RTM are in invalid state.
    func handleAlarmOnLicenseState() {
        var err error
        if clmsCtx != nil {
            instanceID := os.Getenv("HOSTNAME")
            if instanceID == "" {
                instanceID = "HI"
            }
            if _, ok := rtuAlarmStatuses[clmsCtx.getRTUStatus()]; ok {
                _err := alarmUtil.Alarms.RaiseEvent(
                    true, alarmsPb.Category_System, alarmsPb.Severity_Critical,
                    hiAlarms.ErrLicenseMgr.Value(),
                    "ErrLicenseMgr", hiAlarms.HIAlarmStartup.Value(),

```



```

    "RTU entitlement state",
    util.APPNAME, instanceID, "Invalid RTU entitlement state:"+clmsCtx.getRTUStatus().String(),
)
if
_err != nil {
    log.Errorfmt(log.Fields{"err": err, "send_error": _err}, "failed to send alarms event")
}
} else {
    alarmUtil.Alarms.Clear(
        alarmsPb.Category_System, hiAlarms.ErrLicenseMgr.Value(),
        "ErrLicenseMgr", hiAlarms.HIAIAlarmStartup.Value(),
        "RTU entitlement state",
        util.APPNAME, instanceID, "Valid RTU entitlement state:"+clmsCtx.getRTUStatus().String(),
    )
}
if _, ok := rtmAlarmStatuses[clmsCtx.getRTMStatus()]; ok {
    _err := alarmUtil.Alarms.RaiseEvent(
        true, alarmsPb.Category_System, alarmsPb.Severity_Critical,
        hiAlarms.ErrLicenseMgr.Value(),
        "ErrLicenseMgr", hiAlarms.HIAIAlarmStartup.Value(),
        "RTM entitlement state",
        util.APPNAME, instanceID, "Invalid RTM entitlement state:"+clmsCtx.getRTMStatus().String(),
    )
    if _err != nil {
        log.Errorfmt(log.Fields{"err": err, "send_error": _err}, "failed to send alarms event")
    }
} else {
    alarmUtil.Alarms.Clear(
        alarmsPb.Category_System, hiAlarms.ErrLicenseMgr.Value(),
        "ErrLicenseMgr",
        hiAlarms.HIAIAlarmStartup.Value(),
        "RTM entitlement state",
        util.APPNAME, instanceID, "Valid RTM entitlement state:"+clmsCtx.getRTMStatus().String(),
    )
}
}
}

```

// Reconciliation of RTU and RTM count in case of CLMS went down and came up.

```

func reconcileRTUAndRTM() {
    reportRTMCountToClms()
    if clmsCtx != nil {
        // ROBOT-23784 Smart CNC license
        err := clmsCtx.RequestRTU(1, clmsCtx.Configuration.CncSoftwareID)
        if err != nil {
            log.Errorfmt(log.Fields{"err": err}, "failed to send RTU count to CLMS.")
        }
    }
}
// CSCwn56583 - Removal of Component-based licensing 7.1

```

```

/*
err = clmsCtx.RequestRTU(1, clmsCtx.Configuration.ClmsSoftwareId)
if err != nil {
    log.Errorfmt(log.Fields{"err": err}, "failed to send RTU count to CLMS.")
}
*/
}
}

// Sends RTM count to CLMS.
func reportRTMCountToClms() {
    var rtm_count uint32
    rtm_count, err := util.GetDistinctDeviceUsage()
    if err != nil {
        log.Errorfmt(log.Fields{"error":
err},
        "report RTM count to Clms failed to read RTM")
        return
    }
    if clmsCtx != nil {
        // CSCwn56583 - Removal of Component-based licensing 7.1
        /*
        err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.ClmsSoftwareId)
        if err != nil {
            log.Errorfmt(log.Fields{"error": err},
                "Send CLMS entitlement RTM failed for CAHI license.")
        } */
        // ROBOT-23784 CNC Smart license
        err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.CncSoftwareID)
        if err != nil {
            log.Errorfmt(log.Fields{"error": err},
                "Send CLMS entitlement RTM failed for CNC license.")
        }
        log.Debugfmt(log.Fields{"rtm_count": rtm_count}, "Send CLMS entitlements RTM, Success")
    } else {
        log.Error("report RTM count to Clms failed since clms client not ready")
    }
}

package license

import (
    "errors"
    "github.com/IBM/sarama"
    "github.com/agiledragon/gomonkey/v2"
    "github.com/dlintw/goconf"
    "github3.cisco.com/ROBOT/infra-utils/golang/kafka"
    "github3.cisco.com/ROBOT/infra-utils/golang/messaging"
    "github3.cisco.com/ROBOT/infra-utils/golang/robotnats"

```

```

"github3.cisco.com/ROBOT/pulse/config"
"github3.cisco.com/ROBOT/pulse/log"
"github3.cisco.com/ROBOT/pulse/util"
"github3.cisco.com/ROBOT/robot-api/golang/cw_clms"
"golang.org/x/net/context"
"os"
"reflect"
"testing"
"time"
)

var testNatsConn *robotnats.NatsStreamConn
var cfg config.ConfigCLMS

func initTest() {
    dir := os.Getenv("PULSE_TEST_DATA")
    c, err := goconf.ReadConfigFile(dir + "/pulse_local.conf")
    if err != nil {
        log.Error("error in config read.")
    }

    //Client connection
    testNatsConn, err = robotnats.NewNatsStreamConn("pulsetest", c, "nats_stream")
    if err != nil {
        log.Error("NATS streaming connection failed, error is: ", err)
    }
    retryCount := 0
    for !testNatsConn.IsConnected()
    && retryCount < 10 {
        log.Info(log.Fields{
            "connection_status": testNatsConn.IsConnected(),
        }, "Waiting for Nats Connection to be up, Retrying in 2 sec")
        <-time.After(2 * time.Second)
        retryCount++
    }
    if !testNatsConn.IsConnected() {
        log.Error("Nats Streaming connection failed")
    }
    os.Setenv("HOSTNAME", "ut")
    cfg, _ = config.ConfCLMS()
}

func TestCreateClient(t *testing.T) {
    initTest()
    type args struct {
        config config.ConfigCLMS
        natsConn *robotnats.NatsStreamConn
        appName string
    }

```

```

tests := []struct {
    name    string
    args    args
    want    *LicenseClient
    wantErr bool
}{
    {"TestCreateClient-negative-1", args{cfg, nil, "pulse"}, nil, true},
    {"TestCreateClient-negative-2", args{cfg, testNatsConn, ""}, nil, true},
    {"TestCreateClient-positive", args{cfg, testNatsConn, "pulse"}, &LicenseClient{}, false},
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        _, err := CreateClient(tt.args.config, tt.args.natsConn, tt.args.appName)
        if
        (err != nil) != tt.wantErr {
            t.Errorf("CreateClient() error = %v, wantErr %v", err, tt.wantErr)
            return
        }

    })
}

```

```

func TestGetClient(t *testing.T) {
    initTest()
    tests := []struct {
        name    string
        want    *LicenseClient
        wantErr bool
    }{
        {"TestGetClient-positive", &LicenseClient{}, false},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")
            got, err := GetClient()
            t.Log(got, "neeraj")
            if (err != nil) != tt.wantErr {
                t.Errorf("GetClient() error = %v, wantErr %v", err, tt.wantErr)
                return
            }

        })
    }
}

```

```

func TestIsLicenseExpired(t *testing.T) {
    initTest()

```

```

tests := []struct {
    name          string
    wantExpired    bool
    wantLicenseAuthStatus string
}{
    {"TestIsLicenseExpired-positive", false, ""},
    {"TestIsLicenseExpired-negative", true, "EVALUATION_EXPIRED"},
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        CreateClient(cfg, testNatsConn, "appName")
        patch1
        := gomock.NewPatches()
        patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient, _ string)
        cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
            if tt.name == "TestIsLicenseExpired-negative" {
                return cw_clms.EntitlementStatus_EVALUATION_EXPIRED
            }
            return cw_clms.EntitlementStatus_EVALUATION

        })
        defer patch1.Reset()
        gotExpired, got := IsLicenseExpired()
        if gotExpired != tt.wantExpired || got != tt.wantLicenseAuthStatus {
            t.Errorf("IsLicenseExpired() gotExpired = %v, want %v", gotExpired, tt.wantExpired)
            t.Errorf("IsLicenseExpired() got = %v, want %v", got, tt.wantLicenseAuthStatus)
        }
    })
}

func TestLicenseClient_StartPeriodicSync(t *testing.T) {
    initTest()
    ctxvar := context.Background()

    tests := []struct {
        name string
        ctx context.Context
    }{
        {"TestLicenseClient_StartPeriodicSync-positive", ctxvar},
    }

    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            client,
            _ := CreateClient(cfg, testNatsConn, "appName")
            patch1 := gomock.NewPatches()
            patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateRtmCounter", func(_ *LicenseClient) {
                return
            })
        })
    }
}

```

```

    })
    defer patch1.Reset()
    go func() {
        patch2 := gomock.NewPatches()
        patch2.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateRtmCounter", func(_ *LicenseClient) {
            return
        })
        defer patch2.Reset()
        client.StartPeriodicSync(ctxvar)
    }()
    time.Sleep(2 * time.Second)
    ctxvar.Done()
    time.Sleep(2 * time.Second)
    })
}
}

```

```

func TestLicenseClient_updateRtmCounter(t *testing.T) {
    initTest()

    tests := []struct {
        name string
    }{
        {"TestLicenseClient_updateRtmCounter-positive"},
        {"TestLicenseClient_updateRtmCounter-negative"},
        {"TestLicenseClient_updateRtmCounter-negative-2"},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            patch1 := gomock.NewPatches()
            patch1.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM", func(_ *LicenseClient,
            count uint32, softwareId string) error {
                if tt.name == "TestLicenseClient_updateRtmCounter-negative" {
                    return errors.New("error")
                }
            })
            return nil

        })
        defer patch1.Reset()

        patch2 := gomock.NewPatches()
        patch2.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
            if tt.name == "TestLicenseClient_updateRtmCounter-negative-2" {
                return 0, errors.New("error")
            }
        })
        return 0, nil
    }
}

```

```

    })
    defer patch2.Reset()

    client, _ := CreateClient(cfg, testNatsConn, "appName")
    client.updateRtmCounter()
    })
}
}

func Test_reportRTMCountToClms(t *testing.T) {
    initTest()
    tests := []struct {
        name string
    }{
        {"Test_reportRTMCountToClms-positive"},
        {"Test_reportRTMCountToClms-negative"},
        {"Test_reportRTMCountToClms-negative-2"},
        {"Test_reportRTMCountToClms-negative-3"},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            patch1 := gomock.NewPatches()
            patch1.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM",
            func(_ *LicenseClient, count uint32, softwareId string) error {
                if tt.name == "Test_reportRTMCountToClms-negative" {
                    return errors.New("error")
                }
                return nil
            })
            defer patch1.Reset()

            patch2 := gomock.NewPatches()
            patch2.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
                if tt.name == "Test_reportRTMCountToClms-negative-2" {
                    return 0, errors.New("error")
                }
                return 0, nil
            })
            defer patch2.Reset()

            CreateClient(cfg, testNatsConn, "appName")
            if tt.name == "Test_reportRTMCountToClms-negative-3" {
                clmsCtx = nil
            }
            reportRTMCountToClms()
        })
    }
}

```

```

    })
  }
}

func Test_reconcileRTUAndRTM(t *testing.T) {
  initTest()
  tests := []struct {
    name string
  }{
    {"Test_reconcileRTUAndRTM-positive"},
    {"Test_reconcileRTUAndRTM-negative"},
    {"Test_reconcileRTUAndRTM-negative-2"},
    {"Test_reconcileRTUAndRTM-negative-3"},
  }
  for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
      patch1 := gomock.NewPatches()
      patch1.ApplyMethod(reflect.TypeOf(clmsCtx),
        "RequestRTM", func(_ *LicenseClient, count uint32, softwareId string) error {
          if tt.name == "Test_reconcileRTUAndRTM-negative" {
            return errors.New("error")
          }
        })
      return nil

    })
    defer patch1.Reset()

    patch2 := gomock.NewPatches()
    patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
string) error {
      if tt.name == "Test_reconcileRTUAndRTM-negative" {
        return errors.New("error")
      }
    })
    return nil

  })
  defer patch2.Reset()

  patch3 := gomock.NewPatches()
  patch3.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
    if tt.name == "Test_reconcileRTUAndRTM-negative-2" {
      return 0, errors.New("error")
    }
  })
  return 0, nil

})
defer patch3.Reset()

```



```

CreateClient(cfg, testNatsConn, "appName")
if tt.name == "Test_reconcileRTUAndRTM-negative-3" {
    clmsCtx = nil
}
reconcileRTUAndRTM()
})
}
}

func Test_handleAlarmOnLicenseState(t
*testing.T) {
initTest()
tests := []struct {
    name string
}{
    {"Test_handleAlarmOnLicenseState-positive"},
    {"Test_handleAlarmOnLicenseState-negative"},
    {"Test_handleAlarmOnLicenseState-negative-2"},
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        CreateClient(cfg, testNatsConn, "appName")
        patch1 := gomock.NewPatches()
        patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient)
cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
            if tt.name == "Test_handleAlarmOnLicenseState-negative" {
                return cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED
            }
            return 0

        })
        defer patch1.Reset()

        patch2 := gomock.NewPatches()
        patch2.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTMStatus", func(_ *LicenseClient)
cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
            if tt.name == "Test_handleAlarmOnLicenseState-negative-2" {
                return cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED
            }
            return
0

        })
        defer patch2.Reset()

        handleAlarmOnLicenseState()
    })
}

```

```

}

func TestLicenseClient_updateLabLicenseState(t *testing.T) {
    initTest()

    tests := []struct {
        name string
    }{
        {"Test_updateLabLicenseState-positive"},
        {"Test_updateLabLicenseState-negative"},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            patch1 := gomock.NewPatches()
            patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient, _ string)
            cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
                if tt.name == "Test_updateLabLicenseState-negative" {
                    return cw_clms.EntitlementStatus_EVALUATION_EXPIRED
                }
                return cw_clms.EntitlementStatus_EVALUATION

            })
            defer patch1.Reset()
            CreateClient(cfg, testNatsConn, "appName")
            clmsCtx.updateLabLicenseState()
        })
    }
}

func TestLicenseClient_getterSetter(t *testing.T) {
    initTest()

    type args struct {
        rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
        rtmStatus
        cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    }
    type want struct {
        rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
        rtmStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    }
    tests := []struct {
        name string
        args args
        want want
    }{
        {"Test_getterSetter-positive", args{1, 1}, want{1, 1}},
    }
}

```

```

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        CreateClient(cfg, testNatsConn, "appName")
        clmsCtx.setRTMStatus(tt.args.rtmStatus)
        clmsCtx.setRTUStatus(tt.args.rtuStatus)
        if got := clmsCtx.getRTMStatus(); got != tt.want.rtmStatus {
            t.Errorf("getRTMStatus() = %v, want %v", got, tt.want.rtmStatus)
        }
        if got := clmsCtx.getRTUStatus(); got != tt.want.rtuStatus {
            t.Errorf("getRTUStatus() = %v, want %v", got, tt.want.rtuStatus)
        }
    })
}

func Test_handleCLMSLicenseStateChange(t *testing.T) {
    initTest()
    ctx := context.Background()
    type args struct {
        notification *cw_clms.SentryLicenseState
    }
    tests := []struct {
        name string
        args args
    }{
        {"Test_handleCLMSLicenseStateChange-positive", args{&cw_clms.SentryLicenseState{RegistrationStatus:
cw_clms.SentryLicenseState_REGISTERED,
    Entitlements: []*cw_clms.EntitlementStatus{&cw_clms.EntitlementStatus{Tag: "1"},
&cw_clms.EntitlementStatus{Tag: "2"}}}},
        {"Test_handleCLMSLicenseStateChange-positive-2", args{&cw_clms.SentryLicenseState{RegistrationStatus:
cw_clms.SentryLicenseState_UN_REGISTERED}}},
        {"Test_handleCLMSLicenseStateChange-negative", args{nil}},
        {"Test_handleCLMSLicenseStateChange-negative-2", args{&cw_clms.SentryLicenseState{}}},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")
            patch1 := gomock.NewPatches()
            patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateLabLicenseState", func(_ *LicenseClient) {
                return
            })
            defer patch1.Reset()

            patch0 := gomock.NewPatches()
            patch0.ApplyMethod(reflect.TypeOf(clmsCtx),
                "RequestRTM", func(_ *LicenseClient, count uint32, softwareId string) error {

```

```

    return nil

}))
defer patch0.Reset()

patch2 := gomock.NewPatches()
patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
string) error {

    return nil

}))
defer patch2.Reset()

patch3 := gomock.NewPatches()
patch3.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
    return 0, nil

}))
defer patch3.Reset()

if tt.name == "Test_handleCLMSLicenseStateChange-negative-2" {
    clmsCtx = nil
}
handleCLMSLicenseStateChange(ctx, tt.args.notification)
})
}
}

func Test_getLabLicensingState(t *testing.T) {
    initTest()
    tests := []struct {
        name    string
        want    bool
        wantErr bool
    }{
        {"Test_getLabLicensingState-positive", true, true},
        {"Test_getLabLicensingState-negative", false, true},
        {"Test_getLabLicensingState-negative-2", false, true},
    }
    for _, tt := range tests {
        t.Run(tt.name,
            func(t *testing.T) {
                patches := gomock.ApplyMethod(testNatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _ string, _
string, _ string, _ interface{}, _ interface{}, _ time.Duration) error {
                    if tt.name == "Test_getLabLicensingState-negative" {
                        return errors.New("error")
                    }
                })
            })
    }
}

```

```

    return nil

}))
defer patches.Reset()

CreateClient(cfg, testNatsConn, "appName")
if tt.name == "Test_getLabLicensingState-negative-2" {
    testNatsConn = nil
}
got, err := getLabLicensingState()
if (err != nil) != tt.wantErr {
    t.Errorf("getLabLicensingState() error = %v, wantErr %v", err, tt.wantErr)
    return
}
if got != tt.want {
    t.Errorf("getLabLicensingState() got = %v, want %v", got, tt.want)
}
})
}
}

func Test_getLicenseState(t *testing.T) {
    initTest()
    tests := []struct {
        name    string
        want    *cw_clms.LicenseStatusResponse
        wantErr bool
    }{
        {"Test_getLicenseState-positive", nil, true},
        {"Test_getLicenseState-negative", nil,
        true},
        {"Test_getLicenseState-negative-2", nil, true},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            patches := gomock.ApplyMethod(testNatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _ string, _
            string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
                if tt.name == "Test_getLabLicensingState-negative" {
                    return errors.New("error")
                }
            })
            return nil

        })
        defer patches.Reset()

        CreateClient(cfg, testNatsConn, "appName")
        if tt.name == "Test_getLicenseState-negative-2" {
            testNatsConn = nil

```

```

    }
    got, err := getLicenseState()
    if (err != nil) != tt.wantErr {
        t.Errorf("getLicenseState() error = %v, wantErr %v", err, tt.wantErr)
        return
    }
    if !reflect.DeepEqual(got, tt.want) {
        t.Errorf("getLicenseState() got = %v, want %v", got, tt.want)
    }
})
}
}

func TestUpdateLicenseState(t *testing.T) {
    initTest()
    tests := []struct {
        name string
    }{
        {"Test_getLabLicensingState-positive"},
        {"Test_getLabLicensingState-negative"},
    }
    for
    _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")
            patches2 := gomock.ApplyFunc(getLicenseState, func() (*cw_clms.LicenseStatusResponse, error) {
                if tt.name == "Test_getLabLicensingState-negative" {
                    return nil, errors.New("error")
                }
                return &cw_clms.LicenseStatusResponse{Entitlements:
[*cw_clms.EntitlementStatus{&cw_clms.EntitlementStatus{Tag: "1"}, &cw_clms.EntitlementStatus{Tag: "2"}}},
nil

            })
            defer patches2.Reset()
            UpdateLicenseState()
        })
    }
}

func TestLicenseClient_StartClmsStateConsumer(t *testing.T) {
    initTest()
    tests := []struct {
        name string
        wantSub robotnats.RobotNatsSubscription
        wantErr bool
    }{
        {"Test_getLabLicensingState-positive", nil, false},
    }

```

```

    {"Test_getLabLicensingState-negative", nil, true},
}
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        CreateClient(cfg, testNatsConn, "appName")
        clmsCtx.NatsConn.KafkaCfg
    = &kafka.RobotKafka{ConsumerCfg: &sarama.Config{}}
        patch1 := gomock.ApplyMethod(reflect.TypeOf(testNatsConn), "Serve", func(_ *robotnats.NatsStreamConn,
        _string,
        _ string, _ []messaging.MessageContextIdHandler) (robotnats.RobotNatsSubscription, error) {
            if tt.name == "Test_getLabLicensingState-negative" {
                return nil, errors.New("error")
            }
            return &robotnats.RobotNatsSubscriptionContainer{ }, nil
        })

        defer patch1.Reset()
        gotSub, err := clmsCtx.StartClmsStateConsumer()
        if (err != nil) != tt.wantErr {
            t.Errorf("StartClmsStateConsumer() error = %v, wantErr %v", err, tt.wantErr)
            return
        }
        if !reflect.DeepEqual(gotSub, tt.wantSub) {
            t.Errorf("StartClmsStateConsumer() gotSub = %v, want %v", gotSub, tt.wantSub)
        }
    })
}
}

func TestLicenseClient_RequestRTM(t *testing.T) {
    initTest()
    type args struct {
        count    uint32
        softwareId string
    }
    tests := []struct {
        name    string
        args    args
        wantErr bool
    }{
        {"TestLicenseClient_RequestRTU-positive",
        args{count: 1, softwareId: "1"}, true},
        {"TestLicenseClient_RequestRTU-negative", args{count: 1, softwareId: "1"}, true},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")

```

```

    patches := gomock.ApplyMethod(clmsCtx.NatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _
string, _ string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
    if tt.name == "TestLicenseClient_RequestRTU-positive" {
        return nil
    }
    return errors.New("error")

})
defer patches.Reset()
if err := clmsCtx.RequestRTM(tt.args.count, tt.args.softwareId); (err != nil) != tt.wantErr {
    t.Errorf("RequestRTM() error = %v, wantErr %v", err, tt.wantErr)
}
})
}
}

```

```

func TestLicenseClient_RequestRTU(t *testing.T) {
    initTest()
    type args struct {
        count    uint32
        softwareId string
    }
    tests := []struct {
        name string

        args    args
        wantErr bool
    }{
        {"TestLicenseClient_RequestRTU-positive",
args{count: 1, softwareId: "1"}, false},
        {"TestLicenseClient_RequestRTU-negative", args{count: 1, softwareId: "1"}, true},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")
            patches := gomock.ApplyMethod(clmsCtx.NatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _
string, _ string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
                if tt.name == "TestLicenseClient_RequestRTU-positive" {
                    return nil
                }
                return errors.New("error")

            })
            defer patches.Reset()
            if err := clmsCtx.RequestRTU(tt.args.count, tt.args.softwareId); (err != nil) != tt.wantErr {
                t.Errorf("RequestRTU() error = %v, wantErr %v", err, tt.wantErr)
            }
        })
    }
}

```



```

}
}

func Test_handleCNCLicenseNotif(t *testing.T) {
    initTest()
    type args struct {
        ctx      context.Context
        notification *cw_clms.SentryLicenseState
    }
    tests := []struct {
        name string
        args args
    }{
        {"Test_handleCNCLicenseNotif-positive",
        args{ctx: context.Background(), notification: &cw_clms.SentryLicenseState{LicenseStatus: 1}}},
        {"Test_handleCNCLicenseNotif-Negative-1", args{ctx: context.Background(), notification: nil}},
        {"Test_handleCNCLicenseNotif-Negative-2", args{ctx: context.Background(), notification:
        &cw_clms.SentryLicenseState{LicenseStatus: 1}}},
    }
    for _, tt := range tests {
        t.Run(tt.name, func(t *testing.T) {
            CreateClient(cfg, testNatsConn, "appName")
            if tt.name == "Test_handleCNCLicenseNotif-Negative-2" {
                clmsCtx = nil
            }
            patch0 := gomock.NewPatches()
            patch0.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM", func(_ *LicenseClient, count uint32, softwareId
            string) error {
                return nil
            })
            defer patch0.Reset()

            patch2 := gomock.NewPatches()
            patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
            string) error {
                return nil
            })
            defer patch2.Reset()
            handleCNCLicenseNotif(tt.args.ctx,
            tt.args.notification)
        })
    }
}

```

1.418 zlib 1.3.dfsg-3.1ubuntu2.1

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```
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```
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1.423 lib-pq 1.10.9

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```
//go:build go1.10
// +build go1.10
```

```
package pq
```

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

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
```

```

// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

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

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

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

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and

```

```

setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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1.424 cpuid 2.2.5

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1.425 reflectwalk 1.0.2

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1.426 mitchellh-copystructure 1.2.0

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1.427 golang-protobuf-extensions 1.0.1

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1.428 golang-snappy 0.0.4

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1.429 go-cache 2.1.0+incompatible

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1.430 go-msgpack 0.5.5

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1.431 kr-text 0.2.0

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1.432 cyrus-sasl 2.1.28+dfsg1-5ubuntu3.1

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1.433 libsassl 2.1.28+dfsg1-5ubuntu3.1

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1.434 libsaslmodulesdb 2.1.28+dfsg1- 5ubuntu3.1

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
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*/

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*/

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1.435 urllib3 1.26.20

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1.436 python-certifi 2024.08.30

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1.438 libnettle6 3.9.1-2.2build1.1

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1.443 dpkg 1.22.6ubuntu6.1

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This is the Debian prepackaged version of the Debian Base System Miscellaneous files. These files were written by Ian Murdock <imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

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1.447 e2fsprogs 1.47.0-2.4~exp1ubuntu4.1

1.447.1 Available under license :

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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2001 Alcove <<http://www.alcove.com/>>

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Files: lib/ext2fs/*

lib/e2p/*

lib/support/print_fs_flags.c

misc/e2fuzz.c

Copyright:

1995-1999, 2002, 2004-2006 Theodore Ts'o <tytso@mit.edu>

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2001 Daniel Phillips

2002 Theodore Ts'o.

2002 Andreas Dilger

2006 Cluster File Systems, Inc.

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2015 Jan Kara

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Files: lib/ext2fs/crc32c*

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August 26, 2011 Darrick J. Wong <djwong at us.ibm.com>

Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

.

July 20, 2011 Bob Pearson <rpearson at systemfabricworks.com>

...

Oct 15, 2000 Matt Domsch <Matt_Domsch@dell.com>

...

Oct 12, 2000 Matt Domsch <Matt_Domsch@dell.com>

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Files: CleanSpec.mk
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debugfs/do_journal.c
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Gadi Oxman, August 1995

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Theodore Ts'o
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

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

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

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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1.448 gnutls 3.8.3-1.1ubuntu3.2

1.448.1 Available under license :

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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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

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

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LICENSING

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Version 3, 29 June 2007

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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.

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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

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1.458 openssl 3.0.13-0ubuntu3.4

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1.461 libcom-err 1.47.0-2.4~exp1ubuntu4.1

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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)

*/

/*

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

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debugfs/do_journal.c

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Theodore Ts'o
23-June-2007

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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1.462 liblzma 5.6.1+really5.4.5-1build0.1

1.462.1 Available under license :

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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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```
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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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 3, 29 June 2007

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The

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

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=====

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1.463 libss 1.47.0-2.4~exp1ubuntu4.1

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

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July 20, 2011 Bob Pearson <rpearson at systemfabricworks.com>

...

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```
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```

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```
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```

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Theodore Ts'o
23-June-2007

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```

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

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

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

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

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~'$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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1.464 zlib1g 1.3.dfsg-3.1ubuntu2.1

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

1.465 libgnutls30t64 3.8.3-1.1ubuntu3.2

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```
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1.466 logsave 1.47.0-2.4~exp1ubuntu4.1

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

.

July 20, 2011 Bob Pearson <rpearson at systemfabricworks.com>

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debugfs/do_journal.c

debugfs/journal.*

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Theodore Ts'o
23-June-2007

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

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That's all there is to it!

#

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

libraries.

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;' /\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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1.467 libhogweed6t64 3.9.1-2.2build1.1

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1.469 libext2fs2t64 1.47.0-2.4~exp1ubuntu4.1

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

.

July 20, 2011 Bob Pearson <rpearson at systemfabricworks.com>

...

Oct 15, 2000 Matt Domsch <Matt_Domsch@dell.com>

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Files: e2fsck/*

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debugfs/logdump.c

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misc/fuse2fs.c

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```
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

#

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

libraries.

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;' /\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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1.470 paramiko 3.5.0

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1.471 zlib 1.3.1-r2

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1.472 python-setuptools 68.1.2-2ubuntu1.1

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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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
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releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
setuputils.distutils --very-verbose
```

Please avoid changing it manually.

You can report issues or suggest changes directly to ``validate-pyproject``
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- - ``__init__.py``
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``fastjsonschema``
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`validate-pyproject`

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.474 easyjson 0.7.7

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1.475 go-jmespath 0.4.0

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1.476 libffi 3.4.6-1build1

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1.477 platformdirs 4.2.2

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1.478 xz 5.6.3-r0

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1.479 bash 5.2.37-r0

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1.480 libpsl 0.21.5-r3

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1.481 pax-utils 1.3.8-r1

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Any

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1.489 utmps 0.1.2.3-r2

1.489.1 Available under license :

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1.490 cpp 14.2.0-4ubuntu2~24.04

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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)
<ftp://sourceware.org/pub/newlib/> (for newlib)
<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-14 source package is taken from the git gcc-14-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation

Ada			
	gnat-14	libgnat-14	gnat-14-doc
C	gcc-14		gcc-14-doc
C++	g++-14	libstdc++6	libstdc++6-14-doc

D	gdc-14		
Fortran 95	gfortran-14	libgfortran5	gfortran-14-doc
Go	gccgo-14	libgo0	
Objective C	gobjc-14	libobjc4	
Objective C++	gobjc++-14		
Modula-2	gm2-14	libgm2	
Rust	gccrs-14		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent

C++		libstdc++6-14-dbg	libstdc++6-14-pic	
D	libphobos-14-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

GCC intrinsics (platform-dependent)

gcc-14-base	Base files common to all compilers
gcc-14-soft-float	Software floating point (ARM only)
gcc-14-source	The sources with patches

Ada:

libgnat-util14-dev, libgnat-util14 GNAT version library

C:

cpp-14, cpp-14-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code,

Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64

packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-14 Ada support library and libgnat-util14 library.
- Various config files in gcc/config/ used in runtime libraries.
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Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

Contributions by Ulrich Drepper <drepper@gnu.ai.mit.edu>

Conversion to long double by Jakub Jelinek <jj@ultra.linux.cz>

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit __float128 are

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libquadmath/math/

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c, sinq_kernel.c, truncq.c:

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Written by J.T. Conklin <jtc@netbsd.org>.

Change for long double by Jakub Jelinek <jj@ultra.linux.cz>

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Cephes Math Library Release 2.2:

January, 1991

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acoshq.c, acosq.c, asinhq.c, asinq.c, atan2q.c, atanhq.c, ceilq.c,
copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
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logbq.c, modfq.c, nearbyintq.c, nextafterq.c, powq.c, remainderq.c,
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D:

gdc-14	GNU D Compiler
libphobos-14-dev	D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Phobos standard runtime library:

- libphobos/*

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Written by Walter Bright

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gcc/m2/gm2-libiberty:

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gcc/m2/mc-boot-ch/:

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libgm2/liblog/:

libgm2/libcor/:

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newlib-X.Y.Z/:

Upstream

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 3, 29 June 2007

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1.494 python-pip 24.3.1

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
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2.1.1	2.1+2.0.1	2001	PSF	yes
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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1.497 gcc-14-base 14.2.0-4ubuntu2~24.04

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

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1.501 @grafana-plugins/input-datasource

10.3.10

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A

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1.502 otel-exporters-zipkin 1.28.0

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1.503 @grafana-plugins/parca 10.3.10

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1.504 ory-fosite 0.47.0

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on:

pull_request:

push:

branches:

- main
- master

jobs:

check:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2
- uses: actions/setup-go@v2
- with:
 - go-version: "1.21"
- uses: actions/setup-node@v2
- with:
 - node-version: "18"
- run: make licenses

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Version 2.0, January 2004

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1.505 ory-x 0.0.649

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on:

pull_request:

push:

branches:

- main
- master

jobs:

check:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2
- uses: actions/setup-go@v2

with:

go-version: "1.22"

- uses: actions/setup-node@v2

with:

node-version: "18"

- run: make licenses

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package configx

```
import (  
    "os"  
    "os/user"  
    "strconv"  
)
```

```
type UnixPermission struct {  
    Owner string  
    Group string  
    Mode  os.FileMode  
}
```

```
func (p *UnixPermission) SetPermission(file string) error {  
    var e error  
    e = os.Chmod(file, p.Mode)  
    if e != nil {  
        return e  
    }  
}
```

```
gid := -1  
uid := -1
```

```
if p.Owner != "" {  
    var userObj *user.User  
    userObj, e = user.Lookup(p.Owner)  
    if e != nil {  
        return e  
    }  
    uid, e = strconv.Atoi(userObj.Uid)  
    if e != nil {  
        return e  
    }  
}  
if p.Group != "" {  
    var group *user.Group  
    group, e := user.LookupGroup(p.Group)  
    if e != nil {  
        return e  
    }  
}
```

```

}
gid, e = strconv.Atoi(group.Gid)
if e != nil {
    return e
}
}

```

```

e = os.Chown(file, uid, gid)
if e != nil {
    return e
}
return nil
}

```

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1.506 klauspost-compress 1.17.9

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Klaus Post <klauspost@gmail.com>
Marc-Antoine Ruel <maruel@chromium.org>
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1.508 expat 2.6.4-r0

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1.509 pycparser 2.22

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pycparser -- A C parser in Python

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$
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1.513 wheel 0.42.0-2

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1.514 python3-wheel 0.42.0-2

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1.515 python-pkg-resources 68.1.2-2ubuntu1.1

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1.516 audit 3.1.2-2.1build1.1

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1.519 libaudit 3.1.2-2.1build1.1

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1.523 libucontext 1.3.2-r0

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1.524 acl 2.3.2-1build1.1

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1.527 shadow 4.16.0-r1

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pkgname=bsd-compat-headers

pkgver=0.7.2

pkgrel=6

pkgdesc="BSD compatibility headers (cdefs, queue, tree)"

url="https://gitlab.alpinelinux.org/alpine/aports"

arch="noarch"

license="BSD-2-Clause AND BSD-3-Clause"

source="

cdefs.h

queue.h

tree.h

"

builddir="\$srcdir"

options="!check" # just headers

package() {

mkdir -p "\$pkgdir"

install -Dm644 -t "\$pkgdir"/usr/include/sys \

cdefs.h queue.h tree.h

}

```

sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

# Automatically generated by apkbuidl-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuidl-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85

```

```

BSD-Resource-1.2911.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"          # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
    flake8-copyright-0.2.4.tar.gz
"
# License

```

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```

# Contributor: Dhruvin Gandhi <contact@dhruvin>
# Maintainer: Patrycja Rosa <alpine@ptrcnll.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/_pkgname/_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$pkgname-$pkgver"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
    license_expression-30.4.0.tar.gz
"

# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"

```

```

install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
"
options="!check" # no tests

build() {
    # some GNU autoconf options are ignored, but it works
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
        --sysconfdir=/etc \
        --mandir=/usr/share/man \
        --scoredir=/usr/share/$pkgname
    make
}

package() {
    make DESTDIR="$pkgdir" install
    install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
    bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"

# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

```

```

for type in $_types; do
    subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname=$pkgver-r$pkgrel"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in "$builddir"/text/*.txt;
    do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"

mini_sendmail - accept email on behalf of real sendmail

```

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1.528 py3-packaging 24.2-r0

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1.529 py3-pip 24.3.1-r0

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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 <https://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.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.532 py3-parsing 3.1.4-r0

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1.534 nspr 4.36-r0

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1.535 bridgeutils 1.37.0-r8

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of
Vice
```

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1.536 curl 8.5.0-2ubuntu10.6

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1.537 libcurl4t64 8.5.0-2ubuntu10.6

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1.538 libncursesw 6.5_p20241006-r3

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```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -----
#
# Ncurses 6.5 is at
#  https://invisible-island.net/archives/ncurses/
#  https://invisible-mirror.net/archives/ncurses/
#  https://ftp.gnu.org/gnu/ncurses/
#
# Patches for ncurses 6.5 can be found at
#  https://invisible-island.net/archives/ncurses/6.5
#  https://invisible-mirror.net/archives/ncurses/6.5
#
# -----
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created Sun Oct 6 23:44:01 UTC 2024
# -----
# NEWS | 6 +++
# VERSION | 2 -
# c++/cursesf.cc | 6 +-
# c++/cursesf.h
# | 6 +-
# c++/cursesm.cc | 6 +-
# c++/cursesm.h | 6 +-
# c++/cursesp.cc | 6 +-
# c++/cursespad.cc | 6 +-
# c++/cursslk.cc | 12 +++----
# c++/cursslk.h | 6 +-
# dist.mk | 4 +-
# misc/terminfo.src | 23 ++++++++---
# ncurses/base/lib_screen.c | 4 +-
# ncurses/base/new_pair.c | 4 +-

```

```

# ncurses/curses.priv.h      | 4 +-
# ncurses/new_pair.h         | 4 +-
# ncurses/tinfo/trim_sgr0.c  | 7 +++-
# ncurses/tty/lib_twait.c    | 6 +--
# package/debian-mingw/changelog | 4 +-
# package/debian-mingw64/changelog | 4 +-
# package/debian/changelog    | 4 +-
# package/mingw-ncurses.nsi   | 4 +-
# package/mingw-ncurses.spec  | 2 -
# package/ncurses.spec        | 2 -
# package/ncursetest.spec     |
2 -
# test/blue.c                | 10 +++--
# test/bs.c                   | 8 +++-
# test/cardfile.c             | 12 +++--
# test/chgat.c                | 6 +--
# test/clip_printw.c          | 8 +++-
# test/color_name.h           | 6 +--
# test/demo_defkey.c           | 4 +-
# test/demo_forms.c           | 22 ++++++-----
# test/demo_menus.c           | 32 ++++++++-----
# test/demo_new_pair.c        | 4 +-
# test/demo_panels.c          | 16 ++++-----
# test/demo_termcap.c         | 18 ++++++-----
# test/demo_terminfo.c        | 18 ++++++-----
# test/dots.c                  | 6 +--
# test/dots_mvcur.c           | 6 +--
# test/dots_termcap.c         | 8 +++-
# test/dup_field.c            | 14 ++++-----
# test/filter.c               | 6 +--
# test/form_driver_w.c        | 6 +--
# test/gdc.c                   | 10 +++--
# test/inch_wide.c            | 6 +--
# test/inchs.c                 | 6 +--
# test/ins_wide.c             | 6 +--
# test/insdelln.c             | 8 +++-
# test/inserts.c              | 6 +--
# test/knight.c                | 7 +++-
# test/list_keys.c            | 8 +++-
# test/move_field.c           | 18 ++++++-----
# test/movewindow.c           | 16 ++++-----
# test/ncurses.c              | 61 ++++++-----
# test/padview.c              | 12 +++--
# test/parse_rgb.h            | 6 +--
# test/picsmap.c              | 14 ++++-----
# test/popup_msg.c            | 8 +++-
# test/popup_msg.h            | 6 +--

```

```

# test/railroad.c      |  6 +--
# test/rain.c          | 20 ++++++-----
# test/redraw.c        |  6 +--
# test/savescreen.c    | 14 +++++---
# test/tclock.c        |  4 +-
# test/test.priv.h
    | 10 +++++
# test/test_add_wchstr.c |  6 +--
# test/test_addchstr.c  |  6 +--
# test/test_addstr.c    |  6 +--
# test/test_addwstr.c   |  6 +--
# test/test_endwin.c    |  6 +--
# test/test_get_wstr.c  |  8 +--
# test/test_getstr.c    |  8 +--
# test/test_instr.c     |  8 +--
# test/test_inwstr.c    |  8 +--
# test/test_mouse.c     |  4 +-
# test/test_opaque.c    |  8 +--
# test/test_sgr.c       | 26 ++++++-----
# test/test_tparm.c     | 12 +++++---
# test/test_vidputs.c   |  6 +--
# test/testcurs.c       |  8 +--
# test/testscanw.c      |  6 +--
# test/view.c          | 21 ++++++-----
# 83 files changed, 392 insertions(+), 369 deletions(-)
# -----
Index: NEWS
Prereq:
 1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
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-----
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+++ $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
-----

```

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@

Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

```

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+

```

20240928

+ improve error-message from infocmp when a terminal entry cannot be
opened (patch by Branden Robinson).

Index:

VERSION

--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000

+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000

@ @ -1 +1 @ @

-5:0:10 6.5 20240928

+5:0:10 6.5 20241006

Index: c++/cursesf.cc

Prereq: 1.26

--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000

+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000

@ @ -1,6 +1,6 @ @

// * this is for making emacs happy: -*-Mode: C++;-*-

/*****

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@ @ -36,7 +36,7 @ @

#include "cursesf.h"

#include "cursesapp.h"

-MODULE_ID("\$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp \$")

+MODULE_ID("\$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp \$")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)

{

@ @ -76,7 +76,7 @ @

void NCursesForm::setDefaultAttributes()

{

- NCursesApplication* S = NCursesApplication::getApplication();

+ const NCursesApplication* S = NCursesApplication::getApplication();

int n = count();

if (n > 0) {

Index: c++/cursesf.h

Prereq: 1.39

--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000

+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000

@ @ -1,7 +1,7 @ @

// * This makes emacs happy -*-Mode: C++;-*-

// vile:cppmode

/*****

```

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Foundation, Inc. *
*
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -33,7 +33,7 @@
* Author: Juergen Pfeifer, 1997 *
*****/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
}

inline void *get_user() {
- UserHook* uptr = reinterpret_cast<UserHook*> (::form_userptr (form));
+ const UserHook* uptr = reinterpret_cast<UserHook*> (::form_userptr (form));
assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
return uptr->m_user;
}
Index: c++/cursesm.cc
Prereq: 1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****
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*
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@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void

```

```

NCursesMenu::setDefaultAttributes()
{
- NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq: 1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/*****
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@@ -32,7 +32,7 @@
* Author: Juergen Pfeifer, 1997 *
*****/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
}

inline void *get_user() {
- UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+ const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
  assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
  return uptr->m_user;
}
Index: c++/cursesp.cc
Prereq: 1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****
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```



```

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*
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "curses.h"

-MODULE_ID("$Id: curses.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: curses.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
- PANEL *pan;
+ const PANEL *pan;

    pan = ::panel_above(NULL);
    while (pan) {
Index: c++/cursespad.cc
Prereq: 1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****

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*
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@@ -36,7 +36,7 @@

#include <curses.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
: NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
    (void) pad_req;

```

```

- NCursesWindow* W = Win();
+ const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
- Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+ Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-   NCursesApplication* A = NCursesApplication::getApplication();
+   const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
- Soft_Label_Key& K = (*this)[i];
+ const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
    Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@

void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-   NCursesApplication* A = NCursesApplication::getApplication();
+   const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-   Soft_Label_Key& K = (*this)[i];

```

```

+   const Soft_Label_Key& K = (*this)[i];
    if (ERR==:slk_set(K.num,bf?K.label:"",K.format))
        Error("slk_set");
    }
Index: c++/cursslk.h
Prereq: 1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/*****
- * Copyright 1919-2020,2021 Thomas E. Dickey
    *
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+ *
+ * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -33,7 +33,7 @@
+ * Author: Juergen Pfeifer, 1997          *
+ *****/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

public:
    // Set the text of the Label
-   Soft_Label_Key& operator=(char *text);
+   Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq: 1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written      #
# authorization.                                                    #
#####
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.

```

```

#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
+0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference. It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
# such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention. It refers to the "ANSI" standard and
+# https://wez.furlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago). A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since. Actually that
+# was the second revision; the fifth revision in 1991 is current. The source
+#
# code refers to the second revision in a half-dozen places. Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:

```

```

# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
    use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
    use=ecma+index, use=ecma+italics, use=ecma+strikeout,
    use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
    use=xterm+alt+title,
    use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
    use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
    use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
##### SHANTIH! SHANTIH! SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq: 1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
    * Replace a window covering the whole screen, i.e., newscr or curscr.
    */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
    WINDOW *target, FILE *source)
{
    WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS

```

Index: ncurses/base/new_pair.c

Prereq: 1.24

```
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@
```

#endif

```
-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")
```

#if NCURSES_EXT_COLORS

```
@@ -193,7 +193,7 @@
```

* pair table.

*/

NCURSES_EXPORT(void)

-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)

+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)

```
{
    colorpair_t *last;
```

Index: ncurses/curses.priv.h

Prereq: 1.691

```
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
```

*****/

/*

- * \$Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp \$

+ * \$Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp \$

*

* curses.priv.h

*

```
@@ -2170,7 +2170,7 @@
```

extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);

extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);

extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);

-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));

+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *

EVENTLIST_2nd(_nc_eventlist *));

extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);

extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);

extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);

Index: ncurses/new_pair.h

Prereq: 1.14

```
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
```

```

+++
ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void) _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void) _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void) _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void) _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void) _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq: 1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
    && PRESENT(set_attributes)) {
- bool found = FALSE;
    char *on = set_attribute_9(tp, 1);
    char *off = set_attribute_9(tp, 0);
    char *end = strdup(exit_attribute_mode);
    char *tmp;
- size_t i, j, k;

    TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
    TR(TRACE_DATABASE, ("sgr0    %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@

```

```

    FreeIfNeeded(off);
} else if (similar_sgr(off, end)
    && !similar_sgr(off, on)) {
+   bool found = FALSE;
+   size_t i, j, k;
+
    TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq: 1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
* Copyright 1998-2015,2016 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
* Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
* descriptors.
*/
NCURSES_EXPORT(int)
_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
SCREEN *sp MAYBE_UNUSED,
    int mode MAYBE_UNUSED,
    int milliseconds,
    int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

* latest weekly patch

```


- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog

--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
(6.5+20241006) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog

--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi

Prereq: 1.669

--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; \$Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp \$
+; \$Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp \$

; TODO add examples

; TODO bump ABI to 6

@@ -10,7 +10,7 @@

!define VERSION_MAJOR "6"

```

!define VERSION_MINOR "5"
!define VERSION_YYYY "2024"
-!define VERSION_MMDD "0928"
+!define VERSION_MMDD "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurset.spec
--- ncurses-6.5-20240928+/package/ncurset.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurset.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncurset6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq: 1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000

```

```

@@ -1,5 +1,5 @@
/*****

-
* Copyright 2019-2021,2022 Thomas E. Dickey                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                *
* Copyright 1998-2016,2017 Free Software Foundation, Inc.    *
*                                                              *

* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -37,7 +37,7 @@
*****/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
*/

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
- char *check = nl_langinfo(CODESET);
+ const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
    suits = uglyphs;
@@ -448,8 +448,8 @@
        !strcmp(check, "CP437") ||
        !strcmp(check,
"IBM850") ||
        !strcmp(check, "CP850")) {
- char *smacs = tigetstr("smacs");
- char *smpch = tigetstr("smpch");
+ const char *smacs = tigetstr("smacs");
+ const char *smpch = tigetstr("smpch");
}
/*
    * The ncurses library makes this check to decide whether to allow
    * the alternate character set for the (normally) nonprinting codes.

Index: test/bs.c
Prereq: 1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****

- * Copyright 2018-2022,2023 Thomas E. Dickey                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
* Copyright 1998-2016,2017 Free Software Foundation, Inc.    *
*                                                              *

```

```

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@@ -35,7 +35,7 @@
* v2.0 featuring strict ANSI/POSIX conformance, November 1993.
* v2.1 with ncurses mouse support, September 1995
*
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
*/

#include <test.priv.h>
@@ -147,7 +147,7 @@
    bool placed; /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
    int l, xend, yend;

Index: test/cardfile.c
Prereq: 1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2019-2021,2022 Thomas E. Dickey *
+ * Copyright 2019-2022,2024 Thomas E. Dickey *
* Copyright 1999-2016,2017 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey
*
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
*

```

```

* File format: text beginning in column 1 is a title; other text is content.
*/
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
    CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
    FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
    FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/*****

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
    WINDOW *win;
    CARD *p;
Index: test/chgat.c
Prereq: 1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $

```

```

+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
*
* test-driver for chgat/wchgat/mvchgat/mvwchgat
*/
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS *sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
* sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
        sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "Basic commands:"
        ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq: 1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2008-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
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to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.                                           *
*****/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
*
* demonstrate how to use printw with/without wrapping.
*/
@@ -212,7 +212,7 @@
}

static void

```

```

-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
        sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
- static const char *msgs[] =
+ static NCURSES_CONST char *msgs[] =
    {
        "Basic commands:"
        ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq: 1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2020,2021 Thomas E. Dickey                *
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*                                                              *
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@@ -27,7 +27,7 @@
* authorization.                                           *
*****/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
*/

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
    int result = 0;
    char *endp = 0;
- size_t n;

    if ((result = (int) strtol(color,
&endp, 0)) >= 0
&& (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
result = -1;
    } else {

```

```

+ size_t n;
for (n = 0; n < SIZEOF(the_color_names); ++n) {
    if (!strcmp(the_color_names[n], color)) {
        result = (int) n;
Index: test/demo_defkey.c
Prereq: 1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
*
* Demonstrate the define_key() function.
* Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

```

```

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

    really_define_key(win, string, code);
}

```

Index: test/demo_forms.c

Prereq: 1.63

```

--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1988-2022,2023 Thomas E. Dickey
+ * Copyright 1988-2023,2024 Thomas E. Dickey
* Copyright 2003-2016,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
2024/10/06 21:15:12 tom Exp $
*
* Demonstrate a variety of functions from the form library.
* Thomas Dickey - 2003/4/26

```



```
@@ -148,7 +148,7 @@
```

```
}
```

```
static FIELD *
```

```
-make_label(const char *label, int frow, int fcol)
```

```
+make_label(NCURSES_CONST char *label, int frow, int fcol)
```

```
{
```

```
    FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);
```

```
@@ -242,7 +242,7 @@
```

```
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)
```

```
static FIELD *
```

```
-another_field(FORM *form, const FIELD *const field)
```

```
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
```

```
{
```

```
    FIELD **f = form_fields(form);
```

```
    FIELD *result = 0;
```

```
@@ -306,9 +306,9 @@
```

```
}
```

```
static void
```

```
-show_current_field(WINDOW *win, FORM *form)
```

```
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
```

```
{
```

```
-    FIELD *field;
```

```
+    NCURSES_CONST FIELD *field;
```

```
    int field_rows, field_cols, field_max;
```

```
    int currow, curcol;
```

```
@@ -325,7 +325,7 @@
```

```
    waddch(win, '\n');
```

```
    if ((field = current_field(form)) != 0) {
```

```
-    FIELDTYPE *type;
```

```
+    NCURSES_CONST
```

```
    FIELDTYPE *type;
```

```
    int nbuf;
```

```
wprintw(win, "Page %d%s, Field %d/%d%s:",
```

```
@@ -383,7 +383,7 @@
```

```
waddstr(win, "\n");
```

```
for (nbuf = 0; nbuf <= 2; ++nbuf) {
```

```
-    char *buffer;
```

```
+    NCURSES_CONST char *buffer;
```

```
    if ((buffer = field_buffer(field, nbuf)) != 0) {
```

```
wprintw(win, "buffer %d:", nbuf);
```

```

(void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-   const char *fname;
-   static const char *my_enum[] =
+   NCURSES_CONST char *fname;
+   static NCURSES_CONST char *my_enum[] =
        {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
-   WINDOW *w;
+   NCURSES_CONST WINDOW *w;
    WINDOW *also;
    int finished = 0;

Index: test/demo_menus.c
Prereq: 1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
+1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2003-2016,2017 Free Software Foundation, Inc.    *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
*
* Demonstrate a variety of functions from the menu library.
* Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)

```

```

{
    return wGetchar(menu_win(m));
}
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
    Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
    wclrtoeol(status);
    wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
    Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
    wclrtoeol(status);
    wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@
/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));

```

```

@@ -584,10 +584,10 @@
* the others
*/
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-   ITEM *i;
+   NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
-   MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+   NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
    unsigned mask = td->mask;
    if (mask == 0)
        set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
    unsigned newtrace = 0;
    for (ip = menu_items(mpTrace); *ip; ip++) {
    if (item_value(*ip)) {
-   MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+   NCURSES_CONST
MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
        newtrace |= td->mask;
    }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
    WINDOW *top_win = menu_win(menu);
    WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)

```

```
+show_status(int ch, NCURSES_CONST MENU * menu)
```

```
{
    wmove(status, 0, 0);
    wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
    wrefresh(menu_win(last_menu));
    if (code == E_UNKNOWN_COMMAND
        || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
        MENU_DATA *td = (MENU_DATA *) item_userptr(item);
        td->func((int) td->mask);
    }
}
```

Index: test/demo_new_pair.c

Prereq: 1.28

--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29

19:30:26.000000000 +0000

+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000

@@ -27,7 +27,7 @@

* authorization.

*

*****/

/*

- * \$Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp \$

+ * \$Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp \$

*

* Demonstrate the alloc_pair() function.

*/

@@ -49,7 +49,7 @@

static bool

valid_cap(NCURSES_CONST char *name)

```
{
-    char *value = tigetstr(name);
+    const char *value = tigetstr(name);
    return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}
```

Index: test/demo_panels.c

Prereq: 1.48

--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000

+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000

@@ -1,5 +1,5 @@

*****/

-

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*

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*

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*

*

*

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```

@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
*
* Demonstrate a variety of functions from the panel library.
*/
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
unboxed = FALSE;
@@ -301,7 +301,7 @@
int code;
int y0, x0;
int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
char also[80];

getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

```

```

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
PANEL *pan)
{
    int result = 0;
    int j;
Index: test/demo_termcap.c
Prereq: 1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2005-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey
*
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
*
* A simple demo of the termcap interface.
*/
@@ -256,7 +256,7 @@

* to hold all of the strings extracted from the terminal entry.
*/
char area[1024], *ap = area;
- char *str;
+ NCURSES_CONST char *str;
int num;

if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@

```

```

}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
    char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
    if (x_opt && (my_blob == 0) && y_opt) {
#ifdef NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
        if (term != 0
            && ((NUM_BOOLEANS(term) != BOOLCOUNT)
                || (NUM_NUMBERS(term) != NUMCOUNT))
@@ -781,12 +781,12 @@
        {
            int ch;
            int n;
-        char *name;
+        NCURSES_CONST char *name;
            bool a_opt = FALSE;
#ifdef defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
            bool v_opt = FALSE;
#endif
-        char *input_name = 0;
+        NCURSES_CONST char *input_name = 0;

            int repeat;
            int r_opt = 1;
@@ -867,7
+867,7 @@
        } else if ((name = getenv("TERM")) != 0) {
            brute_force(name);
        } else {
-        static char dumb[] = "dumb";
+        static NCURSES_CONST char dumb[] = "dumb";
            brute_force(dumb);
        }
    }
@@ -894,7 +894,7 @@
        } else if ((name = getenv("TERM")) != 0) {
            demo_termcap(name);
        } else {
-        static char dumb[] = "dumb";
+        static NCURSES_CONST char dumb[] = "dumb";

```



```

demo_termcap(dumb);
}
}
Index: test/demo_terminfo.c
Prereq: 1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2019-2022,2023 Thomas E. Dickey                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.    *
 *
                                *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5 /* omit "colors", since CPU-time is a problem */
    static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
    unsigned n;
    NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
    if (x_opt && (my_blob == 0)) {
    if (y_opt) {
#ifdef NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    const TERMTYPE *term = (TERMTYPE *) cur_term;

```

```

    if (term != 0
    && ((NUM_BOOLEANS(term)
    != BOOLCOUNT)
    || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
    int ch;
    int n;
    int repeat;
-   char *name;
+   NCURSES_CONST char *name;
    int r_opt = 1;
-   char *input_name = 0;
+   const char *input_name = 0;

    while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
switch (ch) {
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
        brute_force(name);
    } else {
-   static char dumb[] = "dumb";
+   static NCURSES_CONST char dumb[] = "dumb";
        brute_force(dumb);
    }
}
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
        demo_terminfo(name);
    } else {
-   static char dumb[] = "dumb";
+   static NCURSES_CONST char dumb[] = "dumb";
        demo_terminfo(dumb);
    }
}
Index: test/dots.c
Prereq: 1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2019-2022,2023 Thomas E. Dickey
+ * Copyright 2019-2023,2024 Thomas E. Dickey
* Copyright 1999-2013,2017 Free Software Foundation, Inc.
*
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@@ -30,7 +30,7 @@
/*

```

```

* Author: Thomas E. Dickey <dickey@clark.net> 1999
*
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
*
* A simple demo of the terminfo interface.
*/
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq: 1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****

- * Copyright 2019-2022,2023 Thomas E. Dickey          *
+ * Copyright 2019-2023,2024 Thomas E. Dickey          *
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*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey - 2007
*
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
*
* A simple demo of the terminfo interface, and mvcur.
*/
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq: 1.33

```

```

--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

```

```

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
    int result = tgetnum(cap);
-   char *value = env ? getenv(env) : 0;
+   const char *value = env ? getenv(env) : 0;
    if (value != 0 && *value != 0) {
        char *next = 0;
        long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
        double c;
        char buffer[1024];
        char area[1024];
-   char *name;
+   NCURSES_CONST char *name;
        size_t need;
        char *my_env;

```

Index: test/dup_field.c

Prereq: 1.9

```

--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.
 *
*****/
/*

```

```

- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
*
* Demonstrate dup_field().
*/
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

    form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@
}

default:
    modified = (ch < MIN_FORM_COMMAND
-    && isprint(ch));
+    && isprint(UChar(ch)));
    break;
}

```

Index: test/filter.c

Prereq: 1.38

--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000

+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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* *

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@@

-30,7 +30,7 @@

/*

* Author: Thomas E. Dickey 1998

*

- * \$Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp \$

+ * \$Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp \$

*

* An example of the 'filter()' function in ncurses, this program prompts

* for commands and executes them (like a command shell). It illustrates

@@ -65,7 +65,7 @@

if (clocked) {

if (limit >= 3) {

time_t now = time((time_t *) 0);

- struct tm *my = localtime(&now);

+ const struct tm *my = localtime(&now);

char buffer[80];

int skip, y, x;

int margin;

Index: test/form_driver_w.c

Prereq: 1.17

--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000

+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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@@ -32,7 +32,7 @@

*****/

/*

- * \$Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp \$

+ * \$Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp \$

```

*
* Test form_driver_w (int, int, wchar_t), a wide char aware
* replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " ^D,^Q,ESC      - quit program",
Index: test/gdc.c
Prereq: 1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
* modified 10-18-89
for curses (jrl)
* 10-18-89 added signal handling
*
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
*/

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
- struct tm *tm;
+ NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
- struct tm *tm;
+ NCURSES_CONST struct tm *tm;
    long t, a;
    int i, j, s, k, ch;
    int count = 0;
@@ -293,7 +293,7 @@

    InitAndCatch({
if (redirected) {

```

```

-   char *name = getenv("TERM");
+   NCURSES_CONST char *name = getenv("TERM");
    if (name == 0
        || newterm(name, ofp, ifp) == 0) {
        fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
        _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
        {
            char *d2 = buf + 10;
-   char *s2 = buf + 19;
+   NCURSES_CONST char *s2 = buf + 19;
            while ((*d2++ = *s2++) != '\0') ;
        }
        MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq: 1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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* Copyright 2007-2010,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
+ * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
*/
/*
    int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
    {
        "Test input from screen using inch(), etc., in a moveable viewport.",
        ""
    }
Index: test/inchs.c
Prereq: 1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000

```



```

@@ -1,5 +1,5 @@
/*****
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* Copyright 2007-2012,2017 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of
charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/

/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
*
* Author: Thomas E Dickey
*/
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
    "Test input from screen using inch(), etc., in a moveable viewport.",
    ""
Index: test/ins_wide.c
Prereq: 1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2020,2022 Thomas E. Dickey          *
+ * Copyright
2020-2022,2024 Thomas E. Dickey          *
* Copyright 2002-2016,2017 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/

/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
*
* Demonstrate the wins_wstr() and wins_wch functions.
* Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@

```


Prereq: 1.34

--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

*

*

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp \$

*

* Demonstrate the winsstr() and winsch functions.

* Thomas Dickey - 2002/10/19

@@ -98,7 +98,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/knight.c

Prereq: 1.52

--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000

+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

*

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@@ -34,7 +34,7 @@

* Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995. Mouse support

* added September 20th 1995.

*

- * \$Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp \$

+ * \$Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp \$

*/

```

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+    int row, int column)
{
    if (doneSize <= 1)
    return (TRUE);
Index: test/list_keys.c
Prereq: 1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2022,2023 Thomas E. Dickey                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
 * Copyright 2016,2017 Free Software Foundation, Inc.        *
 *                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                           *
*****/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
        for (k = 0; k < count; ++k) {
-            TERMTYPE *term;
+            const TERMTYPE *term;
            set_curterm(terms[k]);
            term = (TERMTYPE *) cur_term;
            total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;

```

```

set_curterm(terms[k]);
if ((value = termname()) == NULL)
    failed("termname");
Index: test/move_field.c
Prereq: 1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
* authorization.
*
*****/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
*
* Demonstrate move_field().
*/
@@ -146,27 +146,27 @@
}

static FieldAttrs
*
my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

```

```
form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@
```

default:

```

    modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
    break;
}

```

@@ -275,9 +275,9 @@

```
/* display a status message to show what's happening */
```

static void

```
-show_status(FORM *form, FIELD *field)
```

```
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
*field)
```

 $\{$

- WINDOW *sub = form_sub(form);

```
+ NCURSES_CONST WINDOW *sub = form_sub(form);
```

```
int currow, curcol;
```

```
getyx(stdscr, currow, curcol);
```

Index: test/movewindow.c

Prereq: 1.54

```
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
```

@@ -1,5 +1,5 @@

/*****

- * Copyright 2018-2022,2023 Thomas E. Dickey *

+ * Copyright 2018-2023,2024 Thomas E. Dickey *

* Copyright 2006-2013,2017 Free Software Foundation, Inc. *

* *

* Permission is hereby granted, free of charge, to any person obtaining a *

@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp \$

+ * \$Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp \$

*

* Demonstrate move functions for windows and derived windows from the curses

* library.

@@ -135.7 +135.7 @@

*/

static PAIR *

```
selectcell(WINDOW *parent,
```

```

- WINDOW *child,
+ NCURSES_CONST WINDOW *child,
  int uli, int ulj,
  int lri, int lrj,
  bool relative,
@@ -252,7 +252,7 @@
  int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
  int min_line = (parent == stdscr) ? LINE_MIN : 0;
  int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
  bool result = FALSE;

  head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

```

```

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
  WINDOW *result = 0;
  int n = window2num(win);
@@ -435,7 +435,7 @@
  int max_col = top ? COL_MAX
: getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
  bool more;

  head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

```

```

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
  int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
  int max_col = top ? COL_MAX : getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;

```

```

bool more;

show_derwin(win);
Index: test/ncurses.c
Prereq: 1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2022,2023 Thomas E. Dickey                      *
+ * Copyright 2018-2023,2024
Thomas E. Dickey                      *
* Copyright 1998-2016,2017 Free Software Foundation, Inc.        *
*                                                                    *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -41,7 +41,7 @@
Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

*****/

@@ -273,7 +273,7 @@
++x;
break;
default:
- if (!isprint(ch) || ch >= KEY_MIN) {
+ if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
beep();
} else if ((int) strlen(buffer) < limit) {
int j;
@@ -928,7 +928,7 @@
/* at least Solaris SVR4 curses breaks unctrl(128), etc. */
c2 &= 0x7f;
#endif
- if (isprint(c))
+ if (isprint(UChar(c)))
(void)
wprintw(win, "%c", UChar(c));
else if (c2 != UChar(c))
(void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
chtype extras = (chtype) ac;

if (UseColors) {
- NCURSES_PAIRS_T pair = 0;

```



```

+ NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
    pair = 1;
    if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
  for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
    int row = grid_top + (i / per_row) - base_row;
    int col = (i % per_row + 1) * width;
-   NCURSES_PAIRS_T pair = i;

    if ((i / per_row) > row_limit)
      break;
@@ -2355,6 +2354,7 @@
    if (row >= 0 && move(row, col) != ERR) {
      NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
      NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+   NCURSES_PAIRS_T pair = i;

    init_pair(pair, fg, bg);
    attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-   long i;
+   int i;

  int top = 0, width;
  int base_row = 0;
  int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
  /* show color names/numbers across the top */
  for (i = 0; i < per_row; i++) {
    show_color_name(top + 2,
-   ((int) i + 1) * width,
-   (int) i * zoom_size + MinColors,
+   (i + 1) * width,
+   i * zoom_size + MinColors,
    opt_wide,
    opt_zoom);
  }

  /* show a grid of colors, with color names/ numbers on the left */
  for (i = (base_row * per_row); i < pairs_max; i++) {
-   int row = grid_top + ((int) i / per_row) - base_row;
-   int col = ((int) i % per_row + 1) * width;
-   int pair = (int) i;
+   int row = grid_top + (i / per_row) - base_row;

```

```

+   int col = (i % per_row + 1) * width;
+   int pair = i;

    if ((i / per_row) > row_limit)
        break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-   char *s;
+   NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
    attr |= (test_attrs & A_ALTCHARSET);
    setcchar(dst, test_wch, attr, pair, NULL);
    }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-   pair ul, lr, *tmp;
+   pair ul, lr;
+   NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
case CTRL('X'): /* resize window */
    if (current) {

```

```

- pair *tmp, ul, lr;
+ NCURSES_CONST pair *tmp;
+ pair ul, lr;
  int mx, my;

  move(0, 0);
  @@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
*pan)
{
  WINDOW *win = panel_window(pan);
  const char *userptr = (const char *) panel_userptr(pan);
  @@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
  WINDOW *win = panel_window(pan);
  const char *userptr = (const char *) panel_userptr(pan);
  @@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
  int count;
  int itmp;
  @@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
  ITEM **items;
-  ITEM *i, **p;
+  NCURSES_CONST ITEM *i;
+  ITEM **p;

  for (;;) {
    bool changed = FALSE;
    @@ -6424,7 +6426,7 @@

    if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
    && nbuf > 0) {

```

```

- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
size_t have = (source ? strlen(source) : 0) + 1;
size_t need
= 80 + have;
char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
    _nc_STRNCPY(temp, source ? source : "", have + 1);
    len = (size_t) (char *) field_userptr(me);
    if (c <= KEY_MAX) {
- if (isgraph(c) && (len + 1) < sizeof(temp)) {
+ if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
        temp[len++] = (char) c;
        temp[len] = 0;
        set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
    }

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
- char *s = field_buffer(fld, 0);
+ NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
- FIELD *f[12], *secure;
+ FIELD *f[12];
+ NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)

```

```

+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
    switch ((otCOPY) flavor) {
        case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
        bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
        bool xterm_colors = FALSE;
-   char *palette_file = 0;
+   NCURSES_CONST char *palette_file = 0;
#endif

        setlocale(LC_ALL, "");
Index: test/padview.c
Prereq: 1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2019-2021,2022 Thomas E. Dickey                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                *
 * Copyright 2017 Free
Software Foundation, Inc.                *
*                                           *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
*
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
*/

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
-   char *s = my_blob + 3;
+   const char *s = my_blob + 3;
    char *d = my_blob;
    Trace(("trim BOM"));
    do {
@@ -213,7 +213,7 @@
        for (k = 0; my_vec[k]; ++k) {
            char *s;
#if USE_WIDEC_SUPPORT
-   char *last = my_vec[k] + (int) strlen(my_vec[k]);

```

```

+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
wchar_t wch[2];
size_t rc;
#ifdef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =

{
"Commands:",
" q,^Q,ESC - quit this program",
@@ -532,7 +532,7 @@
beep();
break;
}
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
got_number = FALSE;
value = 0;
}
Index: test/parse_rgb.h
Prereq: 1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1988, 2018, 2020 Thomas E. Dickey
+ * Copyright 1988, 2018, 2020, 2024 Thomas E. Dickey
*
* Permission is hereby granted, free of charge, to any person obtaining a
* copy of this software and associated documentation files (the
@@ -26,7 +26,7 @@
* authorization.
*
*****/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
*
* Sample implementation of ncurses RGB extension from user_caps(5).
*/
@@ -49,7 +49,7 @@
int bits;
int pwr2;
int r = 0, g = 0, b = 0;

```

```

- char *data;
+ const char *data;
char ch;

for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq: 1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2022,2023 Thomas E. Dickey                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
* Copyright 2017,2018 Free Software Foundation, Inc.        *
*
*
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
*
* Author: Thomas E. Dickey
*
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
        char *t = s;
- char *tc;
+ const char *tc;
        int num;
        char chr;
        int found = 0;
@@ -1374,8 +1374,8 @@
        int r, g, b, nocolor;
        float rf, gf, bf;
        unsigned check;
- char *t;
- char *s = t = strchr(buffer, '#');
+ char *s = strchr(buffer, '#');
+ const char *t = s;
        bool matched = FALSE;

        if (s != 0) {
@@ -1492,7 +1492,7 @@
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

```

```

static void
-dump_picture(PICS_HEAD
* pics)
+dump_picture(const PICS_HEAD * pics)
{
    int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
case 'x':
{
- char *s = optarg;
+ const char *s = optarg;
while (*s) {
    switch (*s++) {
        case 'p':
Index: test/popup_msg.c
Prereq: 1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
*
* Show a multi-line message in a window which may extend beyond the screen.
*
@@ -62,7 +62,7 @@
* Display a temporary window, e.g., to display a help-message.
*/
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
char *const *msg)
{
    int x0 = 4;
    int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

```



```

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
    (void) parent;
    (void) msg;
Index: test/popup_msg.h
Prereq: 1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018,2020 Thomas E. Dickey                *
+ * Copyright 2018-2020,2024 Thomas E. Dickey          *
 * Copyright 2017 Free Software Foundation, Inc.        *
 *
 *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                     *
 *****/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq: 1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
+ * Copyright 2019-2020,2022 Thomas E. Dickey                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey          *
+ * Copyright 2000-2013,2017 Free Software Foundation, Inc.    *
+ *
+ *

```

```

* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey - 2000
*
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
*
* A simple demo of the termcap interface.
*/
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
- char *base = string;
+ const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq: 1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
@@
* authorization.
*
*****/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
*/
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
    int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)

```

```

{
    MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
    MvAddCh(drop->y - 1, drop->x, '-');
    MvAddStr(drop->y, drop->x - 1, "|.");
@@ -144,7 +144,7 @@
}

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
    MvAddCh(drop->y - 2, drop->x, '-');
    MvAddStr(drop->y - 1, drop->x - 1, "/\\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
    MvAddCh(drop->y - 2, drop->x, ' ');
    MvAddStr(drop->y - 1, drop->x - 1, "  ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)

```

```

{
    data->func = func;
    data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " q/Q      exit the program",
Index: test/redraw.c
Prereq: 1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2020-2021,2022 Thomas E. Dickey                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                *
* Copyright 2006-2012,2017 Free Software Foundation, Inc.    *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
*
* Demonstrate the redrawwin() and wredrawln() functions.
* Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " ^Q/ESC/q - quit",
Index: test/savescreen.c
Prereq:
1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@

```

```

/*****
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+ * Copyright 2018-2022,2024 Thomas E. Dickey          *
  * Copyright 2006-2017,2018 Free Software Foundation, Inc. *
  *
  * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
  * authorization.
*****/

/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
  *
  * Demonstrate save/restore functions
  from the curses library.
  * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
    int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
#endif
- char *filename = files[which];
+ NCURSES_CONST char *filename = files[which];
    bool dumped = FALSE;

    if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
- static const char *msgs[] =
+ static NCURSES_CONST char *msgs[] =
    {
        "You are now in the screen-editor, which allows you to make some",
        "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
- static const char *msgs[] =

```

```

+ static NCURSES_CONST char *msgs[] =
+ {
+     "You are now in the screen-loader, which allows you to view",
+     "the dumped/restored screens.",
+     @@ -286,7 +286,7 @@
+     bool replaying = FALSE;
+     bool done = FALSE;
+     char **files;
+
+     -
+     char *fill_by = 0;
+ + NCURSES_CONST char *fill_by = 0;
+ #if USE_WIDEC_SUPPORT
+     cchar_t mycc;
+     static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq: 1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
+ int lastbeep = -1;
+ bool odd = FALSE;
+ time_t tim;
+
+ struct tm *t;
+ const struct tm *t;
+ char szChar[20];
+ char *text;
+ short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq: 1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/*****
* Author: Thomas E. Dickey          1996-on          *
*****/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

```

```

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
size_t need = strlen(base) + 80; \
char *result = malloc(need); \
if (result != NULL) { \
@@ -916,8 +916,8 @@
* Workaround in case getcchar() returns a positive value when the source
* string produces only a L'\0'.
*/
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
NULL, NULL) > 0) { \
    wchar_t test_wch[CCHARW_MAX + 2]; \
    attr_t test_attrs; \
    NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq: 1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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*
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@@ -27,7 +27,7 @@
* authorization. *
*****/
/*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
*
* Demonstrate the waddwchstr() and wadd_wch functions.
* Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{

```

```
const char *showstate;
```

Index: test/test_addchstr.c

Prereq: 1.29

--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp \$

*

* Demonstrate the waddchstr() and waddch functions.

* Thomas Dickey - 2009/9/12

@@ -169,7 +169,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/test_addstr.c

Prereq: 1.20

--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000

@@ -1,5 +1,5 @@

/*****

-

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp \$

*

* Demonstrate the waddstr() and waddch functions.

* Thomas Dickey - 2009/9/12

@@ -91,7 +91,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/test_addwstr.c

Prereq: 1.22

ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp \$

+ * \$Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp \$

*

* Demonstrate the waddwstr() and wadd_wch

functions.

* Thomas Dickey - 2009/9/12

@@ -82,7 +82,7 @@

static int n_opt = -1;

static void

-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)

+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)

{

const char *showstate;

Index: test/test_endwin.c

Prereq: 1.2

--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000

+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000

```

@@ -1,5 +1,5 @@
/*****

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* copy of this software and associated documentation files (the
@@ -26,7 +26,7 @@
* authorization.
*****/

/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
*/
#include <test.priv.h>

@@ -67,7 +67,7 @@
    int rc_e1 = OK;
    int rc_e2 = OK;
    int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
    bool opt_e = FALSE;
    bool opt_i = FALSE;
    bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq: 1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
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@@ -27,7 +27,7 @@
* authorization.
*****/

/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -69,7 +69,7 @@
}

```

```

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " q,^Q,ESC      - quit this program",
Index: test/test_getstr.c
Prereq:
    1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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 *                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                             *
 *****/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int

```

```

recursive_test(int level, char **argv, WINDOW *strwin)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
"Commands:",
" q,^Q,ESC - quit this program",
Index: test/test_instr.c
Prereq: 1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -56,13 +56,13 @@
}

static
void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
wmove(win, line, 0);
wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
- static const char *msgs[] =
+ static NCURSES_CONST char *msgs[] =
{
"Show file contents and a viewport from the variants of winstr."
,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq: 1.9

```

```

--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: test_inwstr.c,v
1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
    (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "Show file contents and a viewport from the variants of winwstr."
        , "Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq: 1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
* THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
*
*****/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $

```

```

*
* Author: Leonid S Usov
*
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-   char *xtermcap;
+   const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2020-2021,2022 Thomas E. Dickey                *
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 *
                                *
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@@ -27,7 +27,7 @@
 * authorization.
 *****/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
    return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
    return (15 * (cell / getmaxy(stswin)));
}

```

```

}
Index: test/test_sgr.c
Prereq: 1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
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* Copyright 2015-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
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@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey
*
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
*
* A simple demo of the sgr/sgr0 terminal capabilities.
*/
@@ -142,10 +142,10 @@
#define MASK_REV (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
- static const char sample[] = "abcdefghijklm";
- static
char params[] = "SURBDBIPA";
+ static NCURSES_CONST char sample[] = "abcdefghijklm";
+ static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
- unsigned count;
- char *my_sgr;
- char *my_sgr0;
- char *my_bold;
- char *my_revs;
- char *my_smso;
+ NCURSES_CONST char *my_sgr;

```

```

+  NCURSES_CONST char *my_sgr0;
+  NCURSES_CONST char *my_bold;
+  NCURSES_CONST char *my_revs;
+  NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
    unsigned ignore = 0;
    unsigned reason = 0;
    unsigned repeat = 0;
+ unsigned count;
    for (count = 0; count < MAXSGR; ++count) {
        values[count] = tparm(my_sgr,
            BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-   char *name;
+   const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
switch (ch)
{
@@ -369,7 +369,7 @@
        } else if ((name = getenv("TERM")) != 0) {
brute_force(name);
        } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
brute_force(dumb);
        }
}

Index: test/test_tparm.c
Prereq: 1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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*
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* copy of this software and associated documentation files (the
@@ -29,7 +29,7 @@
/*
* Author: Thomas E. Dickey

```



```

*
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
*
* Exercise tparm/tparm, either for all possible capabilities with fixed
* parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
    char *next = 0;
    long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
    char *use_strings[MAX_PARM];
    char *result = NULL;
@@ -527,7 +527,7 @@
}
} else {
    char *s = t_opt;
-   char *t;
+   NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
        s = 0;
        if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
-   TERMTYPE *term =
+   (TERMTYPE *) cur_term;
+   NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
        GrowArray(all_caps, max_caps, len_caps);
        GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000

```

```

@@ -1,5 +1,5 @@
/*****
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*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*
*****/

/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
*
* Demonstrate the vidputs and vidattr functions.
* Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/testcurs.c
Prereq: 1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
* wrs(5/28/93) -- modified to be consistent (perform identically) with either
*
*      PDCurses or under Unix System V, R4
*
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
*/

#include <test.priv.h>
@@ -245,7 +245,7 @@
wclrtoobot(win);
if (c >= KEY_MIN)
    wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));

```

```

@@ -748,8 +748,8 @@
keypad(stdscr, TRUE);
raw();
key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-   if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+   if (islower(UChar(key)))
    key = toupper(key);
    for (n = 0; n < MAX_OPTIONS; ++n) {
      if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
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@@ -30,7 +30,7 @@
* Date: 1997/03/17
* From: bayern@morpheus.cis.yale.edu
*
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
*/
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace	TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
    if (isdigit(UChar(*token)))
        move(atoi(token), 0);
    else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq: 1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-

```

```

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@@ -52,7 +52,7 @@
* scroll operation worked, and the refresh() code only had to do a
* partial repaint.
*
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
*/

```

```

#include <test.priv.h>
@@ -93,8 +93,7 @@

```

```

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
    int len = wcwidth(test_wch[0]);
    result += (len > 0) ? len : 1;
    ++src;
@@ -186,12 +185,10 @@
    */
    {
    int j;
- int width = 1;
+ int width;

```

```

    for (j = actual = 0; j < shift; ++j) {
- int count;
-
-
    TEST_CCHAR(s + j, count, {
+ TEST_CCHAR(s + j, {
    width = wcwidth(test_wch[0]);
    }
    , {
@@ -294,7 +291,7 @@

```

```

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
    char *d = my_blob;
    Trace(("trim BOM"));

```

```

do {
@@ -329,7 +326,7 @@
char *s;
int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
wchar_t wch[2];
size_t rc;
#ifdef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
"Commands:",
" q,^Q,ESC - quit this program",
@@ -659,7 +656,7 @@
beep();
break;
}
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
got_number = FALSE;
value = 0;
}

```

Found in path(s):

* /ncurses-6.5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.539 scanf 1.3.8-r1

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1.540 xz-libs 5.6.3-r0

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Version 3.1, 31 March 2009

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Program	Directory
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-----	-----
mach_override	lib/interception/mach_override

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1.542 utmps-lib 0.1.2.3-r2

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1.543 py3-packaging-pyc 24.2-r0

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1.544 libpanelw 6.5_p20241006-r3

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```
# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
# -----
#
# Ncurses 6.5 is at
# https://invisible-island.net/archives/ncurses/
# https://invisible-mirror.net/archives/ncurses/
# https://ftp.gnu.org/gnu/ncurses/
#
# Patches for ncurses 6.5 can be found at
# https://invisible-island.net/archives/ncurses/6.5
# https://invisible-mirror.net/archives/ncurses/6.5
#
# -----
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created Sun Oct 6 23:44:01 UTC 2024
# -----
# NEWS          | 6+++
# VERSION       | 2-
# c++/cursesf.cc | 6+--
# c++/cursesf.h
| 6+--
# c++/cursesm.cc | 6+--
# c++/cursesm.h  | 6+--
# c++/cursespc.cc | 6+--
# c++/cursespad.cc | 6+--
# c++/cursslk.cc | 12++++--
# c++/cursslk.h  | 6+--
# dist.mk        | 4+-
# misc/terminfo.src | 23+++++++--
# ncurses/base/lib_screen.c | 4+-
```



```

# ncurses/base/new_pair.c      |  4 +-
# ncurses/curses.priv.h       |  4 +-
# ncurses/new_pair.h          |  4 +-
# ncurses/tinfo/trim_sgr0.c   |  7 +++-
# ncurses/tty/lib_twait.c     |  6 +--
# package/debian-mingw/changelog |  4 +-
# package/debian-mingw64/changelog |  4 +-
# package/debian/changelog    |  4 +-
# package/mingw-ncurses.nsi    |  4 +-
# package/mingw-ncurses.spec   |  2 -
# package/ncurses.spec        |  2 -
# package/ncursetest.spec      |
2 -
# test/blue.c                 | 10 +++--
# test/bs.c                   |  8 +++-
# test/cardfile.c             | 12 +++--
# test/chgat.c                 |  6 +--
# test/clip_printw.c          |  8 +++-
# test/color_name.h           |  6 +--
# test/demo_defkey.c           |  4 +-
# test/demo_forms.c           | 22 ++++++-----
# test/demo_menus.c           | 32 ++++++++-----
# test/demo_new_pair.c        |  4 +-
# test/demo_panels.c          | 16 +++++--
# test/demo_termcap.c          | 18 +++++--
# test/demo_terminfo.c        | 18 +++++--
# test/dots.c                  |  6 +--
# test/dots_mvcur.c           |  6 +--
# test/dots_termcap.c          |  8 +++-
# test/dup_field.c            | 14 +++++--
# test/filter.c                |  6 +--
# test/form_driver_w.c         |  6 +--
# test/gdc.c                   | 10 +++--
# test/inch_wide.c             |
|  6 +--
# test/inchs.c                 |  6 +--
# test/ins_wide.c              |  6 +--
# test/insdelln.c              |  8 +++-
# test/inserts.c               |  6 +--
# test/knight.c                |  7 +++-
# test/list_keys.c             |  8 +++-
# test/move_field.c            | 18 +++++--
# test/movewindow.c            | 16 +++++--
# test/ncurses.c               | 61 ++++++++-----
# test/padview.c               | 12 +++++-
# test/parse_rgb.h             |  6 +--
# test/picsmap.c               | 14 +++++--
# test/popup_msg.c             |  8 +++-

```

```

# test/popup_msg.h          | 6 +--
# test/railroad.c           | 6 +--
# test/rain.c               | 20 ++++++-----
# test/redraw.c             | 6 +--
# test/savescreen.c         | 14 +++++---
# test/tclock.c             | 4 +-
# test/test.priv.h
| 10 +++++
# test/test_add_wchstr.c     | 6 +--
# test/test_addchstr.c      | 6 +--
# test/test_addstr.c        | 6 +--
# test/test_addwstr.c       | 6 +--
# test/test_endwin.c        | 6 +--
# test/test_get_wstr.c      | 8 +--
# test/test_getstr.c        | 8 +--
# test/test_instr.c         | 8 +--
# test/test_inwstr.c        | 8 +--
# test/test_mouse.c         | 4 +-
# test/test_opaque.c        | 8 +--
# test/test_sgr.c           | 26 ++++++-----
# test/test_tparm.c         | 12 +++++---
# test/test_vidputs.c       | 6 +--
# test/testcurs.c           | 8 +--
# test/testscanw.c          | 6 +--
# test/view.c               | 21 ++++++-----
# 83 files changed, 392 insertions(+), 369 deletions(-)
# -----
Index: NEWS
Prereq:
1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
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-- authorization.
--
-----
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+--- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
-----

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD

```

```

+
20240928
+ improve error-message from infocmp when a terminal entry cannot be
  opened (patch by Branden Robinson).
Index:
VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq: 1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****
- * Copyright 2019-2020,2021 Thomas E. Dickey                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                *
* Copyright 1998-2005,2011 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
- NCursesApplication* S = NCursesApplication::getApplication();
+ const NCursesApplication* S = NCursesApplication::getApplication();

    int n = count();
    if (n > 0) {
Index: c++/cursesf.h
Prereq: 1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode

```

```

/*****
- * Copyright 2019-2021,2022 Thomas E. Dickey          *
+ * Copyright 2019-2022,2024 Thomas E. Dickey          *
* Copyright 1998-2012,2014 Free Software
Foundation, Inc.          *
*
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -33,7 +33,7 @@
* Author: Juergen Pfeifer, 1997          *
*****/

```

```

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

```

```

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
}

```

```

inline void *get_user() {
- UserHook* uptr = reinterpret_cast<UserHook*> (::form_userptr (form));
+ const UserHook* uptr = reinterpret_cast<UserHook*> (::form_userptr (form));
  assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
  return uptr->m_user;
}

```

Index: c++/cursesm.cc

Prereq: 1.27

```

--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
22:47:12.000000000 +0000

```

```

@@ -1,6 +1,6 @@

```

```

// * this is for making emacs happy: -*-Mode: C++;-*-

```

```

/*****

```

```

- * Copyright 2019-2020,2021 Thomas E. Dickey          *
+ * Copyright 2019-2021,2024 Thomas E. Dickey          *
* Copyright 1998-2011,2017 Free Software Foundation, Inc.      *
*
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

```

```

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

```

```

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@

```

```

void
NCursesMenu::setDefaultAttributes()
{
- NCursesApplication* S = NCursesApplication::getApplication();
+
const NCursesApplication* S = NCursesApplication::getApplication();
if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
}
Index: c++/cursesm.h
Prereq: 1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/*****
- * Copyright 2019-2020,2022 Thomas E. Dickey *
+ * Copyright 2019-2022,2024 Thomas E. Dickey *
* Copyright 1998-2012,2014 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -32,7 +32,7 @@
* Author: Juergen Pfeifer, 1997 *
*****/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
}

inline void *get_user() {
- UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+ const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
return uptr->m_user;
}
Index: c++/cursesp.cc
Prereq: 1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****
- * Copyright 2019,2020 Thomas E. Dickey *
+ * Copyright 2019-2020,2024

```

```

Thomas E. Dickey
*
* Copyright 1998-2003,2005 Free Software Foundation, Inc.
*
*
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "curses.h"

-MODULE_ID("$Id: curses.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: curses.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
- PANEL *pan;
+ const PANEL *pan;

    pan = ::panel_above(NULL);
    while (pan) {
Index: c++/cursespad.cc
Prereq: 1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/*****

-
* Copyright 2020 Thomas E. Dickey
+ * Copyright 2020,2024 Thomas E. Dickey
* Copyright 1999-2012,2013 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -36,7 +36,7 @@

#include <curses.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
: NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
    (void) pad_req;

```

```

- NCursesWindow* W = Win();
+ const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
- Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+ Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-   NCursesApplication* A = NCursesApplication::getApplication();
+   const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
- Soft_Label_Key& K = (*this)[i];
+ const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
    Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@

void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-   NCursesApplication* A = NCursesApplication::getApplication();
+   const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-   Soft_Label_Key& K = (*this)[i];

```

```

+  const Soft_Label_Key& K = (*this)[i];
    if (ERR==:slk_set(K.num,bf?K.label:"",K.format))
        Error("slk_set");
    }
Index: c++/cursslk.h
Prereq: 1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/*****
- * Copyright 1919-2020,2021 Thomas E. Dickey
    *
+ * Copyright 2019-2021,2024 Thomas E. Dickey          *
* Copyright 1998-2003,2005 Free Software Foundation, Inc.      *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -33,7 +33,7 @@
*   Author: Juergen Pfeifer, 1997                      *
*****/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

public:
    // Set the text of the Label
-   Soft_Label_Key& operator=(char *text);
+   Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq: 1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written      #
# authorization.                                                    #
#####
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.

```



```

#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
+0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference. It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
# such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention. It refers to the "ANSI" standard and
+# https://wez.furlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago). A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since. Actually that
+# was the second revision; the fifth revision in 1991 is current. The source
+#
# code refers to the second revision in a half-dozen places. Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:

```

```

# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
    use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
    use=ecma+index, use=ecma+italics, use=ecma+strikeout,
    use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
    use=xterm+alt+title,
    use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
    use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
    use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
##### SHANTIH! SHANTIH! SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq: 1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR_SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
    * Replace a window covering the whole screen, i.e., newscr or curscr.
    */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
    WINDOW *target, FILE *source)
{
    WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS

```

Index: ncurses/base/new_pair.c

Prereq: 1.24

```
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@
```

#endif

```
-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")
```

#if NCURSES_EXT_COLORS

```
@@ -193,7 +193,7 @@
```

* pair table.

*/

NCURSES_EXPORT(void)

_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)

+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)

```
{
    colorpair_t *last;
```

Index: ncurses/curses.priv.h

Prereq: 1.691

```
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
```

*****/

/*

- * \$Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp \$

+ * \$Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp \$

*

* curses.priv.h

*

```
@@ -2170,7 +2170,7 @@
```

extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);

extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);

extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);

-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));

+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *

EVENTLIST_2nd(_nc_eventlist *));

extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);

extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);

extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);

Index: ncurses/new_pair.h

Prereq: 1.14

```
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
```

```

+++
ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void) _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void) _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void) _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void) _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void) _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq: 1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
    && PRESENT(set_attributes)) {
- bool found = FALSE;
    char *on = set_attribute_9(tp, 1);
    char *off = set_attribute_9(tp, 0);
    char *end = strdup(exit_attribute_mode);
    char *tmp;
- size_t i, j, k;

    TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
    TR(TRACE_DATABASE, ("sgr0    %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@

```

```

    FreeIfNeeded(off);
} else if (similar_sgr(off, end)
    && !similar_sgr(off, on)) {
+   bool found = FALSE;
+   size_t i, j, k;
+
    TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq: 1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2020,2023 Thomas E. Dickey                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
* Copyright 1998-2015,2016 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
* Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
* descriptors.
*/
NCURSES_EXPORT(int)
_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
SCREEN *sp MAYBE_UNUSED,
    int mode MAYBE_UNUSED,
    int milliseconds,
    int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

* latest weekly patch

```

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog

--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
(6.5+20241006) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog

--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi

Prereq: 1.669

--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; \$Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp \$
+; \$Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp \$

; TODO add examples

; TODO bump ABI to 6

@@ -10,7 +10,7 @@

!define VERSION_MAJOR "6"

```

!define VERSION_MINOR "5"
!define VERSION_YYYY "2024"
-!define VERSION_MMDD "0928"
+!define VERSION_MMDD "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurset.spec
--- ncurses-6.5-20240928+/package/ncurset.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurset.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncurset6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq: 1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000

```

```

@@ -1,5 +1,5 @@
/*****

-
* Copyright 2019-2021,2022 Thomas E. Dickey          *
+ * Copyright 2019-2022,2024 Thomas E. Dickey        *
* Copyright 1998-2016,2017 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -37,7 +37,7 @@
*****/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
*/

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
- char *check = nl_langinfo(CODESET);
+ const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
    suits = uglyphs;
@@ -448,8 +448,8 @@
    !strcmp(check, "CP437") ||
    !strcmp(check,
"IBM850") ||
    !strcmp(check, "CP850")) {
- char *smacs = tigetstr("smacs");
- char *smpch = tigetstr("smpch");
+ const char *smacs = tigetstr("smacs");
+ const char *smpch = tigetstr("smpch");
}
/*
* The ncurses library makes this check to decide whether to allow
* the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq: 1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****

- * Copyright 2018-2022,2023 Thomas E. Dickey          *
+ * Copyright 2018-2023,2024 Thomas E. Dickey        *
* Copyright 1998-2016,2017 Free Software Foundation, Inc. *
*

```



```

* Permission is hereby granted, free of charge,
to any person obtaining a *
@@ -35,7 +35,7 @@
* v2.0 featuring strict ANSI/POSIX conformance, November 1993.
* v2.1 with ncurses mouse support, September 1995
*
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
*/

#include <test.priv.h>
@@ -147,7 +147,7 @@
    bool placed; /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
    int l, xend, yend;

Index: test/cardfile.c
Prereq: 1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2019-2021,2022 Thomas E. Dickey *
+ * Copyright 2019-2022,2024 Thomas E. Dickey *
* Copyright 1999-2016,2017 Free Software Foundation, Inc. *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey
*
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
*

```

```

* File format: text beginning in column 1 is a title; other text is content.
*/
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
    CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
    FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
    FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/*****

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
    WINDOW *win;
    CARD *p;
Index: test/chgat.c
Prereq: 1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $

```

```

+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
*
* test-driver for chgat/wchgat/mvchgat/mvwchgat
*/
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS *sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
* sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
        sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "Basic commands:"
        ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq: 1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2008-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge,
to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.                                           *
*****/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
*
* demonstrate how to use printw with/without wrapping.
*/
@@ -212,7 +212,7 @@
}

static void

```

```

-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
        sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "Basic commands:"
        ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq: 1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2020,2021 Thomas E. Dickey                *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.    *
 *                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                           *
*****/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
    int result = 0;
    char *endp = 0;
-    size_t n;

    if ((result = (int) strtol(color,
&endp, 0)) >= 0
&& (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
result = -1;
    } else {

```

```

+ size_t n;
for (n = 0; n < SIZEOF(the_color_names); ++n) {
    if (!strcmp(the_color_names[n], color)) {
        result = (int) n;
Index: test/demo_defkey.c
Prereq: 1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
*
* Demonstrate the define_key() function.
* Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

```

```

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

    really_define_key(win, string, code);
}

```

Index: test/demo_forms.c

Prereq: 1.63

```

--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1988-2022,2023 Thomas E. Dickey
+ * Copyright 1988-2023,2024 Thomas E. Dickey
* Copyright 2003-2016,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
2024/10/06 21:15:12 tom Exp $
*
* Demonstrate a variety of functions from the form library.
* Thomas Dickey - 2003/4/26

```

```
@@ -148,7 +148,7 @@
```

```
}
```

```
static FIELD *
```

```
-make_label(const char *label, int frow, int fcol)
```

```
+make_label(NCURSES_CONST char *label, int frow, int fcol)
```

```
{
```

```
    FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);
```

```
@@ -242,7 +242,7 @@
```

```
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)
```

```
static FIELD *
```

```
-another_field(FORM *form, const FIELD *const field)
```

```
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
```

```
{
```

```
    FIELD **f = form_fields(form);
```

```
    FIELD *result = 0;
```

```
@@ -306,9 +306,9 @@
```

```
}
```

```
static void
```

```
-show_current_field(WINDOW *win, FORM *form)
```

```
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
```

```
{
```

```
-    FIELD *field;
```

```
+    NCURSES_CONST FIELD *field;
```

```
    int field_rows, field_cols, field_max;
```

```
    int currow, curcol;
```

```
@@ -325,7 +325,7 @@
```

```
    waddch(win, '\n');
```

```
    if ((field = current_field(form)) != 0) {
```

```
-    FIELDTYPE *type;
```

```
+    NCURSES_CONST
```

```
    FIELDTYPE *type;
```

```
    int nbuf;
```

```
    wprintw(win, "Page %d%s, Field %d/%d%s:",
```

```
@@ -383,7 +383,7 @@
```

```
    waddstr(win, "\n");
```

```
    for (nbuf = 0; nbuf <= 2; ++nbuf) {
```

```
-    char *buffer;
```

```
+    NCURSES_CONST char *buffer;
```

```
    if ((buffer = field_buffer(field, nbuf)) != 0) {
```

```
        wprintw(win, "buffer %d:", nbuf);
```

```

(void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-   const char *fname;
-   static const char *my_enum[] =
+   NCURSES_CONST char *fname;
+   static NCURSES_CONST char *my_enum[] =
        {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
-   WINDOW *w;
+   NCURSES_CONST WINDOW *w;
    WINDOW *also;
    int finished = 0;

Index: test/demo_menus.c
Prereq: 1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
+1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2003-2016,2017 Free Software Foundation, Inc.    *
*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
*
* Demonstrate a variety of functions from the menu library.
* Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)

```

```

{
    return wGetchar(menu_win(m));
}
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
    Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
    wclrtoeol(status);
    wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
    Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
    wclrtoeol(status);
    wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@
/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));

```



```

@@ -584,10 +584,10 @@
* the others
*/
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-   ITEM *i;
+   NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
    unsigned mask = td->mask;
    if (mask == 0)
        set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
    unsigned newtrace = 0;
    for (ip = menu_items(mpTrace); *ip; ip++) {
    if (item_value(*ip)) {
-     MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+     NCURSES_CONST
MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
        newtrace |= td->mask;
    }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+ NCURSES_CONST MENU * current,
+ int by_y, int by_x)
{
    WINDOW *top_win = menu_win(menu);
    WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)

```

```

+show_status(int ch, NCURSES_CONST MENU * menu)
{
    wmove(status, 0, 0);
    wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
    wrefresh(menu_win(last_menu));
    if (code == E_UNKNOWN_COMMAND
        || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
        MENU_DATA *td = (MENU_DATA *) item_userptr(item);
        td->func((int) td->mask);
    }
}
Index: test/demo_new_pair.c
Prereq: 1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
*
* Demonstrate the alloc_pair() function.
*/
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-    char *value = tigetstr(name);
+    const char *value = tigetstr(name);
    return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

```

Index: test/demo_panels.c

Prereq: 1.48

```

--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2018-2020,2022 Thomas E. Dickey
+ * Copyright 2018-2022,2024 Thomas E. Dickey
* Copyright 2003-2016,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a

```

```

@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
*
* Demonstrate a variety of functions from the panel library.
*/
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
unboxed = FALSE;
@@ -301,7 +301,7 @@
int code;
int y0, x0;
int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
char also[80];

getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

```

```

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
PANEL *pan)
{
    int result = 0;
    int j;
Index: test/demo_termcap.c
Prereq: 1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.    *
 *                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

 * to hold all of the strings extracted from the terminal entry.
 */
char area[1024], *ap = area;
- char *str;
+ NCURSES_CONST char *str;
int num;

if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@

```

```

}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
    char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
    if (x_opt && (my_blob == 0) && y_opt) {
#ifdef NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
        if (term != 0
            && ((NUM_BOOLEANS(term) != BOOLCOUNT)
                || (NUM_NUMBERS(term) != NUMCOUNT))
@@ -781,12 +781,12 @@
        {
            int ch;
            int n;
-        char *name;
+        NCURSES_CONST char *name;
            bool a_opt = FALSE;
#ifdef defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
            bool v_opt = FALSE;
#endif
-        char *input_name = 0;
+        NCURSES_CONST char *input_name = 0;

            int repeat;
            int r_opt = 1;
@@ -867,7
+867,7 @@
        } else if ((name = getenv("TERM")) != 0) {
            brute_force(name);
        } else {
-        static char dumb[] = "dumb";
+        static NCURSES_CONST char dumb[] = "dumb";
            brute_force(dumb);
        }
    }
@@ -894,7 +894,7 @@
        } else if ((name = getenv("TERM")) != 0) {
            demo_termcap(name);
        } else {
-        static char dumb[] = "dumb";
+        static NCURSES_CONST char dumb[] = "dumb";

```

```

demo_termcap(dumb);
}
}
Index: test/demo_terminfo.c
Prereq: 1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2019-2022,2023 Thomas E. Dickey                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.    *
 *
                                *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5 /* omit "colors", since CPU-time is a problem */
    static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
    unsigned n;
    NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
    if (x_opt && (my_blob == 0)) {
    if (y_opt) {
#ifdef NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    const TERMTYPE *term = (TERMTYPE *) cur_term;

```

```

    if (term != 0
    && ((NUM_BOOLEANS(term)
    != BOOLCOUNT)
    || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
    int ch;
    int n;
    int repeat;
-   char *name;
+   NCURSES_CONST char *name;
    int r_opt = 1;
-   char *input_name = 0;
+   const char *input_name = 0;

    while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
switch (ch) {
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
        brute_force(name);
    } else {
-   static char dumb[] = "dumb";
+   static NCURSES_CONST char dumb[] = "dumb";
        brute_force(dumb);
    }
}
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
        demo_terminfo(name);
    } else {
-   static char dumb[] = "dumb";
+   static NCURSES_CONST char dumb[] = "dumb";
        demo_terminfo(dumb);
    }
}
Index: test/dots.c
Prereq: 1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2019-2022,2023 Thomas E. Dickey
+ * Copyright 2019-2023,2024 Thomas E. Dickey
* Copyright 1999-2013,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -30,7 +30,7 @@
/*

```

```

* Author: Thomas E. Dickey <dickey@clark.net> 1999
*
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
*
* A simple demo of the terminfo interface.
*/
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq: 1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2022,2023 Thomas E. Dickey                *
+ * Copyright 1919-2023,2024 Thomas E. Dickey                *
* Copyright 2007-2013,2017 Free Software Foundation, Inc.    *
*                                                              *
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@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey - 2007
*
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
*
* A simple demo of the terminfo interface, and mvcur.
*/
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq: 1.33

```



```

--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

```

```

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
    int result = tgetnum(cap);
-   char *value = env ? getenv(env) : 0;
+   const char *value = env ? getenv(env) : 0;
    if (value != 0 && *value != 0) {
        char *next = 0;
        long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
        double c;
        char buffer[1024];
        char area[1024];
-   char *name;
+   NCURSES_CONST char *name;
        size_t need;
        char *my_env;

```

Index: test/dup_field.c

Prereq: 1.9

```

--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.
 *
*****/
/*

```

```

- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
*
* Demonstrate dup_field().
*/
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

    form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@
}

default:
    modified = (ch < MIN_FORM_COMMAND
-    && isprint(ch));
+    && isprint(UChar(ch)));
    break;
}

```

Index: test/filter.c

Prereq: 1.38

--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000

+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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* *

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@@

-30,7 +30,7 @@

/*

* Author: Thomas E. Dickey 1998

*

- * \$Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp \$

+ * \$Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp \$

*

* An example of the 'filter()' function in ncurses, this program prompts

* for commands and executes them (like a command shell). It illustrates

@@ -65,7 +65,7 @@

if (clocked) {

if (limit >= 3) {

time_t now = time((time_t *) 0);

- struct tm *my = localtime(&now);

+ const struct tm *my = localtime(&now);

char buffer[80];

int skip, y, x;

int margin;

Index: test/form_driver_w.c

Prereq: 1.17

--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000

+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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@@ -32,7 +32,7 @@

*****/

/*

- * \$Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp \$

+ * \$Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp \$

```

*
* Test form_driver_w (int, int, wchar_t), a wide char aware
* replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " ^D,^Q,ESC      - quit program",
Index: test/gdc.c
Prereq: 1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
* modified 10-18-89
for curses (jrl)
* 10-18-89 added signal handling
*
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
*/

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
- struct tm *tm;
+ NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
- struct tm *tm;
+ NCURSES_CONST struct tm *tm;
    long t, a;
    int i, j, s, k, ch;
    int count = 0;
@@ -293,7 +293,7 @@

    InitAndCatch({
if (redirected) {

```

```

- char *name = getenv("TERM");
+ NCURSES_CONST char *name = getenv("TERM");
    if (name == 0
        || newterm(name, ofp, ifp) == 0) {
        fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
        _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
        {
            char *d2 = buf + 10;
- char *s2 = buf + 19;
+ NCURSES_CONST char *s2 = buf + 19;
            while ((*d2++ = *s2++) != '\0') ;
        }
        MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq: 1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1919-2020,2022 Thomas E. Dickey
+ * Copyright 1919-2022,2024 Thomas E. Dickey
* Copyright 2007-2010,2017 Free Software Foundation, Inc.
*
* Permission is hereby granted, free of charge, to any person obtaining a
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
+ * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
*/
/*
    int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
    "Test input from screen using inch(), etc., in a moveable viewport.",
    ""
}
Index: test/inchs.c
Prereq: 1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000

```

```

@@ -1,5 +1,5 @@
/*****
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* Copyright 2007-2012,2017 Free Software Foundation, Inc.    *
*                                                              *
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charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.                                           *
*****/

/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
*
* Author: Thomas E Dickey
*/
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
    "Test input from screen using inch(), etc., in a moveable viewport.",
    ""
Index: test/ins_wide.c
Prereq: 1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2020,2022 Thomas E. Dickey                *
+ * Copyright
2020-2022,2024 Thomas E. Dickey                *
* Copyright 2002-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.                                           *
*****/

/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
*
* Demonstrate the wins_wstr() and wins_wch functions.
* Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@

```

```

static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
    const char *showstate;

Index: test/insdelln.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2019-2020,2022 Thomas E. Dickey                *
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 *                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                           *
 *****/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
    WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
        sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
    {
        "Basic commands:"
        , "Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c

```

Prereq: 1.34

--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

*

*

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp \$

*

* Demonstrate the winsstr() and winsch functions.

* Thomas Dickey - 2002/10/19

@@ -98,7 +98,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/knight.c

Prereq: 1.52

--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000

+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

*

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@@ -34,7 +34,7 @@

* Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995. Mouse support

* added September 20th 1995.

*

- * \$Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp \$

+ * \$Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp \$

*/


```

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+    int row, int column)
{
    if (doneSize <= 1)
    return (TRUE);
Index: test/list_keys.c
Prereq: 1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2022,2023 Thomas E. Dickey                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                *
 * Copyright 2016,2017 Free Software Foundation, Inc.        *
 *                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                           *
*****/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
        for (k = 0; k < count; ++k) {
-            TERMTYPE *term;
+            const TERMTYPE *term;
            set_curterm(terms[k]);
            term = (TERMTYPE *) cur_term;
            total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;

```

```

set_curterm(terms[k]);
if ((value = termname()) == NULL)
    failed("termname");
Index: test/move_field.c
Prereq: 1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
* authorization.
*
*****/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
*
* Demonstrate move_field().
*/
@@ -146,27 +146,27 @@
}

static FieldAttrs
*
my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

```

@@ -245,7 +245,7 @@

default:

}

@@ -275,9 +275,9 @@

```
/* display a status message to show what's happening */
```

static void

```
-show_status(FORM *form, FIELD *field)
```

*field)

{

```
- WINDOW *sub = form_sub(form);
```

```
+ NCURSES_CONST WINDOW *sub = form_sub(form);
```

int currow, curcol;

```
getyx(stdscr, currow, curcol);
```

Index: test/movewindow.c

Prereq: 1.54

```
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
```

@@ -1,5 +1,5 @@

/*****
 *****/

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@ @ -27,7 +27,7 @ @

* authorization. *

*****/

/ *

- * \$Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp \$

+ * \$Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp \$

✻

* Demonstrate move functions for windows and derived windows from the curses

* library.

@@ -135,7 +135,7 @@

*/

static PAIR *

```
selectcell(WINDOW *parent,
```

```

- WINDOW *child,
+ NCURSES_CONST WINDOW *child,
  int uli, int ulj,
  int lri, int lrj,
  bool relative,
@@ -252,7 +252,7 @@
  int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
  int min_line = (parent == stdscr) ? LINE_MIN : 0;
  int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
  bool result = FALSE;

  head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

```

```

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
  WINDOW *result = 0;
  int n = window2num(win);
@@ -435,7 +435,7 @@
  int max_col = top ? COL_MAX
: getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
  bool more;

  head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

```

```

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
  int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
  int max_col = top ? COL_MAX : getmaxx(parent);
  int min_line = top ? LINE_MIN : 0;
  int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;

```

bool more;

show_derwin(win);

Index: test/ncurses.c

Prereq: 1.538

--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000

+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000

@@ -1,5 +1,5 @@

/*****

- * Copyright 2018-2022,2023 Thomas E. Dickey *

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Thomas E. Dickey *

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@@ -41,7 +41,7 @@

Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993

Thomas E. Dickey (beginning revision 1.27 in 1996).

-\$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp \$

+\$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp \$

*****/

@@ -273,7 +273,7 @@

++x;

break;

default:

- if (!isprint(ch) || ch >= KEY_MIN) {

+ if (!isprint(UChar(ch)) || ch >= KEY_MIN) {

beep();

} else if ((int) strlen(buffer) < limit) {

int j;

@@ -928,7 +928,7 @@

/* at least Solaris SVR4 curses breaks unctrl(128), etc. */

c2 &= 0x7f;

#endif

- if (isprint(c))

+ if (isprint(UChar(c)))

(void)

wprintw(win, "%c", UChar(c));

else if (c2 != UChar(c))

(void) wprintw(win, "M-%s", unctrl(c2));

@@ -1693,7 +1693,7 @@

chtype extras = (chtype) ac;

if (UseColors) {

- NCURSES_PAIRS_T pair = 0;

```

+ NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
    pair = 1;
    if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
  for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
    int row = grid_top + (i / per_row) - base_row;
    int col = (i % per_row + 1) * width;
-   NCURSES_PAIRS_T pair = i;

    if ((i / per_row) > row_limit)
      break;
@@ -2355,6 +2354,7 @@
    if (row >= 0 && move(row, col) != ERR) {
      NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
      NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+   NCURSES_PAIRS_T pair = i;

    init_pair(pair, fg, bg);
    attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-   long i;
+   int i;

  int top = 0, width;
  int base_row = 0;
  int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
  /* show color names/numbers across the top */
  for (i = 0; i < per_row; i++) {
    show_color_name(top + 2,
-   ((int) i + 1) * width,
-   (int) i * zoom_size + MinColors,
+   (i + 1) * width,
+   i * zoom_size + MinColors,
    opt_wide,
    opt_zoom);
  }

  /* show a grid of colors, with color names/ numbers on the left */
  for (i = (base_row * per_row); i < pairs_max; i++) {
-   int row = grid_top + ((int) i / per_row) - base_row;
-   int col = ((int) i % per_row + 1) * width;
-   int pair = (int) i;
+   int row = grid_top + (i / per_row) - base_row;

```

```

+   int col = (i % per_row + 1) * width;
+   int pair = i;

    if ((i / per_row) > row_limit)
        break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-   char *s;
+   NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
    attr |= (test_attrs & A_ALTCHARSET);
    setcchar(dst, test_wch, attr, pair, NULL);
    }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-   pair ul, lr, *tmp;
+   pair ul, lr;
+   NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
case CTRL('X'): /* resize window */
    if (current) {

```

```

- pair *tmp, ul, lr;
+ NCURSES_CONST pair *tmp;
+ pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
*pan)
{
  WINDOW *win = panel_window(pan);
  const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
  WINDOW *win = panel_window(pan);
  const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
  int count;
  int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
  ITEM **items;
- ITEM *i, **p;
+ NCURSES_CONST ITEM *i;
+ ITEM **p;

  for (;;) {
    bool changed = FALSE;
@@ -6424,7 +6426,7 @@

    if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
    && nbuf > 0) {

```



```

- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
size_t have = (source ? strlen(source) : 0) + 1;
size_t need
= 80 + have;
char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
    _nc_STRNCPY(temp, source ? source : "", have + 1);
    len = (size_t) (char *) field_userptr(me);
    if (c <= KEY_MAX) {
- if (isgraph(c) && (len + 1) < sizeof(temp)) {
+ if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
        temp[len++] = (char) c;
        temp[len] = 0;
        set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
    }

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
- char *s = field_buffer(fld, 0);
+ NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
- FIELD *f[12], *secure;
+ FIELD *f[12];
+ NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)

```

```

+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
    switch ((otCOPY) flavor) {
        case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
        bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
        bool xterm_colors = FALSE;
-   char *palette_file = 0;
+   NCURSES_CONST char *palette_file = 0;
#endif

        setlocale(LC_ALL, "");
Index: test/padview.c
Prereq: 1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2019-2021,2022 Thomas E. Dickey                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                *
 * Copyright 2017 Free
Software Foundation, Inc.                *
*                                           *
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
*
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
*/

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
-   char *s = my_blob + 3;
+   const char *s = my_blob + 3;
    char *d = my_blob;
    Trace(("trim BOM"));
    do {
@@ -213,7 +213,7 @@
        for (k = 0; my_vec[k]; ++k) {
            char *s;
#if USE_WIDEC_SUPPORT
-   char *last = my_vec[k] + (int) strlen(my_vec[k]);

```

```

+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
wchar_t wch[2];
size_t rc;
#ifdef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =

{
"Commands:",
" q,^Q,ESC - quit this program",
@@ -532,7 +532,7 @@
beep();
break;
}
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
got_number = FALSE;
value = 0;
}
Index: test/parse_rgb.h
Prereq: 1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 1988, 2018, 2020 Thomas E. Dickey
+ * Copyright 1988, 2018, 2020, 2024 Thomas E. Dickey
*
* Permission is hereby granted, free of charge, to any person obtaining a
* copy of this software and associated documentation files (the
@@ -26,7 +26,7 @@
* authorization.
*
*****/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
*
* Sample implementation of ncurses RGB extension from user_caps(5).
*/
@@ -49,7 +49,7 @@
int bits;
int pwr2;
int r = 0, g = 0, b = 0;

```

```

- char *data;
+ const char *data;
char ch;

for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq: 1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018-2022,2023 Thomas E. Dickey                *
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 *
                                *
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@@ -27,7 +27,7 @@
 * authorization.                                           *
*****/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
        char *t = s;
- char *tc;
+ const char *tc;
        int num;
        char chr;
        int found = 0;
@@ -1374,8 +1374,8 @@
        int r, g, b, nocolor;
        float rf, gf, bf;
        unsigned check;
- char *t;
- char *s = t = strchr(buffer, '#');
+ char *s = strchr(buffer, '#');
+ const char *t = s;
        bool matched = FALSE;

        if (s != 0) {
@@ -1492,7 +1492,7 @@
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

```

```

static void
-dump_picture(PICS_HEAD
* pics)
+dump_picture(const PICS_HEAD * pics)
{
    int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
case 'x':
{
- char *s = optarg;
+ const char *s = optarg;
while (*s) {
    switch (*s++) {
        case 'p':
Index: test/popup_msg.c
Prereq: 1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
*
* Show a multi-line message in a window which may extend beyond the screen.
*
@@ -62,7 +62,7 @@
* Display a temporary window, e.g., to display a help-message.
*/
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
char *const *msg)
{
    int x0 = 4;
    int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

```

```

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
    (void) parent;
    (void) msg;
Index: test/popup_msg.h
Prereq: 1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2018,2020 Thomas E. Dickey                *
+ * Copyright 2018-2020,2024 Thomas E. Dickey            *
 * Copyright 2017 Free Software Foundation, Inc.         *
 *
    *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                         *
 *****/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq: 1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
+ * Copyright 2019-2020,2022 Thomas E. Dickey                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey            *
+ * Copyright 2000-2013,2017 Free Software Foundation, Inc.   *
+ *
    *

```

```

* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey - 2000
*
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
*
* A simple demo of the termcap interface.
*/
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-   char *base = string;
+   const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq: 1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
@@
* authorization.
*
*****/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
*/
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
    int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)

```

```

{
    MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
    MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
    MvAddCh(drop->y - 1, drop->x, '-');
    MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
}

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
    MvAddCh(drop->y - 2, drop->x, '-');
    MvAddStr(drop->y - 1, drop->x - 1, "/\\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
    MvAddCh(drop->y - 2, drop->x, ' ');
    MvAddStr(drop->y - 1, drop->x - 1, "  ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)

```



```

{
    data->func = func;
    data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " q/Q      exit the program",
Index: test/redraw.c
Prereq: 1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
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*
* Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
* authorization.
*****/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
*
* Demonstrate the redrawwin() and wredrawln() functions.
* Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " ^Q/ESC/q - quit",
Index: test/savescreen.c
Prereq:
1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@

```

```

/*****
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+ * Copyright 2018-2022,2024 Thomas E. Dickey          *
  * Copyright 2006-2017,2018 Free Software Foundation, Inc. *
  *
  * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
  * authorization.
*****/

/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
  *
  * Demonstrate save/restore functions
  from the curses library.
  * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
    int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
#endif
-    char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
    bool dumped = FALSE;

    if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "You are now in the screen-editor, which allows you to make some",
        "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =

```

```

+ static NCURSES_CONST char *msgs[] =
+ {
+     "You are now in the screen-loader, which allows you to view",
+     "the dumped/restored screens.",
+     @@ -286,7 +286,7 @@
+     bool replaying = FALSE;
+     bool done = FALSE;
+     char **files;
+
+     char *fill_by = 0;
+ }
+ NCURSES_CONST char *fill_by = 0;
+ #if USE_WIDEC_SUPPORT
+     cchar_t mycc;
+     static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq: 1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
    int lastbeep = -1;
    bool odd = FALSE;
    time_t tim;
- struct tm *t;
+ const struct tm *t;
    char szChar[20];
    char *text;
    short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq: 1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/*****
* Author: Thomas E. Dickey          1996-on          *
*****/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

```

```

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
size_t need = strlen(base) + 80; \
char *result = malloc(need); \
if (result != NULL) { \
@@ -916,8 +916,8 @@
* Workaround in case getcchar() returns a positive value when the source
* string produces only a L'\0'.
*/
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
NULL, NULL) > 0) { \
    wchar_t test_wch[CCHARW_MAX + 2]; \
    attr_t test_attrs; \
    NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq: 1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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*
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@@ -27,7 +27,7 @@
* authorization. *
*****/
/*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
*
* Demonstrate the waddwchstr() and wadd_wch functions.
* Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{

```

```
const char *showstate;
```

Index: test/test_addchstr.c

Prereq: 1.29

--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp \$

*

* Demonstrate the waddchstr() and waddch functions.

* Thomas Dickey - 2009/9/12

@@ -169,7 +169,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/test_addstr.c

Prereq: 1.20

--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000

@@ -1,5 +1,5 @@

/*****

-

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@@ -27,7 +27,7 @@

* authorization. *

*****/

/*

- * \$Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp \$

+ * \$Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp \$

*

* Demonstrate the waddstr() and waddch functions.

* Thomas Dickey - 2009/9/12

@@ -91,7 +91,7 @@

}

static int

-ColOf(char *buffer, int length, int margin)

+ColOf(const char *buffer, int length, int margin)

{

int n;

int result;

Index: test/test_addwstr.c

Prereq: 1.22

ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000

+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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*

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@@ -27,7 +27,7 @@

* authorization.

*

*****/

/*

- * \$Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp \$

+ * \$Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp \$

*

* Demonstrate the waddwstr() and wadd_wch

functions.

* Thomas Dickey - 2009/9/12

@@ -82,7 +82,7 @@

static int n_opt = -1;

static void

-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)

+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)

{

const char *showstate;

Index: test/test_endwin.c

Prereq: 1.2

--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000

+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000

```

@@ -1,5 +1,5 @@
/*****

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*
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* copy of this software and associated documentation files (the
@@ -26,7 +26,7 @@
* authorization.
*****/

/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
*/
#include <test.priv.h>

@@ -67,7 +67,7 @@
    int rc_e1 = OK;
    int rc_e2 = OK;
    int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
    bool opt_e = FALSE;
    bool opt_i = FALSE;
    bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq: 1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/*****

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*
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@@ -27,7 +27,7 @@
* authorization.
*****/

/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -69,7 +69,7 @@
}

```

```

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
        "Commands:",
        " q,^Q,ESC      - quit this program",
Index: test/test_getstr.c
Prereq:
    1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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 * Copyright 2007-2012,2017 Free Software Foundation, Inc.    *
 *                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a *
@@ -27,7 +27,7 @@
 * authorization.                                             *
 *****/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
    int result = getmaxx(txtwin) - getcurx(txtwin);
    return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int

```



```

recursive_test(int level, char **argv, WINDOW *strwin)
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
    {
    "Commands:",
    " q,^Q,ESC      - quit this program",
Index: test/test_instr.c
Prereq: 1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -56,13 +56,13 @@
}

static
void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
- static const char *msgs[] =
+ static NCURSES_CONST char *msgs[] =
    {
    "Show file contents and a viewport from the variants of winstr."
    ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq: 1.9

```

```

--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
* authorization.
*
*****/
/*
- * $Id: test_inwstr.c,v
1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
*
* Author: Thomas E Dickey
*
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
    (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
        "Show file contents and a viewport from the variants of winwstr."
        , "Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq: 1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
* THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
*
*****/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $

```

```

*
* Author: Leonid S Usov
*
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-   char *xtermcap;
+   const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/*****
- * Copyright 2020-2021,2022 Thomas E. Dickey          *
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 *
                                *
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@@ -27,7 +27,7 @@
 * authorization.                                *
 *****/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
    return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
    return (15 * (cell / getmaxy(stswin)));
}

```

```

}
Index: test/test_sgr.c
Prereq: 1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-
* Copyright 2019-2022,2023 Thomas E. Dickey                *
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* Copyright 2015-2016,2017 Free Software Foundation, Inc.    *
*                                                              *
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@@ -30,7 +30,7 @@
/*
* Author: Thomas E. Dickey
*
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
*
* A simple demo of the sgr/sgr0 terminal capabilities.
*/
@@ -142,10 +142,10 @@
#define MASK_REV (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
- static const char sample[] = "abcdefghijklm";
- static
char params[] = "SURBDBIPA";
+ static NCURSES_CONST char sample[] = "abcdefghijklm";
+ static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
- unsigned count;
- char *my_sgr;
- char *my_sgr0;
- char *my_bold;
- char *my_revs;
- char *my_smso;
+ NCURSES_CONST char *my_sgr;

```

```

+  NCURSES_CONST char *my_sgr0;
+  NCURSES_CONST char *my_bold;
+  NCURSES_CONST char *my_revs;
+  NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
    unsigned ignore = 0;
    unsigned reason = 0;
    unsigned repeat = 0;
+ unsigned count;
    for (count = 0; count < MAXSGR; ++count) {
        values[count] = tparm(my_sgr,
            BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-   char *name;
+   const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
switch (ch)
{
@@ -369,7 +369,7 @@
        } else if ((name = getenv("TERM")) != 0) {
brute_force(name);
        } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
brute_force(dumb);
        }

```

Index: test/test_tparm.c

Prereq: 1.39

--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000

+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000

@@ -1,5 +1,5 @@

/*****

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@@ -29,7 +29,7 @@

/*

* Author: Thomas E. Dickey

```

*
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
*
* Exercise tparm/tparm, either for all possible capabilities with fixed
* parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
    char *next = 0;
    long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
    char *use_strings[MAX_PARM];
    char *result = NULL;
@@ -527,7 +527,7 @@
}
} else {
    char *s = t_opt;
-   char *t;
+   NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
        s = 0;
        if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
-   TERMTYPE *term =
+   (TERMTYPE *) cur_term;
+   NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
        GrowArray(all_caps, max_caps, len_caps);
        GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000

```

```

@@ -1,5 +1,5 @@
/*****
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@@ -27,7 +27,7 @@
* authorization.
*
*****/

/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
*
* Demonstrate the vidputs and vidattr functions.
* Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
        tputs(s, 1, outc);
Index: test/testcurs.c
Prereq: 1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
* wrs(5/28/93) -- modified to be consistent (perform identically) with either
*
*
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
*/

#include <test.priv.h>
@@ -245,7 +245,7 @@
wclrtoobot(win);
if (c >= KEY_MIN)
    wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));

```

```

@@ -748,8 +748,8 @@
keypad(stdscr, TRUE);
raw();
key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-   if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+   if (islower(UChar(key)))
    key = toupper(key);
    for (n = 0; n < MAX_OPTIONS; ++n) {
    if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq: 1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/*****
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@@ -30,7 +30,7 @@
* Date: 1997/03/17
* From: bayern@morpheus.cis.yale.edu
*
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
*/
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace	TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
    if (isdigit(UChar(*token)))
        move(atoi(token), 0);
    else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq: 1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/*****
-

```



```

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@@ -52,7 +52,7 @@
* scroll operation worked, and the refresh() code only had to do a
* partial repaint.
*
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
*/

```

```

#include <test.priv.h>
@@ -93,8 +93,7 @@

```

```

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
    int len = wwidth(test_wch[0]);
    result += (len > 0) ? len : 1;
    ++src;
@@ -186,12 +185,10 @@
    */
    {
    int j;
- int width = 1;
+ int width;

```

```

    for (j = actual = 0; j < shift; ++j) {
- int count;
-
-
    TEST_CCHAR(s + j, count, {
+ TEST_CCHAR(s + j, {
    width = wwidth(test_wch[0]);
    }
    , {
@@ -294,7 +291,7 @@

```

```

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
    char *d = my_blob;
    Trace(("trim BOM"));

```

```

do {
@@ -329,7 +326,7 @@
char *s;
int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
wchar_t wch[2];
size_t rc;
#ifdef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
- static const char *help[] =
+ static NCURSES_CONST char *help[] =
{
"Commands:",
" q,^Q,ESC - quit this program",
@@ -659,7 +656,7 @@
beep();
break;
}
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
got_number = FALSE;
value = 0;
}

```

Found in path(s):

* /ncurses-6.5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.545 py3-pip-pyc 24.3.1-r0

1.545.1 Available under license :

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=====

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

	from		compatible? (1)	
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF				yes

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities

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Any

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1.547 skalibs-libs 2.14.3.0-r0

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1.548 py3-parsing-pyc 3.1.4-r0

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1.549 zstd 1.5.6-r2

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```
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```

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1.553 libproc2 4.0.4-r2

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1.561 multierr 1.6.0

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1.562 zap-exp 1.24.0

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1.563 json 0.0.0-20221116044647-bc3834ca7abd

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1.564 kubernetes-yaml 1.3.0

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1.566 x-sync 0.8.0

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1.567 kubernetes-utils 0.0.0-20230726121419-3b25d923346b

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1.568 jsonreference 0.20.2

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1.569 protobuf-go 1.34.2

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1.571 swag 0.22.4

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1.572 otel-metric 1.28.0

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1.574 protobuf 1.5.4

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1.575 gnostic-models 0.6.8

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1.576 circl 1.3.7

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1.577 stdr 1.2.2

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1.578 colorama 0.4.6

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1.579 go-crypto 0.0.0-20230828082145- 3c4c8a2d2371

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1.580 multierr 1.11.0

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1.582 idna 3.3

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1.583 cffi 1.15.0

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1.584 go-metrics 0.4.1

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1.585 go-grpc-middleware 1.4.0

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1.586 zap-exp 1.17.0

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1.589 zap-exp 1.26.0

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1.591 zipkin-go 0.4.3

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1.596 distlib 0.3.9

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====
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=====

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distlib has started off using some of the code from distutil2.

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- David Barnett
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- Anthony Baxter
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1.597 platformdirs 3.8.1

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to

CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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=====
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=====

The Distutils2 project was started by Tarek Ziad and is currently
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
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1.614 x-errors 0.0.0-20231012003039-104605ab7028

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1.616 pgproto3 2.3.3

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1.617 contrib-instrumentation- google.golang.org-grpc-otelgrpc 0.49.0

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1.627 etcd-api 3.5.16

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 */
```

Found in path(s):

```
* /asm-1-0-2-sources-zip/net/minidev/asm/Accessor.java
* /asm-1-0-2-sources-zip/net/minidev/asm/ASMUtil.java
* /asm-1-0-2-sources-zip/net/minidev/asm/BeansAccess.java
* /asm-1-0-2-sources-zip/net/minidev/asm/DynamicClassLoader.java
```

1.629 go-contrack 0.0.0-20190716064945-2f068394615f

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Network Working Group P. Mockapetris
Request for Comments: 1035 ISI
November 1987
Obsoletes: RFCs 882, 883, 973

DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION

1. STATUS OF THIS MEMO

This RFC describes the details of the domain system and protocol, and assumes that the reader is familiar with the concepts discussed in a companion RFC, "Domain Names - Concepts and Facilities" [RFC-1034].

The domain system is a mixture of functions and data types which are an official protocol and functions and data types which are still experimental. Since the domain system is intentionally extensible, new data types and experimental behavior should always be expected in parts of the system beyond the official protocol. The official protocol parts include standard queries, responses and the Internet class RR data formats (e.g., host addresses). Since the previous RFC set, several definitions have changed, so some previous definitions are obsolete.

Experimental or obsolete features are clearly marked in these RFCs, and such information should be used with caution.

The reader is especially cautioned not to depend on the values which

appear in examples to be current or complete, since their purpose is primarily pedagogical. Distribution of this memo is unlimited.

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2. INTRODUCTION

2.1. Overview

The goal of domain names is to provide a mechanism for naming resources in such a way that the names are usable in different hosts, networks, protocol families, internets, and administrative organizations.

From the user's point of view, domain names are useful as arguments to a local agent, called a resolver, which retrieves information associated with the domain name. Thus a user might ask for the host address or mail information associated with a particular domain name. To enable the user to request a particular type of information, an appropriate query type is passed to the resolver with the domain name. To the user, the domain tree is a single information space; the resolver is responsible for hiding the distribution of data among name servers from the user.

From the resolver's point of view, the database that makes up the domain space is distributed among various name servers. Different parts of the domain space are stored in different name servers, although a particular data item will be stored redundantly in two or more name servers. The resolver starts with knowledge of at least one name server. When the resolver processes a user query it asks a known name server for the information; in return, the resolver either receives the desired information or a referral to another name server. Using these referrals, resolvers learn the identities and contents of other name servers. Resolvers are responsible for dealing with the distribution of the domain space and dealing with the effects of name server failure by consulting redundant databases in other servers.

Name servers manage two kinds of data. The first kind of data held in sets called zones; each zone is the complete database for a particular "pruned" subtree of the domain space. This data is called authoritative. A name server periodically checks to make sure that its zones are up to date, and if not, obtains a new copy of updated zones

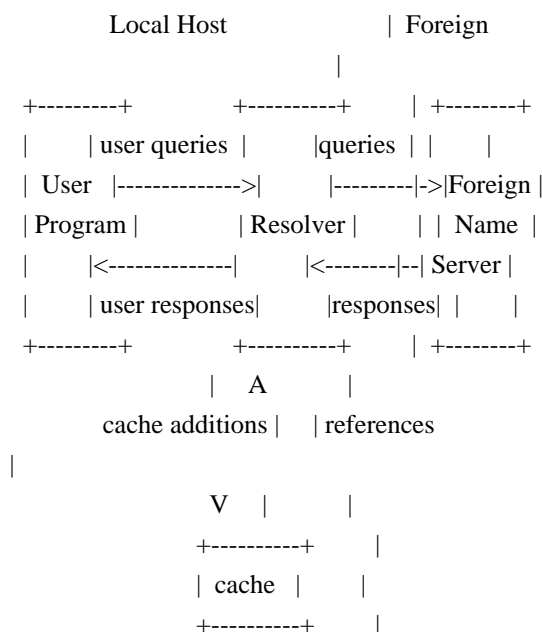
from master files stored locally or in another name server. The second kind of data is cached data which was acquired by a local resolver. This data may be incomplete, but improves the performance of the retrieval process when non-local data is repeatedly accessed. Cached data is eventually discarded by a timeout mechanism.

This functional structure isolates the problems of user interface, failure recovery, and distribution in the resolvers and isolates the database update and refresh problems in the name servers.

2.2. Common configurations

A

host can participate in the domain name system in a number of ways, depending on whether the host runs programs that retrieve information from the domain system, name servers that answer queries from other hosts, or various combinations of both functions. The simplest, and perhaps most typical, configuration is shown below:



User programs interact with the domain name space through resolvers; the format of user queries and user responses is specific to the host and its operating system. User queries will typically be operating system calls, and the resolver and its cache will be part of the host operating system. Less capable hosts may choose to implement the resolver as a subroutine to be linked in with every program that needs its services. Resolvers answer user queries with information they acquire via queries to foreign name servers and the local cache.

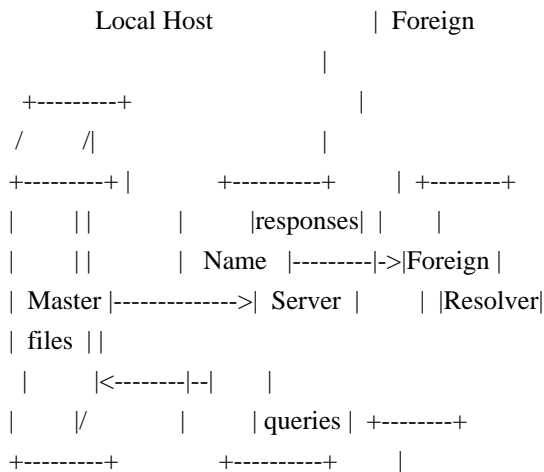
Note that the resolver may have to make several queries to several different foreign name servers to answer a particular user query, and hence the resolution of a user query may involve several network accesses and an arbitrary amount of time. The queries to foreign name servers and the corresponding responses have a standard format described

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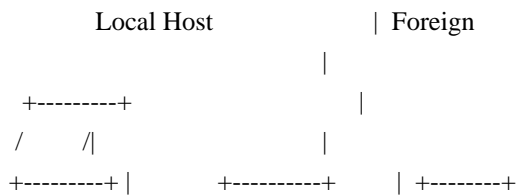
in this memo, and may be datagrams.

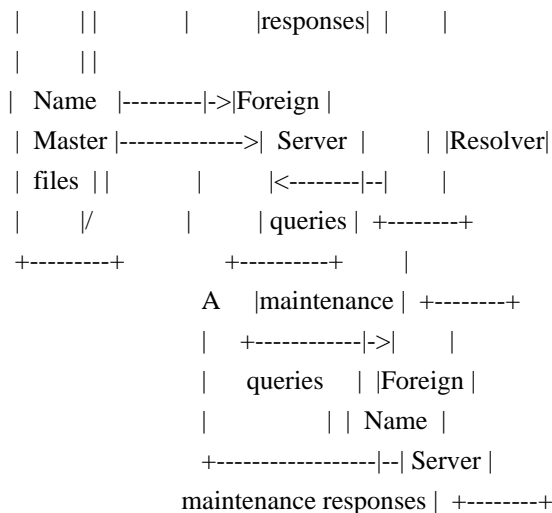
Depending on its capabilities, a name server could be a stand alone program on a dedicated machine or a process or processes on a large timeshared host. A simple configuration might be:



Here a primary name server acquires information about one or more zones by reading master files from its local file system, and answers queries about those zones that arrive from foreign resolvers.

The DNS requires that all zones be redundantly supported by more than one name server. Designated secondary servers can acquire zones and check for updates from the primary server using the zone transfer protocol of the DNS. This configuration is shown below:





In this configuration, the name server periodically establishes a virtual circuit to a foreign name server to acquire a copy of a zone or to check that an existing copy has not changed. The messages sent for

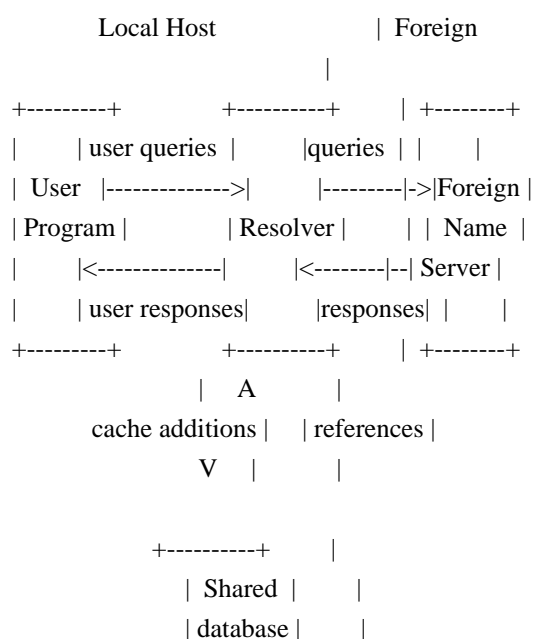
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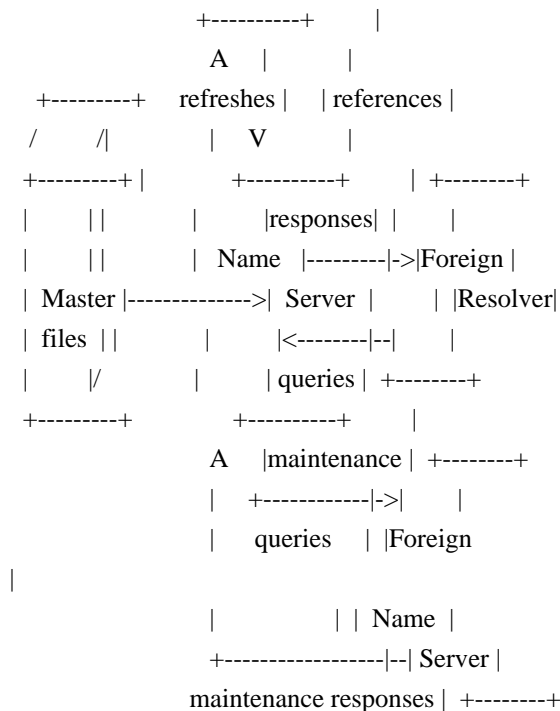
[Page 5]

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and Specification November 1987

these maintenance activities follow the same form as queries and responses, but the message sequences are somewhat different.

The information flow in a host that supports all aspects of the domain name system is shown below:





The shared database holds domain space data for the local name server and resolver. The contents of the shared database will typically be a mixture of authoritative data maintained by the periodic refresh operations of the name server and cached data from previous resolver requests. The structure of the domain data and the necessity for synchronization between name servers and resolvers imply the general characteristics of this database, but the actual format is up to the local implementor.

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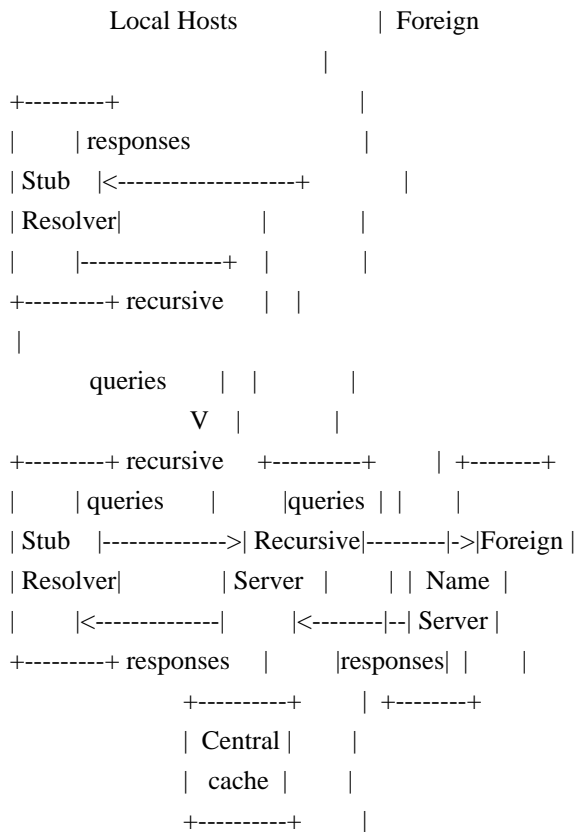
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Information flow can also be tailored so that a group of hosts act together to optimize activities. Sometimes this is done to offload less capable hosts

so that they do not have to implement a full resolver.

This can be appropriate for PCs or hosts which want to minimize the amount of new network code which is required. This scheme can also allow a group of hosts can share a small number of caches rather than maintaining a large number of separate caches, on the premise that the centralized caches will have a higher hit ratio. In either case, resolvers are replaced with stub resolvers which act as front ends to resolvers located in a recursive server in one or more name servers known to perform that service:



In any case, note that domain components are always replicated for reliability whenever possible.

2.3. Conventions

The domain system has several conventions dealing with low-level, but fundamental, issues. While the implementor is free to violate these conventions WITHIN

HIS OWN SYSTEM, he must observe these conventions in ALL behavior observed from other hosts.

2.3.1. Preferred name syntax

The DNS specifications attempt to be as general as possible in the rules for constructing domain names. The idea is that the name of any existing object can be expressed as a domain name with minimal changes.

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However, when assigning a domain name for an object, the prudent user

will select a name which satisfies both the rules of the domain system and any existing rules for the object, whether these rules are published or implied by existing programs.

For example, when naming a mail domain, the user should satisfy both the rules of this memo and those in RFC-822. When creating a new host name, the old rules for HOSTS.TXT should be followed. This avoids problems when old software is converted to use domain names.

The following syntax will result in fewer problems with many applications that use domain names (e.g., mail, TELNET).

<domain> ::= <subdomain> | " "

<subdomain> ::= <label> | <subdomain> "." <label>

<label> ::= <letter> [[<ldh-str>] <let-dig>]

<ldh-str> ::= <let-dig-hyp> | <let-dig-hyp> <ldh-str>

<let-dig-hyp> ::= <let-dig> | "-"

<let-dig> ::= <letter> | <digit>

<letter> ::= any one of the 52 alphabetic characters A through Z in upper case and a through z in lower case

<digit> ::= any one of the ten digits 0 through 9

Note that while upper and lower case letters are allowed in domain names, no significance is attached to the case. That is, two names with the same spelling but different case are to be treated as if identical.

The labels must follow the rules for ARPANET host names. They must start with a letter, end with a letter or digit, and have as interior characters only letters, digits, and hyphen. There are also some restrictions on the length. Labels must be 63 characters or less.

For example, the following strings identify hosts in the Internet:

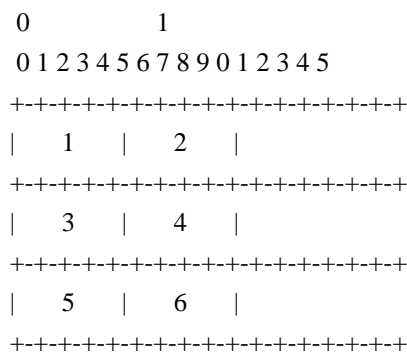
A.ISI.EDU XX.LCS.MIT.EDU SRI-NIC.ARPA

2.3.2. Data Transmission Order

The order of transmission of the header and data described in this

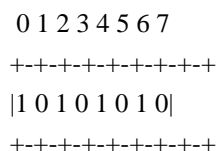
document is resolved to the octet level. Whenever a diagram shows a

group of octets, the order of transmission of those octets is the normal order in which they are read in English. For example, in the following diagram, the octets are transmitted in the order they are numbered.



Whenever

an octet represents a numeric quantity, the left most bit in the diagram is the high order or most significant bit. That is, the bit labeled 0 is the most significant bit. For example, the following diagram represents the value 170 (decimal).



Similarly, whenever a multi-octet field represents a numeric quantity the left most bit of the whole field is the most significant bit. When a multi-octet quantity is transmitted the most significant octet is transmitted first.

2.3.3. Character Case

For all parts of the DNS that are part of the official protocol, all comparisons between character strings (e.g., labels, domain names, etc.) are done in a case-insensitive manner. At present, this rule is in force throughout the domain system without exception. However, future additions beyond current usage may need to use the full binary octet capabilities in names, so attempts to store domain names

in 7-bit ASCII
or use of special bytes to terminate labels, etc., should be avoided.

When data enters the domain system, its original case should be preserved whenever possible. In certain circumstances this cannot be done. For example, if two RRs are stored in a database, one at x.y and one at X.Y, they are actually stored at the same place in the database, and hence only one casing would be preserved. The basic rule is that case can be discarded only when data is used to define structure in a database, and two names are identical when compared in a case insensitive manner.

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Loss of case sensitive data must be minimized. Thus while data for x.y and X.Y may both be stored under a single location x.y or X.Y, data for a.x and B.X would never be stored under A.x, A.X, b.x, or b.X. In general, this preserves the case of the first label of a domain name, but forces standardization of interior node labels.

Systems administrators who enter data into the domain database should take care to represent the data they supply to the domain system in a case-consistent manner if their system is case-sensitive. The data distribution system in the domain system will ensure that consistent representations are preserved.

2.3.4. Size limits

Various objects and parameters in the DNS have size limits. They are listed below. Some could be easily changed, others are more fundamental.

labels 63 octets or less

names 255 octets or less

TTL positive values of a signed 32 bit number.

UDP messages 512 octets or less

3. DOMAIN NAME SPACE AND RR DEFINITIONS

3.1. Name space definitions

Domain names in messages are expressed in terms of a sequence of labels. Each label is represented as a one octet length field followed by that number of octets. Since every domain name ends with the null label of the root, a domain name is terminated by a length byte of zero. The high order two bits of every length octet must be zero, and the remaining six bits of the length field limit the label to 63 octets or less.

To simplify implementations, the total length of a domain name (i.e., label octets and label length octets) is restricted to 255 octets or less.

Although labels can contain any 8 bit values in octets that make up a label, it is strongly recommended that labels follow the preferred syntax described elsewhere in this memo, which is compatible with existing host naming conventions. Name servers and resolvers must compare labels in a case-insensitive manner (i.e., A=a), assuming ASCII with zero parity. Non-alphabetic codes must match exactly.

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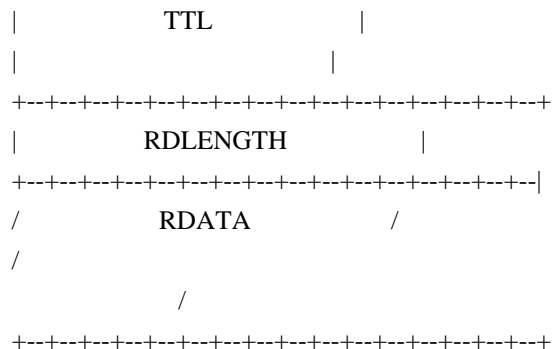
3.2. RR definitions

3.2.1. Format

All RRs have the same top level format shown below:

```

      1 1 1 1 1 1
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                                     |
/                                     /
/          NAME                      /
|                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          TYPE                      |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          CLASS                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
```



where:

NAME an owner name, i.e., the name of the node to which this resource record pertains.

TYPE two octets containing one of the RR TYPE codes.

CLASS two octets containing one of the RR CLASS codes.

TTL a 32 bit signed integer that specifies the time interval that the resource record may be cached before the source of the information should again be consulted. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached. For example, SOA records are always distributed with a zero TTL to prohibit caching. Zero values can also be used for extremely volatile data.

RDLENGTH an unsigned 16 bit integer that specifies the length in octets of the RDATA field.

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RDATA a variable length string of octets that describes the resource. The format of this information varies according to the TYPE and CLASS of the resource record.

3.2.2. TYPE values

TYPE fields are used in resource records. Note that these types are a subset of QTYPEs.

TYPE	value and meaning
A	1 a host address
NS	2 an authoritative name server
MD	3 a mail destination (Obsolete - use MX)
MF	4 a mail forwarder (Obsolete - use MX)
CNAME	5 the canonical name for an alias
SOA	6 marks the start of a zone of authority
MB	7 a mailbox domain name (EXPERIMENTAL)
MG	8 a mail group member (EXPERIMENTAL)
MR	9 a mail rename domain name (EXPERIMENTAL)
NULL	10 a null RR (EXPERIMENTAL)
WKS	11 a well known service description
PTR	12 a domain name pointer
HINFO	13 host information
MINFO	14 mailbox or mail list information
MX	15 mail exchange
TXT	16 text strings

3.2.3. QTYPE values

QTYPE fields appear in the question part of a query. QTYPES are a superset of TYPEs, hence all TYPEs are valid QTYPES. In addition, the following QTYPES are defined:

AXFR	252 A request for a transfer of an entire zone
MAILB	253 A request for mailbox-related records (MB, MG or MR)
MAILA	254 A request for mail agent RRs (Obsolete - see MX)
*	255 A request for all records

3.2.4. CLASS values

CLASS fields appear in resource records. The following CLASS mnemonics and values are defined:

IN	1 the Internet
CS	2 the CSNET class (Obsolete - used only for examples in some obsolete RFCs)
CH	3 the CHAOS class
HS	4 Hesiod [Dyer 87]

3.2.5. QCLASS values

QCLASS fields appear in the question section of a query. QCLASS values are a superset of CLASS values; every CLASS is a valid QCLASS. In addition to CLASS values, the following QCLASSES are defined:

*	255 any class
---	---------------

3.3. Standard RRs

The following RR definitions are expected to occur, at least potentially, in all classes. In particular, NS, SOA, CNAME, and PTR will be used in all classes, and have the same format in all classes. Because their RDATA format is known, all domain names in the RDATA section of these RRs may be compressed.

<domain-name> is a domain name represented as a series of labels, and terminated by a label with zero length. <character-string> is a single length octet followed by that number of characters. <character-string> is treated as binary information, and can be up to 256 characters in length (including the length octet).

3.3.1. CNAME RDATA format

```

+-----+
/          CNAME          /
/                          /
+-----+

```

where:

CNAME A <domain-name> which specifies the canonical or primary name for the owner. The owner name is an alias.

CNAME RRs cause no additional section processing, but name servers may choose to restart the query at the canonical name in certain cases. See the description of name server logic in [RFC-1034] for details.

3.3.2. HINFO RDATA format

```

+-----+
/          CPU
/
+-----+
/          OS          /
+-----+

```

where:

CPU A <character-string> which specifies the CPU type.

OS A <character-string> which specifies the operating system type.

Standard values for CPU and OS can be found in [RFC-1010].

HINFO records are used to acquire general information about a host. The main use is for protocols such as FTP that can use special procedures when talking between machines or operating systems of the same type.

3.3.3. MB RDATA format (EXPERIMENTAL)

```
+-----+
/          MADNAME          /
/                               /
+-----+
```

where:

MADNAME A <domain-name> which specifies a host which has the
 specified mailbox.

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MB records cause additional section processing which looks up an A type
RRs corresponding to MADNAME.

3.3.4. MD RDATA format (Obsolete)

```
+-----+
/          MADNAME          /
/                               /
+-----+
```

where:

MADNAME A <domain-name> which specifies a host which has a mail
 agent for the domain which should be able to deliver
 mail for the domain.

MD records cause additional section processing which looks up an A type
record corresponding to MADNAME.

MD is obsolete. See the definition of MX and [RFC-974] for details of
the new scheme. The recommended policy for dealing with MD RRs found in
a master file is to reject them, or to convert them to MX RRs with
a
preference of 0.

3.3.5. MF RDATA format (Obsolete)

```

+-----+
/      MADNAME      /
/                  /
+-----+

```

where:

MADNAME A <domain-name> which specifies a host which has a mail agent for the domain which will accept mail for forwarding to the domain.

MF records cause additional section processing which looks up an A type record corresponding to MADNAME.

MF is obsolete. See the definition of MX and [RFC-974] for details of the new scheme. The recommended policy for dealing with MD RRs found in a master file is to reject them, or to convert them to MX RRs with a preference of 10.

3.3.6. MG RDATA format (EXPERIMENTAL)

```

+-----+
/      MGMNAME      /
/                  /
+-----+

```

where:

MGMNAME A <domain-name> which specifies a mailbox which is a member of the mail group specified by the domain name.

MG records cause no additional section processing.

3.3.7. MINFO RDATA format (EXPERIMENTAL)

```

+-----+
/      RMAILBX      /

```

```

+-----+
/      EMAILBX      /
+-----+

```

where:

RMAILBX A <domain-name> which specifies a mailbox which is responsible for the mailing list or mailbox. If this domain name names the root, the owner of the MINFO RR is responsible for itself. Note that many existing mailing lists use a mailbox X-request for the RMAILBX field of mailing list X, e.g., Msgroup-request for Msgroup. This field provides a more general mechanism.

EMAILBX A <domain-name> which specifies a mailbox which is to receive error messages related to the mailing list or mailbox specified by the owner of the MINFO RR (similar to the ERRORS-TO: field which has been proposed). If this domain name names the root, errors should be returned to the sender of the message.

MINFO records cause no additional section processing. Although these records can be associated with a simple mailbox, they are usually used with a mailing list.

3.3.8. MR RDATA format (EXPERIMENTAL)

```

+-----+
/      NEWNAME      /
/
+-----+

```

where:

NEWNAME A <domain-name> which specifies a mailbox which is the proper rename of the specified mailbox.

MR records cause no additional section processing. The main use for MR is as a forwarding entry for a user who has moved to a different mailbox.

3.3.9. MX RDATA format

```
+-----+
|           PREFERENCE           |
+-----+
/           EXCHANGE             /
/                               /
+-----+
```

where:

PREFERENCE A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

EXCHANGE A <domain-name> which specifies a host willing to act as a mail exchange for the owner name.

MX records cause type A additional section processing for the host specified by EXCHANGE. The use of MX RRs is explained in detail in [RFC-974].

3.3.10. NULL RDATA format (EXPERIMENTAL)

```
+-----+
/           <anything>           /
/                               /
+-----+
```

Anything at all may be in the RDATA field so long as it is 65535 octets or less.

NULL records cause no additional section processing. NULL RRs are not allowed in master files. NULLs are used as placeholders in some experimental extensions of the DNS.

3.3.11. NS RDATA format

```
+-----+
/          NSDNAME          /
/                               /
+-----+
```

where:

NSDNAME A <domain-name> which specifies a host which should be authoritative for the specified class and domain.

NS records cause both the usual additional section processing to locate a type A record, and, when used in a referral, a special search of the zone in which they reside for glue information.

The NS RR states that the named host should be expected to have a zone starting at owner name of the specified class. Note that the class may not indicate the protocol family which should be used to communicate with the host, although it is typically a strong hint. For example, hosts which are name servers for either Internet (IN) or Hesiod (HS) class information are normally queried using IN class protocols.

3.3.12. PTR RDATA format

```
+-----+
/          PTRDNAME          /
+-----+
```

where:

PTRDNAME A <domain-name> which points to some location in the domain name space.

PTR records cause no additional section processing. These RRs are used in special domains to point to some other location in the domain space. These records are simple data, and don't imply any special processing similar to that performed by CNAME, which identifies aliases. See the description of the IN-ADDR.ARPA domain for an example.

3.3.13. SOA RDATA format

```

+-----+
/          MNAME          /
/                               /
+-----+
/
          RNAME          /
+-----+
|          SERIAL          |
|                               |
+-----+
|          REFRESH          |
|                               |
+-----+
|          RETRY           |
|                               |
+-----+
|          EXPIRE           |
|                               |
+-----+
|          MINIMUM          |
|                               |
+-----+

```

where:

MNAME The <domain-name> of the name server that was the original or primary source of data for this zone.

RNAME A <domain-name> which specifies the mailbox of the person responsible for this zone.

SERIAL The unsigned 32 bit version number of the original copy of the zone. Zone transfers preserve this value. This value wraps and should be compared using sequence space arithmetic.

REFRESH A 32 bit time interval before the zone should be

refreshed.

RETRY A 32 bit time interval that should elapse before a failed refresh should be retried.

EXPIRE A 32 bit time value that specifies the upper limit on the time interval that can elapse before the zone is no longer authoritative.

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MINIMUM The unsigned 32 bit minimum TTL field that should be exported with any RR from this zone.

SOA records cause no additional section processing.

All times are in units of seconds.

Most of these fields are pertinent only for name server maintenance operations. However, **MINIMUM** is used in all query operations that retrieve RRs from a zone. Whenever a RR is sent in a response to a query, the TTL field is set to the maximum of the TTL field from the RR and the **MINIMUM** field in the appropriate SOA. Thus **MINIMUM** is a lower bound on the TTL field for all RRs in a zone. Note that this use of **MINIMUM** should occur when the RRs are copied into the response and not when the zone is loaded from a master file or via a zone transfer. The reason for this provision is to allow future dynamic update facilities to change the SOA RR with known semantics.

3.3.14. TXT RDATA format

```
+-----+
/          TXT-DATA          \
+-----+
```

where:

TXT-DATA

One or more <character-string>s.

TXT RRs are used to hold descriptive text. The semantics of the text depends on the domain where it is found.

3.4. Internet specific RRs

3.4.1. A RDATA format

```
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|           ADDRESS           |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
```

where:

ADDRESS A 32 bit Internet address.

Hosts that have multiple Internet addresses will have multiple A records.

A records cause no additional section processing. The RDATA section of an A line in a master file is an Internet address expressed as four decimal numbers separated by dots without any imbedded spaces (e.g., "10.2.0.52" or "192.0.5.6").

3.4.2. WKS RDATA format

```
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|           ADDRESS           |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|   PROTOCOL   |           |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|           |           |
/           <BIT MAP>      /
/           /
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
```

where:

ADDRESS An 32 bit Internet address

PROTOCOL An 8 bit IP protocol number

<BIT MAP> A variable length bit map. The bit map must be a multiple of 8 bits long.

The WKS record is used to describe the well known services supported by a particular protocol on a particular internet address. The PROTOCOL field specifies an IP protocol number, and the bit map has one bit per port of the specified protocol. The first bit corresponds to port 0, the second to port 1, etc. If the bit map does not include a bit for a protocol of interest, that bit is assumed zero. The appropriate values and mnemonics for ports and protocols are specified in [RFC-1010].

For example, if PROTOCOL=TCP (6), the 26th bit corresponds to TCP port 25 (SMTP). If this bit is set, a SMTP server should be listening on TCP port 25; if zero, SMTP service is not supported on the specified address.

The purpose of WKS RRs is to provide availability information for servers for TCP and UDP. If a server supports both TCP and UDP, or has multiple Internet addresses, then multiple WKS RRs are used.

WKS RRs cause no additional section processing.

In master files, both ports and protocols are expressed using mnemonics or decimal numbers.

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3.5. IN-ADDR.ARPA domain

The Internet uses a special domain to support gateway location and Internet address to host mapping. Other classes may employ a similar strategy in other domains. The intent of this domain is to provide a guaranteed method to perform host address to host name mapping, and to facilitate queries to locate all gateways on a particular network in the Internet.

Note that both of these services are similar to functions that could be performed by inverse queries; the difference is that this part of the domain name space is structured according to address, and hence can guarantee that the appropriate data can be located without an exhaustive search of the domain space.

The domain begins at IN-ADDR.ARPA and has a substructure which follows the Internet addressing structure.

Domain names in the IN-ADDR.ARPA domain are defined to have up to four labels in addition to the IN-ADDR.ARPA suffix. Each label represents one octet of an Internet address, and is expressed as a character string for a decimal value in the range 0-255 (with leading zeros omitted except in the case of a zero octet which is represented by a single zero).

Host addresses are represented by domain names that have all four labels specified. Thus data for Internet address 10.2.0.52 is located at domain name 52.0.2.10.IN-ADDR.ARPA. The reversal, though awkward to read, allows zones to be delegated which are exactly one network of address space. For example, 10.IN-ADDR.ARPA can be a zone containing data for the ARPANET, while 26.IN-ADDR.ARPA can be a separate zone for MILNET. Address nodes are used to hold pointers to primary host names in the normal domain space.

Network numbers correspond to some non-terminal nodes at various depths in the IN-ADDR.ARPA domain, since Internet network numbers are either 1, 2, or 3 octets. Network nodes are used to hold pointers to the primary host names of gateways attached to that network. Since a gateway is, by definition, on more than one network, it will typically have two or more network nodes which point at it. Gateways will also have host level pointers at their fully qualified addresses.

Both the gateway pointers at network nodes and the normal host pointers at full address nodes use the PTR RR to point back to the primary domain names of the corresponding hosts.

For example, the IN-ADDR.ARPA domain will contain information about the ISI gateway between net 10 and 26, an MIT gateway from net 10 to MIT's

net 18, and hosts A.ISI.EDU and MULTICS.MIT.EDU. Assuming that ISI gateway has addresses 10.2.0.22 and 26.0.0.103, and a name MILNET-GW.ISI.EDU, and the MIT gateway has addresses 10.0.0.77 and 18.10.0.4 and a name GW.LCS.MIT.EDU, the domain database would contain:

```
10.IN-ADDR.ARPA.    PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
18.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
26.IN-ADDR.ARPA.    PTR MILNET-GW.ISI.EDU.
22.0.2.10.IN-ADDR.ARPA.
PTR MILNET-GW.ISI.EDU.
103.0.0.26.IN-ADDR.ARPA. PTR MILNET-GW.ISI.EDU.
77.0.0.10.IN-ADDR.ARPA. PTR GW.LCS.MIT.EDU.
4.0.10.18.IN-ADDR.ARPA. PTR GW.LCS.MIT.EDU.
103.0.3.26.IN-ADDR.ARPA. PTR A.ISI.EDU.
6.0.0.10.IN-ADDR.ARPA. PTR MULTICS.MIT.EDU.
```

Thus a program which wanted to locate gateways on net 10 would originate a query of the form QTYPE=PTR, QCLASS=IN, QNAME=10.IN-ADDR.ARPA. It would receive two RRs in response:

```
10.IN-ADDR.ARPA.    PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
```

The program could then originate QTYPE=A, QCLASS=IN queries for MILNET-GW.ISI.EDU. and GW.LCS.MIT.EDU. to discover the Internet addresses of these gateways.

A resolver which wanted to find the host name corresponding to Internet host address 10.0.0.6 would pursue a query of the form QTYPE=PTR, QCLASS=IN, QNAME=6.0.0.10.IN-ADDR.ARPA, and would receive:

```
6.0.0.10.IN-ADDR.ARPA. PTR MULTICS.MIT.EDU.
```

Several cautions

apply to the use of these services:

- Since the IN-ADDR.ARPA special domain and the normal domain for a particular host or gateway will be in different zones, the possibility exists that that the data may be inconsistent.
- Gateways will often have two names in separate domains, only one of which can be primary.
- Systems that use the domain database to initialize their routing tables must start with enough gateway information to guarantee that they can access the appropriate name server.

- The gateway data only reflects the existence of a gateway in a manner equivalent to the current HOSTS.TXT file. It doesn't replace the dynamic availability information from GGP or EGP.

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3.6. Defining new types, classes, and special namespaces

The previously defined types and classes are the ones in use as of the date of this memo. New definitions should be expected. This section makes some recommendations to designers considering additions to the existing facilities. The mailing list NAMEDROPPERS@SRI-NIC.ARPA is the forum where general discussion of design issues takes place.

In general, a new type is appropriate when new information is to be added to the database about an existing object, or we need new data formats for some totally new object. Designers should accept to define types and their RDATA formats that are generally applicable to all classes, and which avoid duplication of information. New classes are appropriate when the DNS is to be used for a new protocol, etc which requires new class-specific data formats, or when a copy of the existing name space is desired, but a separate management domain is necessary.

New types and classes need mnemonics for master files; the format of the master files requires that the mnemonics for type and class be disjoint.

TYPE and

CLASS values must be a proper subset of QTYPEs and QCLASSes respectively.

The present system uses multiple RRs to represent multiple values of a type rather than storing multiple values in the RDATA section of a single RR. This is less efficient for most applications, but does keep RRs shorter. The multiple RRs assumption is incorporated in some experimental work on dynamic update methods.

The present system attempts to minimize the duplication of data in the database in order to insure consistency. Thus, in order to find the address of the host for a mail exchange, you map the mail domain name to a host name, then the host name to addresses, rather than a direct mapping to host address. This approach is preferred because it avoids the opportunity for inconsistency.

In defining a new type of data, multiple RR types should not be used to create an ordering between entries or express different formats for equivalent bindings, instead this information should be carried in the body

of the RR and a single type used. This policy avoids problems with caching multiple types and defining QTYPEs to match multiple types.

For example, the original form of mail exchange binding used two RR types one to represent a "closer" exchange (MD) and one to represent a "less close" exchange (MF). The difficulty is that the presence of one RR type in a cache doesn't convey any information about the other because the query which acquired the cached information might have used a QTYPE of MF, MD, or MAILA (which matched both). The redesigned

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service used a single type (MX) with a "preference" value in the RDATA section which can order different RRs. However, if any MX RRs are found in the cache, then all should be there.

4. MESSAGES

4.1. Format

All communications inside of the domain protocol are carried in a single format called

a message. The top level format of message is divided into 5 sections (some of which are empty in certain cases) shown below:

```
+-----+
|   Header   |
+-----+
|   Question   | the question for the name server
+-----+
|   Answer    | RRs answering the question
+-----+
|   Authority  | RRs pointing toward an authority
+-----+
|  Additional  | RRs holding additional information
+-----+
```

The header section is always present. The header includes fields that

The names of the sections after the header are derived from their use in standard queries. The question section contains fields that describe a question to a name server. These fields are a query type (QTYPE), a query class (QCLASS), and a query domain name (QNAME). The last three sections have the same format: a possibly empty list of concatenated resource records (RRs). The answer section contains RRs that answer the question; the authority section contains RRs that point toward an authoritative name server; the additional records section contains RRs which relate to the query, but are not strictly answers for the question.

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The header contains the following fields:

1 1 1 1 1 1

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

| ID |

|QR| Opcode |AA|TC|RD|RA| Z | RCODE |

| QDCOUNT |

| ANCOUNT |

transmission channel.

RD Recursion Desired - this bit may be set in a query and is copied into the response. If RD is set, it directs the name server to pursue the query recursively. Recursive query support is optional.

RA Recursion Available - this bit is set or cleared in a response, and denotes whether recursive query support is available in the name server.

Z Reserved for future use. Must be zero in all queries and responses.

RCODE Response code - this 4 bit field is set as part of responses. The values have the following interpretation:

0 No error condition

1 Format error - The name server was unable to interpret the query.

2 Server failure - The name server was unable to process this query due to a problem with the name server.

3 Name Error - Meaningful only for responses from an authoritative name server, this code signifies that the domain name referenced in the query does not exist.

4 Not Implemented - The name server does not support the requested kind of query.

5 Refused - The name server refuses to perform the specified operation for policy reasons. For example, a name server may not wish to provide the

information to the particular requester,
or a name server may not wish to perform a particular operation (e.g., zone

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transfer) for particular data.

6-15 Reserved for future use.

QDCOUNT an unsigned 16 bit integer specifying the number of
entries in the question section.

ANCOUNT an unsigned 16 bit integer specifying the number of
resource records in the answer section.

NSCOUNT an unsigned 16 bit integer specifying the number of name
server resource records in the authority records
section.

ARCOUNT an unsigned 16 bit integer specifying the number of
resource records in the additional records section.

4.1.2.

Question section format

The question section is used to carry the "question" in most queries,
i.e., the parameters that define what is being asked. The section
contains QDCOUNT (usually 1) entries, each of the following format:

```

      1 1 1 1 1 1
    0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                                     |
|           QNAME                     |
|                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|           QTYPE                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|           QCLASS                    |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+

```

where:

QNAME a domain name represented as a sequence of labels, where
each label consists of a length octet followed by that

number of octets. The domain name terminates with the
zero length octet for the null label of the root. Note

that this field may be an odd number of octets; no padding is used.

QTYPE a two octet code which specifies the type of the query.
The values for this field include all codes valid for a TYPE field, together with some more general codes which can match more than one type of RR.

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QCLASS a two octet code that specifies the class of the query.
For example, the QCLASS field is IN for the Internet.

4.1.3. Resource record format

The answer, authority, and additional sections all share the same format: a variable number of resource records, where the number of records is specified in the corresponding count field in the header.

Each resource record has the following format:

```

      1 1 1 1 1 1
    0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                                     |
|                                     |
|                                     |
|          NAME                      |
|                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          TYPE                      |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          CLASS                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          TTL                       |
|                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|          RDLENGTH                  |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                                     |
|          RDATA                     |
|                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
```

where:

NAME a domain name to which this resource record pertains.

TYPE two octets containing one of the RR type codes. This field specifies the meaning of the data in the RDATA field.

CLASS two octets which specify the class of the data in the RDATA field.

TTL a 32 bit unsigned integer that specifies the time interval (in seconds) that the resource record may be cached before it should be discarded. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached.

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RDLENGTH
an unsigned 16 bit integer that specifies the length in octets of the RDATA field.

RDATA a variable length string of octets that describes the resource. The format of this information varies according to the **TYPE** and **CLASS** of the resource record. For example, the if the **TYPE** is **A** and the **CLASS** is **IN**, the **RDATA** field is a 4 octet **ARPA** Internet address.

4.1.4. Message compression

In order to reduce the size of messages, the domain system utilizes a compression scheme which eliminates the repetition of domain names in a message. In this scheme, an entire domain name or a list of labels at the end of a domain name is replaced with a pointer to a prior occurrence of the same name.

The pointer takes the form of a two octet sequence:

Diagram illustrating a 16-bit bus structure. The bus is divided into three sections: a 2-bit section (labeled '1 1'), a 12-bit section (labeled 'OFFSET'), and a 2-bit section (labeled '2 2').

The

first two bits are ones. This allows a pointer to be distinguished from a label, since the label must begin with two zero bits because labels are restricted to 63 octets or less. (The 10 and 01 combinations are reserved for future use.) The OFFSET field specifies an offset from the start of the message (i.e., the first octet of the ID field in the domain header). A zero offset specifies the first byte of the ID field, etc.

The compression scheme allows a domain name in a message to be represented as either:

- a sequence of labels ending in a zero octet
- a pointer
- a sequence of labels ending with a pointer

Pointers can only be used for occurrences of a domain name where the format is not class specific. If this were not the case, a name server or resolver would be required to know the format of all RRs it handled. As yet, there are no such cases, but they may occur in future RDATA formats.

If a domain name is contained in a part of the message subject to a length field (such as the RDATA section of an RR), and compression is

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used, the length of the compressed name is used in the length calculation, rather than the length of the expanded name.

Programs are free to avoid using pointers in messages they generate, although this will reduce datagram capacity, and may cause truncation. However all programs are required to understand arriving messages that contain pointers.

For example, a datagram might need to use the domain names F.ISI.ARPA, FOO.F.ISI.ARPA, ARPA, and the root. Ignoring the other fields of the message, these domain names might be represented as:

```

+-----+
20 |      1      |      F      |
+-----+
22 |      3      |      I      |
+-----+
24 |      S      |      I      |
+-----+
26 |      4      |      A      |
+-----+
28 |      R      |      P      |
+-----+
30 |      A      |      0      |
+-----+

+-----+
40 |      3      |      F      |
+-----+
42 |      O      |      O      |
+-----+
44 | 1 1|      20      |
+-----+

+-----+
64 | 1 1|
26 |
+-----+

+-----+
92 |      0      |
+-----+

```

The domain name for F.ISI.ARPA is shown at offset 20. The domain name FOO.F.ISI.ARPA is shown at offset 40; this definition uses a pointer to concatenate a label for FOO to the previously defined F.ISI.ARPA. The domain name ARPA is defined at offset 64 using a pointer to the ARPA component of the name F.ISI.ARPA at 20; note that this pointer relies on ARPA being the last label in the string at 20. The root domain name is

defined by a single octet of zeros at 92; the root domain name has no labels.

4.2. Transport

The DNS assumes that messages will be transmitted as datagrams or in a byte stream carried by a virtual circuit. While virtual circuits can be used for any DNS activity, datagrams are preferred for queries due to their lower overhead and better performance. Zone refresh activities must use virtual circuits because of the need for reliable transfer.

The Internet supports name server access using TCP [RFC-793] on server port 53 (decimal) as well as datagram access using UDP [RFC-768] on UDP port 53 (decimal).

4.2.1. UDP usage

Messages sent using UDP use server port 53 (decimal).

Messages carried by UDP are restricted to 512 bytes (not counting the IP or UDP headers). Longer messages are truncated and the TC bit is set in the header.

UDP is not acceptable for zone transfers, but is the recommended method for standard queries in the Internet. Queries sent using UDP may be lost, and hence a retransmission strategy is required. Queries or their responses may be reordered by the network, or by processing in name servers, so resolvers should not depend on them being returned in order.

The optimal UDP retransmission policy will vary with performance of the Internet and the needs of the client, but the following are recommended:

- The client should try other servers and server addresses before repeating a query to a specific address of a server.
- The retransmission interval should be based on prior statistics if possible. Too aggressive retransmission can easily slow responses for the community at large. Depending on how well connected the client is to its expected servers, the minimum retransmission interval should be 2-5 seconds.

More suggestions on server selection and retransmission policy can be found in the resolver section of this memo.

4.2.2. TCP usage

Messages sent over TCP connections use server port 53 (decimal). The message is prefixed with a two byte length field which gives the message

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length, excluding the two byte length field. This length field allows the low-level processing to assemble a complete message before beginning to parse it.

Several connection management policies are recommended:

- The server should not block other activities waiting for TCP data.
- The server should support multiple connections.
- The server should assume that the client will initiate connection closing, and should delay closing its end of the connection until all outstanding client requests have been satisfied.
- If the server needs to close a dormant connection to reclaim resources, it should wait until the connection has been idle for a period on the order of two minutes. In particular, the server should allow the SOA and AXFR request sequence (which begins a refresh operation) to be made on a single connection. Since the server would be unable to answer queries anyway, a unilateral close or reset may be used instead of a graceful close.

5. MASTER FILES

Master files are text files that contain RRs in text form. Since the contents of a zone can be expressed in the form of a list of RRs a master file is most often used to define a zone, though it can be used to list a cache's contents. Hence, this section first discusses the format of RRs in a master file, and then the special considerations when a master file is used to create a zone in some name server.

5.1. Format

The format of these files is a sequence of entries. Entries are predominantly line-oriented, though parentheses can be used to continue a list of items across a line boundary, and text literals can contain

CRLF within the text. Any combination of tabs and spaces act as a delimiter between the separate items that make up an entry. The end of any line in the master file can end with a comment. The comment starts with a ";" (semicolon).

The following entries are defined:

<blank>[<comment>]

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\$ORIGIN <domain-name> [<comment>]

\$INCLUDE <file-name> [<domain-name>] [<comment>]

<domain-name><rr> [<comment>]

<blank><rr> [<comment>]

Blank lines, with or without comments, are allowed anywhere in the file.

Two control entries are defined: \$ORIGIN and \$INCLUDE. \$ORIGIN is followed by a domain name, and resets the current origin for relative domain names to the stated name. \$INCLUDE inserts the named file into the current file, and may optionally specify a domain name that sets the relative domain name origin for the included file. \$INCLUDE may also have a comment. Note that a \$INCLUDE entry never changes the relative origin of the parent file, regardless of changes to the relative origin made within the included file.

The last two forms represent RRs. If an entry for an RR begins with a blank, then the RR is assumed to be owned by the last stated owner. If an RR entry begins with a <domain-name>, then the owner name is reset.

<rr> contents take one of the following forms:

[<TTL>] [<class>] <type> <RDATA>

[<class>] [<TTL>] <type> <RDATA>

The RR begins with optional TTL and class fields, followed by a type and RDATA field appropriate to the type and class. Class and type use the standard mnemonics, TTL is a decimal integer. Omitted class and TTL values are default to the last explicitly stated values. Since type and class mnemonics are disjoint, the parse is unique. (Note that this order is different from the order used in examples and the order used in the actual RRs; the given order allows easier parsing and defaulting.)

<domain-name>s make up a large share of the data in the master file. The labels in the domain name are expressed as character strings and separated by dots. Quoting conventions allow arbitrary characters to be stored

in domain names. Domain names that end in a dot are called absolute, and are taken as complete. Domain names which do not end in a dot are called relative; the actual domain name is the concatenation of the relative part with an origin specified in a \$ORIGIN, \$INCLUDE, or as an argument to the master file loading routine. A relative name is an error when no origin is available.

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<character-string> is expressed in one or two ways: as a contiguous set of characters without interior spaces, or as a string beginning with a " and ending with a ". Inside a " delimited string any character can occur, except for a " itself, which must be quoted using \ (back slash).

Because these files are text files several special encodings are necessary to allow arbitrary data to be loaded. In particular:

of the root.

@

A free standing @ is used to denote the current origin.

\X where X is any character other than a digit (0-9), is used to quote that character so that its special meaning does not apply. For example, "\" can be used to place a dot character in a label.

\DDD where each D is a digit is the octet corresponding to the decimal number described by DDD. The resulting

octet is assumed to be text and is not checked for special meaning.

- () Parentheses are used to group data that crosses a line boundary. In effect, line terminations are not recognized within parentheses.
- ;
 Semicolon is used to start a comment; the remainder of the line is ignored.

5.2. Use of master files to define zones

When a master file is used to load a zone, the operation should be suppressed if any errors are encountered in the master file. The rationale for this is that a single error can have widespread consequences. For example, suppose that the RRs defining a delegation have syntax errors; then the server will return authoritative name errors for all names in the subzone (except in the case where the subzone is also present on the server).

Several other validity checks that should be performed in addition to insuring that the file is syntactically correct:

1. All RRs in the file should have the same class.
2. Exactly one SOA RR should be present at the top of the zone.
3. If delegations are present and glue information is required, it should be present.

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4. Information present outside of the authoritative nodes in the zone should be glue information, rather than the result of an origin or similar error.

5.3. Master file example

The following is an example file which might be used to define the ISI.EDU zone, and is loaded with an origin of ISI.EDU:

```
@ IN SOA  VENERA  Action\.domains (
        20  ; SERIAL
        7200 ; REFRESH
        600  ; RETRY
        3600000; EXPIRE
        60) ; MINIMUM
```

```
NS  A.ISI.EDU.
NS  VENERA
NS  VAXA
MX  10  VENERA
MX  20  VAXA
```

```
A  A  26.3.0.103
```

```
VENERA A  10.1.0.52
A  128.9.0.32
```

```
VAXA A  10.2.0.27
A  128.9.0.33
```

```
$INCLUDE <SUBSYS>ISI-MAILBOXES.TXT
```

Where the file <SUBSYS>ISI-MAILBOXES.TXT is:

```
MOE  MB  A.ISI.EDU.
LARRY MB  A.ISI.EDU.
CURLEY MB  A.ISI.EDU.
STOOGES MG  MOE
      MG  LARRY
      MG  CURLEY
```

Note the use of the \ character in the SOA
RR to specify the responsible
person mailbox "Action.domains@E.ISI.EDU".

6. NAME SERVER IMPLEMENTATION

6.1. Architecture

The optimal structure for the name server will depend on the host operating system and whether the name server is integrated with resolver operations, either by supporting recursive service, or by sharing its database with a resolver. This section discusses implementation considerations for a name server which shares a database with a resolver, but most of these concerns are present in any name server.

6.1.1. Control

A name server must employ multiple concurrent activities, whether they are implemented as separate tasks in the host's OS or multiplexing inside a single name server program. It is simply not acceptable for a name server to block the service of UDP requests while it waits for TCP data for refreshing

or query activities. Similarly, a name server should not attempt to provide recursive service without processing such requests in parallel, though it may choose to serialize requests from a single client, or to regard identical requests from the same client as duplicates. A name server should not substantially delay requests while it reloads a zone from master files or while it incorporates a newly refreshed zone into its database.

6.1.2. Database

While name server implementations are free to use any internal data structures they choose, the suggested structure consists of three major parts:

- A "catalog" data structure which lists the zones available to this server, and a "pointer" to the zone data structure. The main purpose of this structure is to find the nearest ancestor zone, if any, for arriving standard queries.
- Separate data structures for each of the zones held by the name server.
- A data structure for cached data. (or perhaps separate caches for different classes)

All of these data structures can be implemented an identical tree structure format, with different data chained off the nodes in different parts: in the catalog the data is pointers to zones, while in the zone and cache data structures, the data will be RRs. In designing the tree

framework the designer should recognize that query processing will need to traverse the tree using case-insensitive label comparisons; and that

in real data, a few nodes have a very high branching factor (100-1000 or more), but the vast majority have a very low branching factor (0-1).

One way to solve the case problem is to store the labels for each node in two pieces: a standardized-case representation of the label where all ASCII characters are in a single case, together with a bit mask that denotes which characters are actually of a different case. The branching factor diversity can be handled using a simple linked list for a node until the branching factor exceeds some threshold, and transitioning to a hash structure after the threshold is exceeded. In any case, hash structures used to store tree sections must insure that hash functions and procedures preserve the casing conventions of the DNS.

The use of separate structures for the different parts of the database is motivated by several factors:

- The catalog structure can be an almost static structure that need change only when the system administrator changes the zones supported by the server. This structure can also be used to store parameters used to control refreshing activities.

- The individual data structures for zones allow a zone to be replaced simply by changing a pointer in the catalog. Zone refresh operations can build a new structure and, when complete, splice it into the database via a simple pointer replacement. It is very important that when a zone is refreshed, queries should not use old and new data simultaneously.

- With the proper search procedures, authoritative data in zones will always "hide", and hence take precedence over, cached data.

- Errors in zone definitions that cause overlapping zones, etc.,

may cause erroneous responses to queries, but problem determination is simplified, and the contents of one "bad" zone can't corrupt another.

- Since the cache is most frequently updated, it is most vulnerable to corruption during system restarts. It can also become full of expired RR data. In either case, it can easily be discarded without disturbing zone data.

A major aspect of database design is selecting a structure which allows the name server to deal with crashes of the name server's host. State information which a name server should save across system crashes

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includes the catalog structure (including the state of refreshing for each zone) and the zone data itself.

6.1.3. Time

Both the TTL data for RRs and the timing data for refreshing activities depends on 32 bit timers in units of seconds. Inside the database, refresh timers and TTLs for cached data conceptually "count down", while data in the zone stays with constant TTLs.

A recommended implementation strategy is to store time in two ways: as a relative increment and as an absolute time. One way to do this is to use positive 32 bit numbers for one type and negative numbers for the other. The RRs in zones use relative times; the refresh timers and cache data use absolute times. Absolute numbers are taken with respect to some known origin and converted to relative values when placed in the response to a query. When an absolute TTL is negative after conversion to relative, then the data is expired and should be ignored.

6.2. Standard query processing

The major algorithm for standard query processing is presented in [RFC-1034].

When processing queries with QCLASS=*, or some other QCLASS which matches multiple classes, the response should never be authoritative

unless the server can guarantee that the response covers all classes.

When composing a response, RRs which are to be inserted in the additional section, but duplicate RRs in the answer or authority sections, may be omitted from the additional section.

When a response is so long that truncation is required, the truncation should start at the end of the response and work forward in the datagram. Thus if there is any data for the authority section, the answer section is guaranteed to be unique.

The MINIMUM value in the SOA should be used to set a floor on the TTL of data distributed from a zone. This floor function should be done when the data is copied into a response.

This will allow future dynamic update protocols to change the SOA MINIMUM field without ambiguous semantics.

6.3. Zone refresh and reload processing

In spite of a server's best efforts, it may be unable to load zone data from a master file due to syntax errors, etc., or be unable to refresh a zone within its expiration parameter. In this case, the name server

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should answer queries as if it were not supposed to possess the zone.

If a master is sending a zone out via AXFR, and a new version is created during the transfer, the master should continue to send the old version if possible. In any case, it should never send part of one version and part of another. If completion is not possible, the master should reset the connection on which the zone transfer is taking place.

6.4. Inverse queries (Optional)

Inverse queries are an optional part of the DNS. Name servers are not required to support any form of inverse queries. If a name server receives an inverse query that it does not support, it returns an error response with the "Not Implemented" error set in the header. While inverse query support is optional, all name servers must be at least able to return the error response.

6.4.1. The contents of inverse queries and responses Inverse queries reverse the mappings performed by standard query operations; while a standard query maps a domain name to a resource, an inverse query maps a resource to a domain name. For example, a standard query might bind a domain name to a host address; the corresponding inverse query binds the host address to a domain name.

Inverse queries take the form of a single RR in the answer section of the message, with an empty question section. The owner name of the query RR and its TTL are not significant. The response carries questions in the question section which identify all names possessing the query RR WHICH THE NAME SERVER KNOWS. Since no name server knows about all of the domain name space, the response can never be assumed to be complete. Thus inverse queries are primarily useful for database management and debugging activities. Inverse queries are NOT an acceptable method of mapping host addresses to host names; use the IN-ADDR.ARPA domain instead.

Where possible, name servers should provide case-insensitive comparisons for inverse queries. Thus an inverse query asking for an MX RR of "Venera.isi.edu" should get the same response as a query for "VENERA.ISI.EDU"; an inverse query for HINFO RR "IBM-PC UNIX" should produce the same result as an inverse query for "IBM-pc unix". However, this cannot be guaranteed because name servers may possess RRs that contain character strings but the name server does not know that the data is character.

When a name server processes an inverse query, it either returns:

1. zero, one, or multiple domain names for the specified resource as QNAMEs in the question section

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2. an error code indicating that the name server doesn't support inverse mapping of the specified resource type.

When the response to an inverse query contains one or more QNAMEs, the owner name and TTL of the RR in the answer section which defines the inverse query is modified to exactly match an RR found at the first

QNAME.

RRs returned in the inverse queries cannot be cached using the same mechanism as is used for the replies to standard queries. One reason for this is that a name might have multiple RRs of the same type, and only one would appear. For example, an inverse query for a single address of a multiply homed host might create the impression that only one address existed.

6.4.2. Inverse query and response example The overall structure of an inverse query for retrieving the domain name that corresponds to Internet address 10.1.0.52 is shown below:

+-----+		
Header		OPCODE=IQUERY, ID=997
+-----+		
Question		<empty>
+-----+		
Answer		<anyname> A IN 10.1.0.52
+-----+		
Authority		<empty>
+-----+		
Additional		<empty>
+-----+		

This query asks for a question whose answer is the Internet style address 10.1.0.52. Since the owner name is not known, any domain name can be used as a placeholder (and is ignored). A single octet of zero, signifying the root, is usually used because it minimizes the length of the message. The TTL of the RR is not significant. The response to this query might be:

```

+-----+
Header   |      OPCODE=RESPONSE, ID=997      |
+-----+
Question |QTYPE=A, QCLASS=IN, QNAME=VENERA.ISI.EDU |
+-----+
Answer   |  VENERA.ISI.EDU  A IN 10.1.0.52      |
+-----+
Authority |      <empty>      |
+-----+
Additional |      <empty>      |
+-----+

```

Note that the QTYPE in a response to an inverse query is the same as the TYPE field in the answer section of the inverse query. Responses to inverse queries may contain multiple questions when the inverse is not unique. If the question section in the response is not empty, then the RR in the answer section is modified to correspond to be an exact copy of an RR at the first QNAME.

6.4.3. Inverse query processing

Name servers that support inverse queries can support these operations through exhaustive searches of their databases, but this becomes impractical as the size of the database increases. An alternative approach is to invert the database according to the search key.

For name servers that support multiple zones and a large amount of data, the recommended approach is separate inversions for each zone.

When a particular zone is changed during a refresh, only its inversions need to be redone.

Support for transfer of this type of inversion may be included in future versions of the domain system, but is not supported in this version.

6.5. Completion queries and responses

The optional completion services described in RFC-882 and RFC-883 have been deleted. Redesigned services may become available in the future.

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7. RESOLVER IMPLEMENTATION

The top levels of the recommended resolver algorithm are discussed in [RFC-1034]. This section discusses implementation details assuming the database structure suggested in the name server implementation section of this memo.

7.1. Transforming a user request into a query

The first step a resolver takes is to transform the client's request, stated in a format suitable to the local OS, into a search specification for RRs at a specific name which match a specific QTYPE and QCLASS. Where possible, the QTYPE and QCLASS should correspond to a single type and a single class, because this makes the use of cached data much simpler. The reason for this is that the presence of data of one type in a cache doesn't confirm the existence or non-existence of data of other types, hence the only way to be sure is to consult an authoritative source. If QCLASS=* is used, then authoritative answers won't be available.

Since a resolver must be able to multiplex multiple requests if it is to perform its function efficiently, each pending request is usually represented in some block of state information. This state block will typically contain:

- A timestamp indicating the time the request began.

The timestamp is used to decide whether RRs in the database can be used or are out of date. This timestamp uses the absolute time format previously discussed for RR storage in

zones and caches. Note that when an RRs TTL indicates a relative time, the RR must be timely, since it is part of a zone. When the RR has an absolute time, it is part of a cache, and the TTL of the RR is compared against the timestamp

for the start of the request.

Note that using the timestamp is superior to using a current time, since it allows RRs with TTLs of zero to be entered in the cache in the usual manner, but still used by the current request, even after intervals of many seconds due to system load, query retransmission timeouts, etc.

- Some sort of parameters to limit the amount of work which will be performed for this request.

The amount of work which a resolver will do in response to a client request must be limited to guard against errors in the database, such as circular CNAME references, and operational problems, such as network partition which prevents the

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resolver from accessing the name servers it needs. While local limits on the number of times a resolver will retransmit a particular query to a particular name server address are essential, the resolver should have a global per-request counter to limit work on a single request. The counter should be set to some initial value and decremented whenever the resolver performs any action (retransmission timeout, retransmission, etc.) If the counter passes zero, the request is terminated with a temporary error.

Note that if the resolver structure allows one request to start others in parallel, such as when the need to access a name server for one request causes a parallel resolve for the name server's addresses, the spawned request should be started with a lower counter. This prevents circular references in the database from starting a chain reaction of resolver activity.

- The SLIST data structure discussed in [RFC-1034].

This structure keeps track of the state of a request if it must wait for answers from foreign name servers.

7.2. Sending the queries

As described in [RFC-1034], the basic task of the resolver is to formulate a query which will answer the client's request and direct that query to name servers which can provide the information. The resolver will usually only have very strong hints about which servers to ask, in the form of NS RRs, and may have to revise the query, in response to CNAMEs, or revise the set of name servers the resolver is asking, in response to delegation responses which point the resolver to name servers closer to the desired information. In addition to the information requested by the client, the resolver may have to call upon its own services to determine the address of name servers it wishes to contact.

In any case, the model used in this memo assumes that the resolver is multiplexing attention between multiple requests, some from the client, and some internally generated. Each request is represented by some state information, and the desired behavior is that the resolver transmit queries to name servers in a way that maximizes the probability that the request is answered, minimizes the time that the request takes, and avoids excessive transmissions. The key algorithm uses the state information of the request to select the next name server address to query, and also computes a timeout which will cause the next action should a response not arrive. The next action will usually be a transmission to some other server, but may be a temporary error to the

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client.

The resolver always starts with a list of server names to query (SLIST).

This list

will be all NS RRs which correspond to the nearest ancestor zone that the resolver knows about. To avoid startup problems, the resolver should have a set of default servers which it will ask should it have no current NS RRs which are appropriate. The resolver then adds to SLIST all of the known addresses for the name servers, and may start parallel requests to acquire the addresses of the servers when the resolver has the name, but no addresses, for the name servers.

To complete initialization of SLIST, the resolver attaches whatever history information it has to the each address in SLIST. This will

usually consist of some sort of weighted averages for the response time of the address, and the batting average of the address (i.e., how often the address responded at all to the request). Note that this information should be kept on a per address basis, rather than on a per name server basis, because the response time and batting average of a particular server may vary considerably from address to address. Note also that this information is actually specific to a resolver address / server address pair, so a resolver with multiple addresses may wish to keep separate histories for each of its addresses. Part of this step must deal with addresses which have no such history; in this case an expected round trip time of 5-10 seconds should be the worst case, with lower estimates for the same local network, etc.

Note that whenever a delegation is followed, the resolver algorithm reinitializes SLIST.

The information establishes a partial ranking of the available name server addresses. Each time an address is chosen and the state should be altered to prevent its selection again until all other addresses have been tried. The timeout for each transmission should be 50-100% greater than the average predicted value to allow for variance in response.

Some fine points:

- The resolver may encounter a situation where no addresses are available for any of the name servers named in SLIST, and where the servers in the list are precisely those which would normally be used to look up their own addresses. This situation typically occurs when the glue address RRs have a smaller TTL than the NS RRs marking delegation, or when the resolver caches the result of a NS search. The resolver should detect this condition and restart the search at the next ancestor zone, or alternatively at the root.

- If a resolver gets a server error or other bizarre response from a name server, it should remove it from SLIST, and may wish to schedule an immediate transmission to the next

candidate server address.

7.3. Processing responses

The first step in processing arriving response datagrams is to parse the response. This procedure should include:

- Check the header for reasonableness. Discard datagrams which are queries when responses are expected.
- Parse the sections of the message, and insure that all RRs are correctly formatted.
- As an optional step, check the TTLs of arriving data looking for RRs with excessively long TTLs. If a RR has an excessively long TTL, say greater than 1 week, either discard the whole response, or limit all TTLs in the response to 1 week.

The next step is to match the response to a current resolver request. The recommended strategy is to do a preliminary matching using the ID field in the domain header, and then to verify that the question section corresponds to the information currently desired. This requires that the transmission algorithm devote several bits of the domain ID field to a request identifier of some sort. This step has several fine points:

- Some name servers send their responses from different addresses than the one used to receive the query.

That is, a

resolver cannot rely that a response will come from the same address which it sent the corresponding query to. This name server bug is typically encountered in UNIX systems.

- If the resolver retransmits a particular request to a name server it should be able to use a response from any of the transmissions. However, if it is using the response to sample the round trip time to access the name server, it must be able to determine which transmission matches the response (and keep transmission times for each outgoing message), or only calculate round trip times based on initial transmissions.
- A name server will occasionally not have a current copy of a zone which it should have according to some NS RRs. The resolver should simply remove the name server from the current SLIST, and continue.

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7.4. Using the cache

In general, we expect a resolver to cache all data which it receives in responses since it may be useful in answering future client requests. However, there are several types of data which should not be cached:

- When several RRs of the same type are available for a particular owner name, the resolver should either cache them all or none at all. When a response is truncated, and a resolver doesn't know whether it has a complete set, it should not cache a possibly partial set of RRs.
- Cached data should never be used in preference to authoritative data, so if caching would cause this to happen the data should not be cached.
- The results of an inverse query should not be cached.
- The results of standard queries where the QNAME contains "*" labels if the data might be used to construct wildcards. The reason is that the cache does not necessarily contain existing

RRs or zone boundary information which is necessary to restrict the application of the wildcard RRs.

- RR data in responses of dubious reliability. When a resolver receives unsolicited responses or RR data other than that requested, it should discard it without caching it. The basic implication is that all sanity checks on a packet should be performed before any of it is cached.

In a similar vein, when a resolver has a set of RRs for some name in a response, and wants to cache the RRs, it should check its cache for already existing RRs. Depending on the circumstances, either the data in the response or the cache is preferred, but the two should never be combined. If the data in the response is from authoritative data in the answer section, it is always preferred.

8. MAIL SUPPORT

The domain system defines a standard for mapping mailboxes into domain names, and two methods for using the mailbox information to derive mail routing information. The first method is called mail exchange binding and the other method is mailbox binding. The mailbox encoding standard and mail exchange binding are part of the DNS official protocol, and are the recommended method for mail routing in the Internet. Mailbox binding is an experimental feature which is still under development and subject to change.

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The mailbox encoding standard assumes a mailbox name of the form "<local-part>@<mail-domain>". While the syntax allowed in each of these sections varies substantially between the various mail internets, the preferred syntax for the ARPA Internet is given in [RFC-822].

The DNS encodes the <local-part> as a single label, and encodes the <mail-domain> as a domain name. The single label from the <local-part> is prefaced to the domain name from <mail-domain> to form the domain name corresponding to the mailbox. Thus the mailbox HOSTMASTER@SRI-NIC.ARPA is mapped into the domain name HOSTMASTER.SRI-NIC.ARPA. If the <local-part> contains dots or other special characters, its representation in a master file will require the use of backslash quoting to ensure that the domain name is properly encoded. For example, the mailbox Action.domains@ISI.EDU would be represented as Action\domains.ISI.EDU.

8.1. Mail exchange binding

Mail exchange binding uses the <mail-domain> part of a mailbox specification to determine where mail should be sent. The <local-part> is not even consulted. [RFC-974] specifies this method in detail, and should be consulted before attempting to use mail exchange support.

One of the advantages of this method is that it decouples mail destination naming from the hosts used to support mail service, at the cost of another layer of indirection in the lookup function. However, the addition layer should eliminate the need for complicated "%", "!", etc encodings in

<local-part>.

The essence of the method is that the <mail-domain> is used as a domain name to locate type MX RRs which list hosts willing to accept mail for <mail-domain>, together with preference values which rank the hosts according to an order specified by the administrators for <mail-domain>.

In this memo, the <mail-domain> ISI.EDU is used in examples, together with the hosts VENERA.ISI.EDU and VAXA.ISI.EDU as mail exchanges for ISI.EDU. If a mailer had a message for Mockapetris@ISI.EDU, it would route it by looking up MX RRs for ISI.EDU. The MX RRs at ISI.EDU name VENERA.ISI.EDU and VAXA.ISI.EDU, and type A queries can find the host addresses.

8.2. Mailbox binding (Experimental)

In mailbox binding, the mailer uses the entire mail destination specification to construct a domain name. The encoded domain name for the mailbox is used as the QNAME field in a QTYPE=MAILB query.

Several outcomes are possible for this query:

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1. The query can return a name error indicating that the mailbox does not exist as a domain name.

In the long term, this would indicate that the specified mailbox doesn't exist. However, until the use of mailbox binding is universal, this error condition should be interpreted to mean that the organization identified by the global part does not support mailbox binding. The appropriate procedure is to revert to exchange binding at this point.

2. The query can return a Mail Rename (MR) RR.

The MR RR carries new mailbox specification in its RDATA field. The mailer should replace the old mailbox with the new one and retry the operation.

3. The query can return a MB RR.

The MB RR carries a domain name for a host in its RDATA field. The mailer should deliver the message to that host via whatever protocol is applicable, e.g., b,SMTP.

4. The query can return one or more Mail Group (MG) RRs.

This condition means that the mailbox was actually a mailing list or mail group, rather than a single mailbox. Each MG RR has a RDATA field that identifies a mailbox that is a member of the group. The mailer should deliver a copy of the message to each member.

5. The query can return a MB RR as well as one or more MG RRs.

This condition means the the mailbox was actually a mailing list. The mailer can either deliver the message to the host specified by the MB RR, which will in turn do the delivery to all members, or the mailer can use the MG RRs to do the expansion itself.

In any of these cases, the response may include a Mail Information (MINFO) RR. This RR is usually associated with a mail group, but is legal with a MB. The MINFO RR identifies two mailboxes. One of these identifies a responsible person for the original mailbox name. This mailbox should be used for requests to be added to a mail group, etc. The second mailbox name in the MINFO RR identifies a mailbox that should receive error messages for mail failures. This is particularly appropriate for mailing lists when errors in member names should be reported to a person other than the one who sends a message to the list.

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* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc1035 Domain Implementation and Specification.txt

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

Network Working Group

P. Resnick, Editor

Request for Comments: 2822

QUALCOMM Incorporated

Obsoletes: 822

April 2001

Category: Standards Track

Internet Message Format

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages", updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs.

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1. Introduction

1.1. Scope

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages" [RFC822], updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs [STD3].

This standard specifies a syntax only for text messages. In particular,

it makes no provision for the transmission of images, audio, or other sorts of structured data in electronic mail messages. There are several extensions published, such as the MIME document series [RFC2045, RFC2046, RFC2049], which describe mechanisms for the transmission of such data through electronic mail, either by extending the syntax provided here or by structuring such messages to conform to this syntax. Those mechanisms are outside of the scope of this standard.

In the context of electronic mail, messages are viewed as having an envelope and contents. The envelope contains whatever information is needed to accomplish transmission and delivery. (See [RFC2821] for a discussion of the envelope.) The contents comprise the object to be delivered to the recipient. This standard applies only to the format and some of the semantics of message contents. It contains no specification of the information in the envelope.

However, some message systems may use information from the contents to create the envelope. It is intended that this standard facilitate the acquisition of such information by programs.

This specification is intended as a definition of what message content format is to be passed between systems. Though some message systems locally store messages in this format (which eliminates the need for translation between formats) and others use formats that differ from the one specified in this standard, local storage is outside of the scope of this standard.

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Note: This standard is not intended to dictate the internal formats used by sites, the specific message system features that they are expected to support, or any of the characteristics of user interface programs that create or read messages. In addition, this standard does not specify an encoding of the characters for either transport or storage; that is, it does not specify the number of bits used or how those bits are specifically transferred over the wire or stored on disk.

1.2. Notational conventions

1.2.1. Requirements notation

This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "RECOMMENDED", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC2119].

1.2.2. Syntactic notation

This standard uses the Augmented Backus-Naur Form (ABNF) notation specified in [RFC2234] for the formal definitions of the syntax of messages. Characters will be specified either by a decimal value (e.g., the value %d65 for uppercase A and %d97 for lowercase A) or by a case-insensitive literal value enclosed in quotation marks (e.g., "A" for either uppercase or lowercase A). See [RFC2234] for the full description of the notation.

1.3. Structure of this document

This document is divided into several sections.

This section, section 1, is a short introduction to the document.

Section 2 lays out the general description of a message and its constituent parts. This is an overview to help the reader understand some of the general principles used in the later portions of this document. Any examples in this section **MUST NOT** be taken as specification of the formal syntax of any part of a message.

Section 3 specifies formal ABNF rules for the structure of each part of a message (the syntax) and describes the relationship between those parts and their meaning in the context of a message (the semantics). That is, it describes the actual rules for the structure of each part of a message (the syntax) as well as a description of the parts and instructions on how they ought to be interpreted (the semantics). This includes analysis of the syntax and semantics of

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subparts of messages that have specific structure. The syntax included in section 3 represents messages as they **MUST** be created.

There are also notes in section 3 to indicate if any of the options specified in the syntax **SHOULD** be used over any of the others.

Both sections 2 and 3 describe messages that are legal to generate for purposes of this standard.

Section 4 of this document specifies an "obsolete" syntax. There are references in section 3 to these obsolete syntactic elements. The rules of the obsolete syntax are elements that have appeared in earlier revisions of this standard or have previously been widely used in Internet messages. As such, these elements **MUST** be interpreted by parsers of messages in order to be conformant to this standard. However, since items in this syntax have been determined to be non-interoperable or to cause significant problems for recipients of messages, they **MUST NOT** be generated by creators of conformant messages.

Section 5 details security considerations to take into account when implementing this standard.

Section 6 is a bibliography of references in this document.

Section 7 contains the editor's address.

Section 8 contains acknowledgements.

Appendix A lists examples of different sorts of messages. These examples are not exhaustive of the types of messages that appear on the Internet, but give a broad overview of certain syntactic forms.

Appendix B lists the differences between this standard and earlier standards for Internet messages.

Appendix C has copyright and intellectual property notices.

2. Lexical Analysis of Messages

2.1. General Description

At the most basic level, a message is a series of characters. A message that is conformant with this standard is comprised of characters with values in the range 1 through 127 and interpreted as US-ASCII characters [ASCII]. For brevity, this document sometimes refers to this range of characters as simply "US-ASCII characters".

Note: This standard specifies that messages are made up of characters in the US-ASCII range of 1 through 127. There are other documents, specifically the MIME document series [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049], that extend this standard to allow for values outside of that range. Discussion of those mechanisms is not within the scope of this standard.

Messages are divided into lines of characters. A line is a series of characters that is delimited with the two characters carriage-return and line-feed;

that is, the carriage return (CR) character (ASCII value 13) followed immediately by the line feed (LF) character (ASCII value 10). (The carriage-return/line-feed pair is usually written in this document as "CRLF".)

A message consists of header fields (collectively called "the header of the message") followed, optionally, by a body. The header is a sequence of lines of characters with special syntax as defined in this standard. The body is simply a sequence of characters that follows the header and is separated from the header by an empty line (i.e., a line with nothing preceding the CRLF).

2.1.1. Line Length Limits

There are two limits that this standard places on the number of characters in a line. Each line of characters **MUST** be no more than 998 characters, and **SHOULD** be no more than 78 characters, excluding the CRLF.

The 998 character limit is due to limitations in many implementations which send, receive, or store Internet

Message Format messages that

simply cannot handle more than 998 characters on a line. Receiving implementations would do well to handle an arbitrarily large number of characters in a line for robustness sake. However, there are so many implementations which (in compliance with the transport requirements of [RFC2821]) do not accept messages containing more than 1000 character including the CR and LF per line, it is important for implementations not to create such messages.

The more conservative 78 character recommendation is to accommodate the many implementations of user interfaces that display these messages which may truncate, or disastrously wrap, the display of more than 78 characters per line, in spite of the fact that such implementations are non-conformant to the intent of this specification (and that of [RFC2821] if they actually cause information to be lost). Again, even though this limitation is put on messages, it is encumbant upon implementations which display messages

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to handle an arbitrarily large number of characters in a line (certainly at least up to the 998 character limit) for the sake of robustness.

2.2. Header Fields

Header fields are lines composed of a field name, followed by a colon (":"), followed by a field body, and terminated by CRLF. A field name **MUST** be composed of printable US-ASCII characters (i.e., characters that have values between 33 and 126, inclusive), except colon. A field body may be composed of any US-ASCII characters, except for CR and LF. However, a field body may contain CRLF when used in header "folding" and "unfolding" as described in section 2.2.3. All field bodies **MUST** conform to the syntax described in sections 3 and 4 of this standard.

2.2.1. Unstructured Header Field Bodies

Some field bodies in this standard are defined simply as "unstructured" (which is specified below as any US-ASCII characters, except for CR and LF) with no further restrictions. These are referred to as unstructured field bodies. Semantically, unstructured field bodies are simply to be treated as a single line of characters with no further processing (except for header "folding" and "unfolding" as described in section 2.2.3).

2.2.2. Structured Header Field Bodies

Some field bodies in this standard have specific syntactical

structure more restrictive than the unstructured field bodies described above. These are referred to as "structured" field bodies. Structured field bodies are sequences of specific lexical tokens as described in sections 3 and 4 of this standard. Many of these tokens are allowed (according to their syntax) to be introduced or end with comments (as described in section 3.2.3) as well as the space (SP, ASCII value 32) and horizontal tab (HTAB, ASCII value 9) characters (together known as the white space characters, WSP), and those WSP characters are subject to header "folding" and "unfolding" as described in section 2.2.3. Semantic analysis of structured field bodies is given along with their syntax.

2.2.3. Long Header Fields

Each header field is logically a single line of characters comprising the field name, the colon, and the field body. For convenience however, and to deal with the 998/78 character limitations per line, the field body portion of a header field can be split into a multiple line representation; this is called "folding". The general rule is

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that wherever this standard allows for folding white space (not simply WSP characters), a CRLF may be inserted before any WSP. For example, the header field:

Subject: This is a test

can be represented as:

Subject: This
is a test

Note: Though structured field bodies are defined in such a way that folding can take place between many of the lexical tokens (and even within some of the lexical tokens), folding SHOULD be limited to placing the CRLF at higher-level syntactic breaks. For instance, if a field body is defined as comma-separated values, it is recommended that folding occur after the comma separating the structured items in preference to other places where the field could be folded, even if it is allowed elsewhere.

The process of moving from this folded multiple-line representation of a header field to its single line representation is called "unfolding". Unfolding is accomplished by simply removing any CRLF that is immediately followed by WSP. Each header field should be treated in its unfolded form for further syntactic and semantic evaluation.

2.3.

Body

The body of a message is simply lines of US-ASCII characters. The only two limitations on the body are as follows:

- CR and LF MUST only occur together as CRLF; they MUST NOT appear independently in the body.
- Lines of characters in the body MUST be limited to 998 characters, and SHOULD be limited to 78 characters, excluding the CRLF.

Note: As was stated earlier, there are other standards documents, specifically the MIME documents [RFC2045, RFC2046, RFC2048, RFC2049] that extend this standard to allow for different sorts of message bodies. Again, these mechanisms are beyond the scope of this document.

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3. Syntax

3.1. Introduction

The syntax as given in this section defines the legal syntax of Internet messages. Messages that are conformant to this standard MUST conform to the syntax in this section. If there are options in this section where one option SHOULD be generated, that is indicated either in the prose or in a comment next to the syntax.

For the defined expressions, a short description of the syntax and use is given, followed by the syntax in ABNF, followed by a semantic analysis. Primitive tokens that are used but otherwise unspecified come from [RFC2234].

In some of the definitions, there will be nonterminals whose names start with "obs-". These "obs-" elements refer to tokens defined in the obsolete syntax in section 4. In all cases, these productions are to be ignored for the purposes of generating legal Internet messages and MUST NOT be used as part of such a message. However, when interpreting messages, these tokens MUST be honored as part of the legal syntax. In this sense, section 3 defines a grammar for generation of messages, with "obs-" elements that are to be ignored, while section 4 adds grammar for interpretation of messages.

3.2. Lexical Tokens

The following rules are used to define an underlying lexical analyzer, which feeds tokens to the higher-level parsers. This section defines the tokens used in structured header field bodies.

Note: Readers of this standard need to pay special attention to how these lexical tokens are used in both the lower-level and higher-level syntax later in the document. Particularly, the white space tokens and the comment tokens defined in section 3.2.3 get used in the lower-level tokens defined here, and those lower-level tokens are in turn used as parts of the higher-level tokens defined later. Therefore, the white space and comments may be allowed in the higher-level tokens even though they may not explicitly appear in a particular definition.

3.2.1. Primitive Tokens

The following are primitive tokens referred to elsewhere in this standard, but not otherwise defined in [RFC2234].

Some of them will not appear anywhere else in the syntax, but they are convenient to refer to in other parts of this document.

Note: The "specials" below are just such an example. Though the specials token does not appear anywhere else in this standard, it is useful for implementers who use tools that lexically analyze messages. Each of the characters in specials can be used to indicate a tokenization point in lexical analysis.

NO-WS-CTL = %d1-8 / ; US-ASCII control characters
%d11 / ; that do not include the
%d12 / ; carriage return, line feed,
%d14-31 / ; and white space characters
%d127

text = %d1-9 / ; Characters excluding CR and LF
%d11 /
%d12 /
%d14-127 /
obs-text

specials = "(" / ")" / ; Special characters used in
"<" / ">" / ; other parts of the syntax
"[" / "]" /
":" / ";" /
"@ " / "\" /
"," / "." /
DQUOTE

No special semantics are attached to these tokens. They are simply single characters.

3.2.2. Quoted characters

Some characters are reserved for special interpretation, such as delimiting lexical tokens. To permit use of these characters as uninterpreted data, a quoting mechanism is provided.

quoted-pair = ("\" text) / obs-qp

Where any quoted-pair appears, it is to be interpreted as the text character alone. That is to say, the "\" character that appears as part of a quoted-pair is semantically "invisible".

Note: The "\" character may appear in a message where it is not part of a quoted-pair. A "\" character that does not appear in a quoted-pair is not semantically invisible. The only places in this standard where quoted-pair currently appears are ccontent, qcontent, dcontent, no-fold-quote, and no-fold-literal.

3.2.3. Folding white space and comments

White space characters, including white space used in folding (described in section 2.2.3), may appear between many elements in header field bodies. Also, strings of characters that are treated as comments may be included in structured field bodies as characters enclosed in parentheses. The following defines the folding white space (FWS) and comment constructs.

Strings of characters enclosed in parentheses are considered comments so long as they do not appear within a "quoted-string", as defined in section 3.2.5. Comments may nest.

There are several places in this standard where comments and FWS may be freely inserted. To accommodate that syntax, an additional token for "CFWS" is defined for places where comments and/or FWS can occur. However, where CFWS occurs in this standard, it **MUST NOT** be inserted in such a way that any line of a folded header field is made up entirely of WSP characters and nothing else.

FWS = ([*WSP CRLF] 1*WSP) / ; Folding white space
obs-FWS

ctext = NO-WS-CTL / ; Non white space controls

%d33-39 / ; The rest of the US-ASCII
%d42-91 / ; characters not including "(",
%d93-126 ; ")", or "\"

ccontent = ctext / quoted-pair / comment

comment = "(" *([FWS] ccontent) [FWS] ")"

CFWS =
*([FWS] comment) (([FWS] comment) / FWS)

Throughout this standard, where FWS (the folding white space token) appears, it indicates a place where header folding, as discussed in section 2.2.3, may take place. Wherever header folding appears in a

message (that is, a header field body containing a CRLF followed by any WSP), header unfolding (removal of the CRLF) is performed before any further lexical analysis is performed on that header field according to this standard. That is to say, any CRLF that appears in FWS is semantically "invisible."

A comment is normally used in a structured field body to provide some human readable informational text. Since a comment is allowed to contain FWS, folding is permitted within the comment. Also note that since quoted-pair is allowed in a comment, the parentheses and

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backslash characters may appear in a comment so long as they appear as a quoted-pair. Semantically, the enclosing parentheses are not part of the comment; the comment is what is contained between the two parentheses. As stated earlier, the "\" in any quoted-pair and the CRLF in any FWS that appears within the comment are semantically "invisible" and therefore not part of the comment either.

Runs of FWS, comment or CFWS that occur between lexical tokens in a structured field header are semantically interpreted as a single space character.

3.2.4. Atom

Several productions in structured header field bodies are simply strings of certain basic characters. Such productions are called atoms.

Some of the structured header field bodies also allow the period character (".", ASCII value 46) within runs of atext. An additional "dot-atom" token is defined for those purposes.

atext = ALPHA / DIGIT / ; Any character except
controls,

 "!" / "#" / ; SP, and specials.

 "\$" / "%" / ; Used for atoms

 "&" / "'" /

 "*" / "+" /

 "-" / "/" /

 "=" / "?" /

"^" / "_" /
 "`" / "{" /
 "|" / "}" /
 "~"

atom = [CFWS] 1*atext [CFWS]

dot-atom = [CFWS] dot-atom-text [CFWS]

dot-atom-text = 1*atext *("." 1*atext)

Both atom and dot-atom are interpreted as a single unit, comprised of the string of characters that make it up. Semantically, the optional comments and FWS surrounding the rest of the characters are not part of the atom; the atom is only the run of atext characters in an atom, or the atext and "." characters in a dot-atom.

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3.2.5. Quoted strings

Strings of characters that include characters other than those allowed in atoms may be represented in a quoted string format, where the characters are surrounded by quote (DQUOTE, ASCII value 34) characters.

qtext = NO-WS-CTL / ; Non white space controls

%d33 / ; The rest of the US-ASCII
 %d35-91 / ; characters not including "\"
 %d93-126 ; or the quote character

qcontent = qtext / quoted-pair

quoted-string = [CFWS]
 DQUOTE *([FWS] qcontent) [FWS] DQUOTE
 [CFWS]

A quoted-string is treated as a unit. That is, quoted-string is identical to atom, semantically. Since a quoted-string is allowed to contain FWS, folding is permitted. Also note that since quoted-pair is allowed in a quoted-string, the quote and backslash characters may appear in a quoted-string so long as they appear as a quoted-pair.

Semantically, neither the optional CFWS outside of the quote characters nor the quote characters themselves are part of the quoted-string; the quoted-string is what is contained between the two quote characters. As stated earlier, the "\" in any quoted-pair and the CRLF in any FWS/CFWS that appears within the quoted-string are semantically "invisible" and therefore not part of the quoted-string either.

3.2.6. Miscellaneous tokens

Three additional tokens are defined, word and phrase for combinations of atoms and/or quoted-strings, and unstructured for use in unstructured header fields and in some places within structured header fields.

word = atom / quoted-string

phrase = 1*word / obs-phrase

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utext = NO-WS-CTL / ; Non white space controls
%d33-126 / ; The rest of US-ASCII
obs-utext

unstructured = *([FWS] utext) [FWS]

3.3. Date and Time Specification

Date and time occur in several header fields. This section specifies

the syntax for a full date and time specification. Though folding white space is permitted throughout the date-time specification, it is RECOMMENDED that a single space be used in each place that FWS appears (whether it is required or optional); some older implementations may not interpret other occurrences of folding white space correctly.

date-time = [day-of-week ","] date FWS time [CFWS]

day-of-week = ([FWS] day-name) / obs-day-of-week

day-name = "Mon" / "Tue" / "Wed" / "Thu" /
"Fri" / "Sat" / "Sun"

date = day month year

year =
4*DIGIT / obs-year

month = (FWS month-name FWS) / obs-month

month-name = "Jan" / "Feb" / "Mar" / "Apr" /
"May" / "Jun" / "Jul" / "Aug" /
"Sep" / "Oct" / "Nov" / "Dec"

day = ([FWS] 1*2DIGIT) / obs-day

time = time-of-day FWS zone

time-of-day = hour ":" minute [":" second]

hour = 2DIGIT / obs-hour

minute = 2DIGIT / obs-minute

second = 2DIGIT / obs-second

zone = (("+" / "-") 4DIGIT) / obs-zone

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The day is the numeric day of the month. The year is any numeric year 1900 or later.

The time-of-day specifies the number of hours, minutes, and optionally seconds since midnight of the date indicated.

The date and time-of-day **SHOULD** express local time.

The zone specifies the offset from Coordinated Universal Time (UTC, formerly referred to as "Greenwich Mean Time") that the date and time-of-day represent. The "+" or "-" indicates whether the time-of-day is ahead of (i.e., east of) or behind (i.e., west of) Universal Time. The first two digits indicate the number of hours difference from Universal Time, and the last two digits indicate the number of minutes difference from Universal Time. (Hence, +hhmm means $+(hh * 60 + mm)$ minutes, and -hhmm means $-(hh * 60 + mm)$ minutes). The form "+0000" **SHOULD** be used to indicate a time zone at Universal Time. Though "-0000" also indicates Universal Time, it is used to indicate that the time was generated on a system that may be in a local time zone other than Universal Time and therefore indicates that the date-time contains no information about the local time zone.

A date-time specification **MUST** be semantically valid. That is, the day-of-the-week (if included) **MUST** be the day implied by the date, the numeric day-of-month **MUST** be between 1 and the number of days allowed for the specified month (in the specified year), the time-of-day **MUST** be in the range 00:00:00 through 23:59:60 (the number of seconds allowing for a leap second; see [STD12]), and the zone **MUST** be within the range -9959 through +9959.

3.4. Address Specification

Addresses occur in several message header fields to indicate senders and recipients of messages. An address may either be an individual mailbox, or a group of mailboxes.

address = mailbox / group

mailbox = name-addr / addr-spec

name-addr = [display-name] angle-addr

angle-addr = [CFWS] "<" addr-spec ">" [CFWS] / obs-angle-addr

group = display-name ":" [mailbox-list / CFWS] ";"

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display-name = phrase

mailbox-list = (mailbox *(", " mailbox)) / obs-mbox-list

address-list = (address *(", " address)) / obs-addr-list

A mailbox receives mail. It is a conceptual entity which does not necessarily pertain to file storage. For example, some sites may choose to print mail on a printer and deliver the output to the addressee's desk. Normally, a mailbox is comprised of two parts: (1) an optional display name that indicates the name of the recipient (which could be a person or a system) that could be displayed to the user of a mail application, and (2) an addr-spec address enclosed in angle brackets (" $<$ " and " $>$ "). There is also an alternate simple form of a mailbox where the addr-spec address appears alone, without the recipient's name or the angle brackets. The Internet addr-spec address is described in section 3.4.1.

Note:

Some legacy implementations used the simple form where the addr-spec appears without the angle brackets, but included the name of the recipient in parentheses as a comment following the addr-spec. Since the meaning of the information in a comment is unspecified, implementations **SHOULD** use the full name-addr form of the mailbox, instead of the legacy form, to specify the display name associated with a mailbox. Also, because some legacy implementations interpret the comment, comments generally **SHOULD NOT** be used in address fields to avoid confusing such implementations.

When it is desirable to treat several mailboxes as a single unit (i.e., in a distribution list), the group construct can be used. The group construct allows the sender to indicate a named group of recipients. This is done by giving a display name for the group, followed by a colon, followed by a comma separated list of any number of mailboxes (including zero and one), and ending with a semicolon.

Because the list of mailboxes can be empty, using the group construct

is also a simple way to communicate to recipients that the message was sent to one or more named sets of recipients, without actually providing the individual mailbox address for each of those recipients.

3.4.1. Addr-spec specification

An addr-spec is a specific Internet identifier that contains a locally interpreted string followed by the at-sign character ("@", ASCII value 64) followed by an Internet domain. The locally interpreted string is either a quoted-string or a dot-atom. If the string can be represented as a dot-atom (that is, it contains no characters other than atext characters or "." surrounded by atext

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characters), then the dot-atom form SHOULD be used and the quoted-string form SHOULD NOT be used. Comments and folding white space SHOULD NOT be used around the "@" in the addr-spec.

addr-spec = local-part "@" domain

local-part = dot-atom / quoted-string / obs-local-part

domain = dot-atom / domain-literal / obs-domain

domain-literal = [CFWS] "[" *([FWS] dcontent) [FWS] "]" [CFWS]

dcontent = dtext / quoted-pair

dtext = NO-WS-CTL / ; Non white space controls

 %d33-90 / ; The rest of the US-ASCII
 %d94-126 ; characters not including "[",
 ; "]", or "\"

The domain portion identifies the point to which the mail is delivered. In the dot-atom form, this is interpreted as an Internet domain name (either a host name or a mail exchanger name) as described in [STD3, STD13, STD14]. In the domain-literal form, the domain is interpreted as the literal Internet address of the particular

host. In both cases, how addressing is used and how messages are transported to a particular host is covered in the mail transport document [RFC2821]. These mechanisms are outside of the scope of this document.

The local-part portion is a domain dependent string. In addresses, it is simply interpreted on the particular host as a name of a particular mailbox.

3.5 Overall message syntax

A message consists of header fields, optionally followed by a message body. Lines in a message **MUST** be a maximum of 998 characters excluding the CRLF, but it is **RECOMMENDED** that lines be limited to 78 characters excluding the CRLF. (See section 2.1.1 for explanation.) In a message body, though all of the characters listed in the text rule **MAY** be used, the use of US-ASCII control characters (values 1 through 8, 11, 12, and 14 through 31) is discouraged since their interpretation by receivers for display is not guaranteed.

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message = (fields / obs-fields)
[CRLF body]

body = *(*998text CRLF) *998text

The header fields carry most of the semantic information and are defined in section 3.6. The body is simply a series of lines of text which are uninterpreted for the purposes of this standard.

3.6. Field definitions

The header fields of a message are defined here. All header fields have the same general syntactic structure: A field name, followed by a colon, followed by the field body. The specific syntax for each header field is defined in the subsequent sections.

Note: In the ABNF syntax for each field in subsequent sections, each field name is followed by the required colon. However, for brevity sometimes the colon is not referred to in the textual description of the syntax. It is, nonetheless, required.

It is important to note that the header fields are not guaranteed to be in a particular order. They may appear in any order, and they have been known to be reordered occasionally when transported over the Internet. However, for the purposes of this standard, header fields **SHOULD NOT** be reordered when a message is transported or transformed. More importantly, the trace header fields and resent header fields **MUST NOT** be reordered, and **SHOULD** be kept in blocks prepended to the message. See sections 3.6.6 and 3.6.7 for more information.

The only required header fields are the origination date field and the originator address field(s). All other header fields are syntactically optional. More information is contained in the table following this definition.

```
fields      =      *(trace
                    *(resent-date /
                      resent-from /
                      resent-sender /

                      resent-to /
                      resent-cc /
                      resent-bcc /
                      resent-msg-id))
                    *(orig-date /
                      from /
                      sender /
                      reply-to /
```

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```
to /
cc /
bcc /
message-id /
in-reply-to /
references /
```

subject /
 comments /
 keywords /
 optional-field)

The following table indicates limits on the number of times each field may occur in a message header as well as any special limitations on the use of those fields. An asterisk next to a value in the minimum or maximum column indicates that a special restriction appears in the Notes column.

Field	Min number	Max number	Notes
trace	0	unlimited	Block prepended - see 3.6.7
resent-date	0*	unlimited*	One per block, required if other resent fields present - see 3.6.6
resent-from	0	unlimited*	One per block - see 3.6.6
resent-sender	0*	unlimited*	One per block, MUST occur with multi-address resent-from - see 3.6.6
resent-to	0	unlimited*	One per block - see 3.6.6
resent-cc - see	0	unlimited*	One per block 3.6.6
resent-bcc	0	unlimited*	One per block - see 3.6.6
resent-msg-id	0	unlimited*	One per block - see 3.6.6
orig-date	1	1	
from	1	1	See sender and 3.6.2

sender	0*	1	MUST occur with multi-address from - see 3.6.2
reply-to	0	1	
to	0	1	
cc	0	1	
bcc	0	1	
message-id	0*	1	SHOULD be present - see 3.6.4
in-reply-to	0*	1	SHOULD occur in some replies - see 3.6.4
references	0*	1	SHOULD occur in some replies - see 3.6.4
subject	0	1	
comments	0	unlimited	
keywords	0	unlimited	
optional-field	0	unlimited	

The exact interpretation of each field is described in subsequent sections.

3.6.1. The origination date field

The origination date field consists of the field name "Date" followed by a date-time specification.

orig-date = "Date:" date-time CRLF

The origination date specifies the date and time at which the creator of the message indicated that the message was complete and ready to enter the mail delivery system. For instance, this might be the time that a user pushes the "send" or "submit" button in an application program. In any case,

it is specifically not intended to convey the time that the message is actually transported, but rather the time at which the human or other creator of the message has put the message into its final form, ready for transport. (For example, a portable computer user who is not connected to a network might queue a message

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for delivery. The origination date is intended to contain the date and time that the user queued the message, not the time when the user connected to the network to send the message.)

3.6.2. Originator fields

The originator fields of a message consist of the from field, the sender field (when applicable), and optionally the reply-to field. The from field consists of the field name "From" and a comma-separated list of one or more mailbox specifications. If the from field contains more than one mailbox specification in the mailbox-list, then the sender field, containing the field name "Sender" and a single mailbox specification, MUST appear in the message. In either case, an optional reply-to field MAY also be included, which contains the field name "Reply-To" and a comma-separated list of one or more addresses.

from = "From:" mailbox-list CRLF

sender = "Sender:" mailbox CRLF

reply-to = "Reply-To:" address-list CRLF

The originator fields indicate the mailbox(es) of the source of the message. The "From:" field specifies the author(s) of the message, that is, the mailbox(es) of the person(s) or system(s) responsible for the writing of the message. The "Sender:" field specifies the mailbox of the agent responsible for the actual transmission of the message. For example, if a secretary were to send a message for another person, the mailbox of the secretary would appear in the "Sender:" field and the mailbox of the actual author would appear in the "From:" field. If the originator of the message can be indicated by a single mailbox and the author and transmitter are identical, the

"Sender:" field SHOULD NOT be used. Otherwise, both fields SHOULD appear.

The originator fields also provide the information required when replying to a message. When the "Reply-To:" field is present, it indicates the mailbox(es) to which the author of the message suggests that replies be sent. In the absence of the "Reply-To:" field, replies SHOULD by default be sent to the mailbox(es) specified in the "From:" field unless otherwise specified by the person composing the reply.

In all cases, the "From:" field SHOULD NOT contain any mailbox that does not belong to the author(s) of the message. See also section 3.6.3 for more information on forming the destination addresses for a reply.

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3.6.3. Destination address fields

The destination fields of a message consist of three possible fields, each of the same form: The field name, which is either "To", "Cc", or "Bcc", followed by a comma-separated list of one or more addresses (either mailbox or group syntax).

to = "To:" address-list CRLF

cc = "Cc:" address-list CRLF

bcc = "Bcc:" (address-list / [CFWS]) CRLF

The destination fields specify the recipients of the message. Each destination field may have one or more addresses, and each of the addresses indicate the intended recipients of the message. The only difference between the three fields is how each is used.

The "To:" field contains the address(es) of the primary recipient(s) of the message.

The "Cc:" field (where the "Cc" means "Carbon Copy" in the sense of making

a copy on a typewriter using carbon paper) contains the addresses of others who are to receive the message, though the content of the message may not be directed at them.

The "Bcc:" field (where the "Bcc" means "Blind Carbon Copy") contains addresses of recipients of the message whose addresses are not to be revealed to other recipients of the message. There are three ways in which the "Bcc:" field is used. In the first case, when a message containing a "Bcc:" field is prepared to be sent, the "Bcc:" line is removed even though all of the recipients (including those specified in the "Bcc:" field) are sent a copy of the message. In the second case, recipients specified in the "To:" and "Cc:" lines each are sent a copy of the message with the "Bcc:" line removed as above, but the recipients on the "Bcc:" line get a separate copy of the message containing a "Bcc:" line. (When there are multiple recipient addresses in the "Bcc:" field, some implementations actually send a separate copy of the message to each recipient with a "Bcc:" containing only the address of that particular recipient.) Finally, since a "Bcc:" field may contain no addresses, a "Bcc:" field can be sent without any addresses indicating to the recipients that blind copies were sent to someone. Which method to use with "Bcc:" fields is implementation dependent, but refer to the "Security Considerations" section of this document for a discussion of each.

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When a message is a reply to another message, the mailboxes of the authors of the original message (the mailboxes in the "From:" field) or mailboxes specified in the "Reply-To:" field (if it exists) MAY appear in the "To:" field of the reply since these would normally be the primary recipients of the reply. If a reply is sent to a message that has destination fields, it is often desirable to send a copy of the reply to all of the recipients of the message, in addition to the author. When such a reply is formed, addresses in the "To:" and "Cc:" fields of the original message MAY appear in the "Cc:" field of the reply, since these are normally secondary recipients of the reply. If a "Bcc:" field is present in the original message, addresses in that field MAY appear in the "Bcc:" field of the reply,

but SHOULD NOT appear in the "To:" or "Cc:" fields.

Note: Some mail applications have automatic reply commands that include the destination addresses of the original message in the destination addresses of the reply. How those reply commands behave is implementation dependent and is beyond the scope of this document. In particular, whether or not to include the original destination addresses when the original message had a "Reply-To:" field is not addressed here.

3.6.4. Identification fields

Though optional, every message SHOULD have a "Message-ID:" field. Furthermore, reply messages SHOULD have "In-Reply-To:" and "References:" fields as appropriate, as described below.

The "Message-ID:" field contains a single unique message identifier. The "References:" and "In-Reply-To:" field each contain one or more unique message identifiers, optionally separated by CFWS.

The message identifier (msg-id) is similar in syntax to an angle-addr construct without the internal CFWS.

message-id = "Message-ID:" msg-id CRLF

in-reply-to = "In-Reply-To:" 1*msg-id CRLF

references = "References:" 1*msg-id CRLF

msg-id = [CFWS] "<" id-left "@" id-right ">" [CFWS]

id-left = dot-atom-text / no-fold-quote / obs-id-left

id-right = dot-atom-text / no-fold-literal / obs-id-right

no-fold-quote = DQUOTE *(qtext / quoted-pair) DQUOTE

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no-fold-literal = "[" *(dtext / quoted-pair) "]"

The "Message-ID:" field provides a unique message identifier that refers to a particular version of a particular message. The uniqueness of the message identifier is guaranteed by the host that generates it (see below). This message identifier is intended to be machine readable and not necessarily meaningful to humans. A message identifier pertains to exactly one instantiation of a particular message; subsequent revisions to the message each receive new message identifiers.

Note: There are many instances when messages are "changed", but those changes do not constitute a new instantiation of that message, and therefore the message would not get a new message identifier. For example, when messages are introduced into the transport system, they are often prepended

with additional header fields such as trace fields (described in section 3.6.7) and resent fields (described in section 3.6.6). The addition of such header fields does not change the identity of the message and therefore the original "Message-ID:" field is retained. In all cases, it is the meaning that the sender of the message wishes to convey (i.e., whether this is the same message or a different message) that determines whether or not the "Message-ID:" field changes, not any particular syntactic difference that appears (or does not appear) in the message.

The "In-Reply-To:" and "References:" fields are used when creating a reply to a message. They hold the message identifier of the original message and the message identifiers of other messages (for example, in the case of a reply to a message which was itself a reply). The "In-Reply-To:" field may be used to identify the message (or messages) to which the new message is a reply, while the "References:" field may be used to identify a "thread" of conversation.

When creating a reply to a message, the "In-Reply-To:" and "References:" fields of the resultant message are constructed as follows:

The "In-Reply-To:" field will contain the contents of the "Message-ID:" field of the message to which this one is a reply (the "parent message"). If there is more than one parent message, then the "In-Reply-To:" field will contain the contents of all of the parents' "Message-ID:" fields. If there is no "Message-ID:" field in any of the parent messages, then the new message will have no "In-Reply-To:" field.

The "References:" field will contain the contents of the parent's "References:" field (if any) followed by the contents of the parent's "Message-ID:" field (if any). If the parent message does not contain a "References:" field but does have an "In-Reply-To:" field containing a single message identifier, then the "References:" field will contain the contents of the parent's "In-Reply-To:" field followed by the contents of the parent's "Message-ID:" field (if any). If the parent has none of the "References:", "In-Reply-To:", or "Message-ID:" fields, then the new message will have no "References:" field.

Note: Some implementations parse the "References:" field to display the "thread of the discussion". These implementations assume that each new message is a reply to a single parent and hence that they can walk backwards through the "References:" field to find the parent of each message listed there. Therefore, trying to form a "References:" field for a reply that has multiple parents is discouraged and how to do so is not defined in this document.

The message identifier (msg-id) itself MUST be a globally unique identifier for a message. The generator of the message identifier MUST guarantee that the msg-id is unique. There are several algorithms that can be used to accomplish this. Since the msg-id has a similar syntax to angle-addr (identical except that comments and folding white space are not allowed), a good method is to put the domain name (or a domain literal IP address) of the host on which the message identifier was created on the right hand side of the "@", and put a combination of the current absolute date and time along with some other currently unique (perhaps sequential) identifier available on the system (for example, a process id number) on the left hand side. Using a date on the left hand side and a domain name or domain literal on the right hand side makes it possible to guarantee uniqueness since no two hosts use the same domain name or IP address at the same time. Though other algorithms will work, it is RECOMMENDED that the right hand side contain some domain identifier (either of the host itself or otherwise) such that the generator of the message identifier can guarantee the uniqueness of the left hand

side within the scope of that domain.

Semantically, the angle bracket characters are not part of the msg-id; the msg-id is what is contained between the two angle bracket characters.

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3.6.5. Informational fields

The informational fields are all optional. The "Keywords:" field contains a comma-separated list of one or more words or quoted-strings. The "Subject:" and "Comments:" fields are unstructured fields as defined in section 2.2.1, and therefore may contain text or folding white space.

subject = "Subject:" unstructured CRLF

comments = "Comments:" unstructured CRLF

keywords
 = "Keywords:" phrase *(", " phrase) CRLF

These three fields are intended to have only human-readable content with information about the message. The "Subject:" field is the most common and contains a short string identifying the topic of the message. When used in a reply, the field body MAY start with the string "Re: " (from the Latin "res", in the matter of) followed by the contents of the "Subject:" field body of the original message. If this is done, only one instance of the literal string "Re: " ought to be used since use of other strings or more than one instance can lead to undesirable consequences. The "Comments:" field contains any additional comments on the text of the body of the message. The "Keywords:" field contains a comma-separated list of important words and phrases that might be useful for the recipient.

3.6.6. Resent fields

Resent fields **SHOULD** be added to any message that is reintroduced by a user into the transport system. A separate set of resent fields **SHOULD** be added each time this is done. All of the resent fields corresponding to a particular resending of the message **SHOULD** be together. Each new set of resent fields is prepended to the message; that is, the most recent set of resent fields appear earlier in the message. No other fields in the message are changed when resent fields are added.

Each of the resent fields corresponds to a particular field elsewhere in the syntax. For instance, the "Resent-Date:" field corresponds to the "Date:" field and the "Resent-To:" field corresponds to the "To:" field. In each case, the syntax for the field body is identical to the syntax given previously for the corresponding field.

When resent fields are used, the "Resent-From:" and "Resent-Date:" fields **MUST** be sent. The "Resent-Message-ID:" field **SHOULD** be sent. "Resent-Sender:" **SHOULD NOT** be used if "Resent-Sender:" would be identical to "Resent-From:".

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resent-date = "Resent-Date:" date-time CRLF

resent-from = "Resent-From:" mailbox-list CRLF

resent-sender = "Resent-Sender:" mailbox CRLF

resent-to = "Resent-To:" address-list CRLF

resent-cc = "Resent-Cc:" address-list CRLF

resent-bcc = "Resent-Bcc:" (address-list / [CFWS]) CRLF

resent-msg-id = "Resent-Message-ID:" msg-id CRLF

Resent fields are used to identify a message as having been reintroduced into the transport system by a user. The purpose of using resent fields is to have the message appear to the final recipient as if it were sent directly by the original sender, with

all of the original fields remaining the same. Each set of resent fields correspond to a particular resending event. That is, if a message is resent multiple times, each set of resent fields gives identifying information for each individual time. Resent fields are strictly informational. They **MUST NOT** be used in the normal processing of replies or other such automatic actions on messages.

Note: Reintroducing a message into the transport system and using resent fields is a different operation from "forwarding".

"Forwarding" has two meanings: One sense of forwarding is that a mail reading program can be told by a user to forward a copy of a message to another person, making the forwarded message the body of the new message. A forwarded message in this sense does not appear to have come from the original sender, but is an entirely new message from the forwarder of the message. On the other hand, forwarding is also used to mean when a mail transport program gets a message and forwards it on to a different destination for final delivery. Resent header fields are not intended for use with either type of forwarding.

The resent originator fields indicate the mailbox of the person(s) or system(s) that resent the message. As with the regular originator fields, there are two forms: a simple "Resent-From:" form which contains the mailbox of the individual doing the resending, and the more complex form, when one individual (identified in the "Resent-Sender:" field) resends a message on behalf of one or more others (identified in the "Resent-From:" field).

Note: When replying to a resent message, replies behave just as they would with any other message, using the original "From:",

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"Reply-To:", "Message-ID:", and other fields. The resent fields are only informational and **MUST NOT** be used in the normal processing of replies.

The "Resent-Date:" indicates the date and time at which the resent message is dispatched by the resender of the message. Like the "Date:" field, it is not the date and time that the message was

actually transported.

The "Resent-To:", "Resent-Cc:", and "Resent-Bcc:" fields function identically to the "To:", "Cc:", and "Bcc:" fields respectively, except that they indicate the recipients of the resent message, not the recipients of the original message.

The "Resent-Message-ID:" field provides a unique identifier for the resent message.

3.6.7. Trace fields

The trace fields are a group of header fields consisting of an optional "Return-Path:" field, and one or more "Received:" fields. The "Return-Path:" header field contains a pair of angle brackets that enclose an optional addr-spec. The "Received:" field contains a (possibly empty) list of name/value pairs followed by a semicolon and a date-time specification. The first item of the name/value pair is defined by item-name, and the second item is either an addr-spec, an atom, a domain, or a msg-id. Further restrictions may be applied to the syntax of the trace fields by standards that provide for their use, such as [RFC2821].

trace = [return]
 1*received

return = "Return-Path:" path CRLF

path = ([CFWS] "<" ([CFWS] / addr-spec) ">" [CFWS]) /
 obs-path

received = "Received:" name-val-list ";" date-time CRLF

name-val-list = [CFWS] [name-val-pair *(CFWS name-val-pair)]

name-val-pair = item-name CFWS item-value

item-name = ALPHA *["-"] (ALPHA / DIGIT)

item-value = 1*angle-addr / addr-spec /
 atom / domain / msg-id

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A full discussion of the Internet mail use of trace fields is contained in [RFC2821]. For the purposes of this standard, the trace fields are strictly informational, and any formal interpretation of them is outside of the scope of this document.

3.6.8. Optional fields

Fields may appear in messages that are otherwise unspecified in this standard. They MUST conform to the syntax of an optional-field. This is a field name, made up of the printable US-ASCII characters except SP and colon, followed by a colon, followed by any text which conforms to unstructured.

The field names of any optional-field MUST NOT be identical to any field name specified elsewhere in this standard.

optional-field = field-name ":" unstructured CRLF

field-name = 1*ftext

ftext = %d33-57 / ; Any character except
%d59-126 ; controls, SP, and
; ":".

For the purposes of this standard, any optional field is uninterpreted.

4.

Obsolete Syntax

Earlier versions of this standard allowed for different (usually more liberal) syntax than is allowed in this version. Also, there have been syntactic elements used in messages on the Internet whose interpretation have never been documented. Though some of these syntactic forms MUST NOT be generated according to the grammar in section 3, they MUST be accepted and parsed by a conformant receiver. This section documents many of these syntactic elements. Taking the grammar in section 3 and adding the definitions presented in this section will result in the grammar to use for interpretation of messages.

Note: This section identifies syntactic forms that any implementation MUST reasonably interpret. However, there are certainly Internet messages which do not conform to even the additional syntax given in this section. The fact that a particular form does not appear in any

section of this document is not justification for computer programs to crash or for malformed data to be irretrievably lost by any implementation. To repeat an example, though this document requires lines in messages to be no longer than 998 characters, silently

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discarding the 999th and subsequent characters in a line without warning would still be bad behavior for an implementation. It is up to the implementation to deal with messages robustly.

One important difference between the obsolete (interpreting) and the current (generating) syntax is that in structured header field bodies (i.e., between the colon and the CRLF of any structured header field), white space characters, including folding white space, and comments can be freely inserted between any syntactic tokens. This allows many complex forms that have proven difficult for some implementations to parse.

Another key difference between the obsolete and the current syntax is that the rule in section 3.2.3 regarding lines composed entirely of white space in comments and folding white space does not apply. See the discussion of folding white space in section 4.2 below.

Finally, certain characters that were formerly allowed in messages appear in this section. The NUL character (ASCII value 0) was once allowed, but is no longer for compatibility reasons. CR and LF were allowed to appear in messages other than as CRLF; this use is also shown here.

Other differences in syntax and semantics are noted in the following sections.

4.1. Miscellaneous obsolete tokens

These syntactic elements are used elsewhere in the obsolete syntax or in the main syntax. The obs-char and obs-qp elements each add ASCII value 0. Bare CR and bare LF are added to obs-text and obs-utext. The period character is added to obs-phrase. The obs-phrase-list provides for "empty" elements in a comma-separated list of phrases.

Note: The "period" (or "full stop") character (".") in obs-phrase is

not a form that was allowed in earlier versions of this or any other standard. Period (nor any other character from specials) was not allowed in phrase because it introduced a parsing difficulty distinguishing between phrases and portions of an addr-spec (see section 4.4). It appears here because the period character is currently used in many messages in the display-name portion of addresses, especially for initials in names, and therefore must be interpreted properly. In the future, period may appear in the regular syntax of phrase.

obs-qp = "\" (%d0-127)

obs-text = *LF *CR *(obs-char *LF *CR)

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obs-char = %d0-9
/ %d11 / ; %d0-127 except CR and
%d12 / %d14-127 ; LF

obs-utext = obs-text

obs-phrase = word *(word / "." / CFWS)

obs-phrase-list = phrase / 1*([phrase] [CFWS] "," [CFWS]) [phrase]

Bare CR and bare LF appear in messages with two different meanings. In many cases, bare CR or bare LF are used improperly instead of CRLF to indicate line separators. In other cases, bare CR and bare LF are used simply as ASCII control characters with their traditional ASCII meanings.

4.2. Obsolete folding white space

In the obsolete syntax, any amount of folding white space MAY be inserted where the obs-FWS rule is allowed. This creates the possibility of having two consecutive "folds" in a line, and therefore the possibility that a line which makes up a folded header field could be composed entirely of white space.

obs-FWS = 1*WSP *(CRLF 1*WSP)

4.3. Obsolete Date and Time

The syntax for the obsolete date format allows a 2 digit year in the date field and allows for a list of alphabetic time zone specifications that were used in earlier versions of this standard. It also permits comments and folding white space between many of the tokens.

```
obs-day-of-week =    [CFWS] day-name [CFWS]

obs-year      =    [CFWS] 2*DIGIT [CFWS]

obs-month     =    CFWS month-name CFWS

obs-day       =    [CFWS] 1*2DIGIT [CFWS]

obs-hour      =    [CFWS] 2DIGIT [CFWS]

obs-minute    =    [CFWS] 2DIGIT [CFWS]

obs-second    =    [CFWS] 2DIGIT [CFWS]

obs-zone      =    "UT" / "GMT" /      ; Universal Time
```

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```

; North American UT
; offsets
"EST" / "EDT" /
; Eastern: - 5/ - 4
"CST" / "CDT" /      ; Central: - 6/ - 5
"MST" / "MDT" /      ; Mountain: - 7/ - 6
"PST" / "PDT" /      ; Pacific: - 8/ - 7

%d65-73 /      ; Military zones - "A"
%d75-90 /      ; through "I" and "K"
%d97-105 /      ; through "Z", both
%d107-122      ; upper and lower case
```

Where a two or three digit year occurs in a date, the year is to be interpreted as follows: If a two digit year is encountered whose value is between 00 and 49, the year is interpreted by adding 2000, ending up with a value between 2000 and 2049. If a two digit year is

encountered with a value between 50 and 99, or any three digit year is encountered, the year is interpreted by adding 1900.

In the obsolete time zone, "UT" and "GMT" are indications of "Universal Time" and "Greenwich Mean Time" respectively and are both semantically identical to "+0000".

The remaining three character zones are the US time zones. The first letter, "E", "C", "M", or "P" stands for "Eastern", "Central", "Mountain" and "Pacific". The second letter is either "S" for "Standard" time, or "D" for "Daylight" (or summer) time. Their interpretations are as follows:

EDT is semantically equivalent to -0400

EST is semantically equivalent to -0500

CDT is semantically equivalent to -0500

CST is semantically equivalent to -0600

MDT is semantically equivalent to -0600

MST is semantically equivalent to -0700

PDT is semantically equivalent to -0700

PST is semantically equivalent to -0800

The 1 character military time zones were defined in a non-standard way in [RFC822] and are therefore unpredictable in their meaning. The original definitions of the military zones "A" through "I" are equivalent to "+0100" through "+0900" respectively; "K", "L", and "M" are equivalent to "+1000", "+1100", and "+1200" respectively; "N" through "Y" are equivalent to "-0100" through "-1200" respectively; and "Z" is equivalent to "+0000". However, because of the error in [RFC822], they SHOULD all be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

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Other multi-character (usually between 3 and 5) alphabetic time zones have been used in Internet messages. Any such time zone whose meaning is not known SHOULD be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

4.4. Obsolete Addressing

There are three primary differences in addressing. First, mailbox addresses were allowed to have a route portion before the addr-spec when enclosed in "<" and ">". The route is simply a comma-separated list of domain names, each preceded by "@", and the list terminated by a colon. Second, CFWS were allowed between the period-separated elements of local-part and domain (i.e., dot-atom was not used). In addition, local-part is allowed to contain quoted-string in addition to just atom. Finally, mailbox-list and address-list were allowed to have "null" members. That is, there could be two or more commas in such a list with nothing in between them.

obs-angle-addr = [CFWS] "<" [obs-route] addr-spec ">" [CFWS]

obs-route = [CFWS] obs-domain-list ":" [CFWS]

obs-domain-list = "@" domain *(*(CFWS / ",") [CFWS] "@" domain)

obs-local-part = word *("." word)

obs-domain = atom *("." atom)

obs-mbox-list = 1*([mailbox] [CFWS] "," [CFWS]) [mailbox]

obs-addr-list = 1*([address] [CFWS] "," [CFWS]) [address]

When interpreting addresses, the route portion **SHOULD** be ignored.

4.5. Obsolete header fields

Syntactically, the primary difference in the obsolete field syntax is that it allows multiple occurrences of any of the fields and they may occur in any order. Also, any amount of white space is allowed before the ":" at the end of the field name.

obs-fields = *(obs-return /
obs-received /
obs-orig-date /
obs-from /
obs-sender /
obs-reply-to /
obs-to /

obs-cc /
obs-bcc /
obs-message-id /
obs-in-reply-to /
obs-references /
obs-subject /
obs-comments /

obs-keywords /
obs-resent-date /
obs-resent-from /
obs-resent-send /
obs-resent-rply /
obs-resent-to /
obs-resent-cc /
obs-resent-bcc /
obs-resent-mid /
obs-optional)

Except for destination address fields (described in section 4.5.3), the interpretation of multiple occurrences of fields is unspecified. Also, the interpretation of trace fields and resent fields which do not occur in blocks prepended to the message is unspecified as well. Unless otherwise noted in the following sections, interpretation of other fields is identical to the interpretation of their non-obsolete counterparts in section 3.

4.5.1. Obsolete origination date field

obs-orig-date = "Date" *WSP ":" date-time CRLF

4.5.2. Obsolete originator fields

obs-from
= "From" *WSP ":" mailbox-list CRLF

obs-sender = "Sender" *WSP ":" mailbox CRLF

obs-reply-to = "Reply-To" *WSP ":" mailbox-list CRLF

4.5.3. Obsolete destination address fields

obs-to = "To" *WSP ":" address-list CRLF

obs-cc = "Cc" *WSP ":" address-list CRLF

obs-bcc = "Bcc" *WSP ":" (address-list / [CFWS]) CRLF

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When multiple occurrences of destination address fields occur in a message, they SHOULD be treated as if the address-list in the first occurrence of the field is combined with the address lists of the subsequent occurrences by adding a comma and concatenating.

4.5.4. Obsolete identification fields

The obsolete "In-Reply-To:" and "References:" fields differ from the current syntax in that they allow phrase (words or quoted strings) to appear. The obsolete forms of the left and right sides of msg-id allow interspersed CFWS, making them syntactically identical to local-part and domain respectively.

obs-message-id = "Message-ID" *WSP ":" msg-id CRLF

obs-in-reply-to = "In-Reply-To" *WSP ":" *(phrase / msg-id) CRLF

obs-references = "References" *WSP ":" *(phrase / msg-id) CRLF

obs-id-left = local-part

obs-id-right = domain

For purposes of interpretation, the phrases in the "In-Reply-To:" and "References:" fields are ignored.

Semantically, none of the optional CFWS surrounding the local-part and the domain are part of the obs-id-left and obs-id-right respectively.

4.5.5. Obsolete informational fields

obs-subject = "Subject" *WSP ":" unstructured CRLF

obs-comments = "Comments" *WSP ":" unstructured CRLF

obs-keywords = "Keywords" *WSP ":" obs-phrase-list CRLF

4.5.6. Obsolete resent fields

The obsolete syntax adds

a "Resent-Reply-To:" field, which consists

of the field name, the optional comments and folding white space, the colon, and a comma separated list of addresses.

obs-resent-from = "Resent-From" *WSP ":" mailbox-list CRLF

obs-resent-send = "Resent-Sender" *WSP ":" mailbox CRLF

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obs-resent-date = "Resent-Date" *WSP ":" date-time CRLF

obs-resent-to = "Resent-To" *WSP ":" address-list CRLF

obs-resent-cc = "Resent-Cc" *WSP ":" address-list CRLF

obs-resent-bcc = "Resent-Bcc" *WSP ":"
(address-list / [CFWS]) CRLF

obs-resent-mid = "Resent-Message-ID" *WSP ":" msg-id CRLF

obs-resent-rply = "Resent-Reply-To" *WSP ":" address-list CRLF

As with other resent fields, the "Resent-Reply-To:" field is to be treated as trace information only.

4.5.7. Obsolete trace fields

The obs-return and obs-received are again given here as template definitions, just as return and received are in section 3. Their full syntax is given in [RFC2821].

obs-return = "Return-Path" *WSP ":" path CRLF

obs-received = "Received" *WSP ":" name-val-list CRLF

obs-path = obs-angle-addr

4.5.8. Obsolete optional fields

obs-optional = field-name *WSP ":" unstructured CRLF

5. Security Considerations

Care needs to be taken when displaying messages on a terminal or terminal emulator. Powerful terminals may act on escape sequences and other combinations of ASCII control characters with a variety of consequences. They can remap the keyboard or permit other modifications to the terminal which could lead to denial of service or even damaged data. They can trigger (sometimes programmable) answerback messages which can allow a message to cause commands to be issued on the recipient's behalf.

They can also effect the operation of terminal attached devices such as printers. Message viewers may wish to strip potentially dangerous terminal escape sequences from the message prior to display. However, other escape sequences appear in messages for useful purposes (cf. [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049, ISO2022]) and therefore should not be stripped indiscriminately.

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Transmission of non-text objects in messages raises additional security issues. These issues are discussed in [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049].

Many implementations use the "Bcc:" (blind carbon copy) field described in section 3.6.3 to facilitate sending messages to recipients without revealing the addresses of one or more of the addressees to the other recipients. Mishandling this use of "Bcc:" has implications for confidential information that might be revealed, which could eventually lead to security problems through knowledge of even the existence of a particular mail address. For example, if using the first method described in section 3.6.3, where the "Bcc:" line is removed from the message, blind recipients have no explicit indication that they have been sent a blind copy, except insofar as

their address does not appear in the message header. Because of this, one of the blind addressees could potentially send a reply to all of the shown recipients and accidentally reveal that the message went to the blind recipient. When the second method from section 3.6.3 is used, the blind recipient's address appears in the "Bcc:" field of a separate copy of the message. If the "Bcc:" field sent contains all of the blind addressees, all of the "Bcc:" recipients will be seen by each "Bcc:" recipient. Even if a separate message is sent to each "Bcc:" recipient with only the individual's address, implementations still need to be careful to process replies to the message as per section 3.6.3 so as not to accidentally reveal the blind recipient to other recipients.

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Appendix A. Example messages

This section presents a selection of messages. These are intended to assist in the implementation of this standard, but should not be taken as normative; that is to say, although the examples in this section were carefully reviewed, if there happens to be a conflict between these examples and the syntax described in sections 3 and 4 of this document, the syntax in those sections is to be taken as correct.

Messages are delimited in this section between lines of "----". The "----" lines are not part of the message itself.

A.1. Addressing examples

The following are examples of messages that might be sent between two individuals.

A.1.1. A message from one person to another with simple addressing

This could be called a canonical message. It has a single author, John Doe, a single recipient, Mary Smith, a subject, the date, a

message identifier, and a textual message in the body.

From: John

Doe <jdoe@machine.example>

To: Mary Smith <mary@example.net>

Subject: Saying Hello

Date: Fri, 21 Nov 1997 09:55:06 -0600

Message-ID: <1234@local.machine.example>

This is a message just to say hello.

So, "Hello".

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If John's secretary Michael actually sent the message, though John was the author and replies to this message should go back to him, the sender field would be used:

From: John Doe <jdoe@machine.example>

Sender: Michael Jones <mjones@machine.example>

To: Mary Smith <mary@example.net>

Subject: Saying Hello

Date: Fri, 21 Nov 1997 09:55:06 -0600

Message-ID: <1234@local.machine.example>

This is a message just to say hello.

So, "Hello".

A.1.2. Different types of mailboxes

This message includes multiple addresses in the destination fields and also uses several different forms of addresses.

From:

"Joe Q. Public" <john.q.public@example.com>

To: Mary Smith <mary@x.test>, jdoe@example.org, Who? <one@y.test>

Cc: <boss@nil.test>, "Giant; \"Big\" Box" <syssservices@example.net>

Date: Tue, 1 Jul 2003 10:52:37 +0200

Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.

Note that the display names for Joe Q. Public and Giant; "Big" Box needed to be enclosed in double-quotes because the former contains the period and the latter contains both semicolon and double-quote characters (the double-quote characters appearing as quoted-pair construct). Conversely, the display name for Who? could appear without them because the question mark is legal in an atom. Notice also that jdoe@example.org and boss@nil.test have no display names associated with them at all, and jdoe@example.org uses the simpler address form without the angle brackets.

A.1.3. Group addresses

From: Pete <pete@silly.example>
To: A Group:Chris Jones <c@a.test>,joe@where.test,John <jdoe@one.test>;
Cc: Undisclosed recipients;;
Date: Thu, 13 Feb 1969 23:32:54 -0330
Message-ID: <testabcd.1234@silly.example>

Testing.

In this message, the "To:" field has a single group recipient named A Group which contains 3 addresses, and a "Cc:" field with an empty group recipient named Undisclosed recipients.

A.2. Reply messages

The following is a series of three messages that make up a conversation thread between John and Mary. John firsts sends a message to Mary, Mary then replies to John's message, and then John replies to Mary's reply message.

Note especially the "Message-ID:", "References:", and "In-Reply-To:" fields in each message.

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID:
<1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

When sending replies, the Subject field is often retained, though prepended with "Re: " as described in section 3.6.5.

From: Mary Smith <mary@example.net>
To: John Doe <jdoe@machine.example>
Reply-To: "Mary Smith: Personal Account" <smith@home.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 10:01:10 -0600
Message-ID: <3456@example.net>
In-Reply-To: <1234@local.machine.example>
References: <1234@local.machine.example>

This is a reply to your hello.

Note the "Reply-To:" field in the above message. When John replies to Mary's message above, the reply should go to the address in the "Reply-To:" field instead of the address in the "From:" field.

To: "Mary Smith: Personal Account" <smith@home.example>
From:
John Doe <jdoe@machine.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 11:00:00 -0600
Message-ID: <abcd.1234@local.machine.tld>
In-Reply-To: <3456@example.net>
References: <1234@local.machine.example> <3456@example.net>

This is a reply to your reply.

A.3. Resent messages

Start with the message that has been used as an example several times:

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello

Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

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Say that Mary, upon receiving this message, wishes to send a copy of the message to Jane such that (a) the message would appear to have come straight from John; (b) if Jane replies to the message, the reply should go back to John; and (c) all of the original information, like the date the message was originally sent to Mary, the message identifier, and the original addressee, is preserved. In this case, resent fields are prepended to the message:

Resent-From: Mary Smith <mary@example.net>
Resent-To: Jane Brown <j-brown@other.example>
Resent-Date: Mon, 24 Nov 1997 14:22:01 -0800
Resent-Message-ID: <78910@example.net>
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

If Jane, in turn, wished to resend this message to another person, she would prepend her own set of resent header fields to the above and send that.

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A.4. Messages with trace fields

As messages are sent through the transport system as described in [RFC2821], trace fields are prepended to the message. The following is an example of what those trace fields might look like. Note that there is some folding white space in the first one since these lines can be long.

Received: from x.y.test
by example.net
via TCP
with ESMTP
id ABC12345

for <mary@example.net>; 21 Nov 1997 10:05:43 -0600

Received: from machine.example by x.y.test; 21 Nov 1997 10:01:22 -0600

From: John Doe <jdoe@machine.example>

To: Mary Smith <mary@example.net>

Subject: Saying Hello

Date: Fri, 21 Nov 1997 09:55:06 -0600

Message-ID: <1234@local.machine.example>

This is a message just to say hello.

So, "Hello".

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A.5. White space, comments, and other oddities

White space,
including folding white space, and comments can be
inserted between many of the tokens of fields. Taking the example
from A.1.3, white space and comments can be inserted into all of the
fields.

From: Pete(A wonderful \) chap) <pete(his account)@silly.test(his host)>

To:A Group(Some people)

:Chris Jones <c@(Chris's host.)public.example>,
joe@example.org,

John <jdoe@one.test> (my dear friend); (the end of the group)

Cc:(Empty list)(start)Undisclosed recipients :(nobody(that I know)) ;

Date: Thu,
13
Feb
1969
23:32
-0330 (Newfoundland Time)
Message-ID: <testabcd.1234@silly.test>

Testing.

The above example is aesthetically displeasing, but perfectly legal. Note particularly (1) the comments in the "From:" field (including one that has a ")" character appearing as part of a quoted-pair); (2) the white space absent after the ":" in the "To:" field as well as the comment and folding white space after the group name, the special character (".") in the comment in Chris Jones's address, and the folding white space before and after "joe@example.org,"; (3) the multiple and nested comments in the "Cc:" field as well as the comment immediately following the ":" after "Cc"; (4) the folding white space (but no comments except at the end) and the missing seconds in the time of the date field; and (5) the white space before (but not within) the identifier in the "Message-ID:" field.

A.6. Obsolete forms

The following are examples of obsolete (that is, the "MUST NOT generate") syntactic elements described in section 4 of this document.

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A.6.1. Obsolete addressing

Note in the below example the lack of quotes around Joe Q. Public, the route that appears in the address for Mary

Smith, the two commas
that appear in the "To:" field, and the spaces that appear around the
"." in the jdoe address.

From: Joe Q. Public <john.q.public@example.com>
To: Mary Smith <@machine.tld:mary@example.net>, , jdoe@test . example
Date: Tue, 1 Jul 2003 10:52:37 +0200
Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.

A.6.2. Obsolete dates

The following message uses an obsolete date format, including a non-
numeric time zone and a two digit year. Note that although the
day-of-week is missing, that is not specific to the obsolete syntax;
it is optional in the current syntax as well.

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: 21 Nov 97 09:55:06 GMT
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

A.6.3. Obsolete white space and comments

White space and comments can appear between many more elements than
in the current syntax. Also,
folding lines that are made up entirely
of white space are legal.

From : John Doe <jdoe@machine(comment). example>

To : Mary Smith

—

<mary@example.net>

Subject : Saying Hello

Date : Fri, 21 Nov 1997 09(comment): 55 : 06 -0600

Message-ID : <1234 @ local(blah) .machine .example>

This is a message just to say hello.

So, "Hello".

Note especially the second line of the "To:" field. It starts with two space characters. (Note that "___" represent blank spaces.) Therefore, it is considered part of the folding as described in section 4.2. Also, the comments and white space throughout addresses, dates, and message identifiers are all part of the obsolete syntax.

Appendix B. Differences from earlier standards

This appendix contains a list of changes that have been made in the Internet Message Format from earlier standards, specifically [RFC822] and [STD3]. Items marked with an asterisk (*) below are items which appear in section 4 of this document and therefore can no longer be generated.

1. Period allowed in obsolete form of phrase.
2. ABNF moved out of document to [RFC2234].
3. Four or more digits allowed for year.
4. Header field ordering (and lack thereof) made explicit.
5. Encrypted header field removed.
6. Received syntax loosened to allow any token/value pair.
7. Specifically allow and give meaning to "-0000" time zone.
8. Folding white space is not allowed between every token.
9. Requirement for destinations removed.
10. Forwarding and resending redefined.
11. Extension header fields no longer specifically called out.
12. ASCII 0 (null) removed.*
13. Folding continuation lines cannot contain only white space.*

- 14. Free insertion of comments not allowed in date.*
- 15. Non-numeric
time zones not allowed.*
- 16. Two digit years not allowed.*
- 17. Three digit years interpreted, but not allowed for generation.
- 18. Routes in addresses not allowed.*
- 19. CFWS within local-parts and domains not allowed.*
- 20. Empty members of address lists not allowed.*

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- 21. Folding white space between field name and colon not allowed.*
- 22. Comments between field name and colon not allowed.
- 23. Tightened syntax of in-reply-to and references.*
- 24. CFWS within msg-id not allowed.*
- 25. Tightened semantics of resent fields as informational only.
- 26. Resent-Reply-To not allowed.*
- 27. No multiple occurrences of fields (except resent and received).*
- 28. Free CR and LF not allowed.*
- 29. Routes in return path not allowed.*
- 30. Line length limits specified.
- 31. Bcc more clearly specified.

Appendix C.

Notices

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Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2822 Internet Message Format.txt

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

Network Working Group	N. Freed
Request for Comments: 2231	Innosoft
Updates: 2045, 2047, 2183	K. Moore
Obsoletes: 2184	University of Tennessee
Category: Standards Track	November 1997

MIME Parameter Value and Encoded Word Extensions:
Character Sets, Languages, and Continuations

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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1. Abstract

This memo defines extensions to the RFC 2045 media type and RFC 2183 disposition parameter value mechanisms to provide

- (1) a means to specify parameter values in character sets other than US-ASCII,
- (2) to specify the language to be used should the value be displayed, and
- (3) a continuation mechanism for long parameter values to avoid problems with header line wrapping.

This memo also defines an extension to the encoded words defined in RFC 2047 to allow the specification of the language to be used for display as well as the character set.

2. Introduction

The Multipurpose Internet Mail Extensions, or MIME [RFC-2045, RFC-2046, RFC-2047, RFC-2048, RFC-2049], define a message format that allows for:

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- (1) textual message bodies in character sets other than US-ASCII,

- (2) non-textual message bodies,
- (3) multi-part message bodies, and
- (4) textual header information in character sets other than US-ASCII.

MIME is now widely deployed and is used by a variety of Internet protocols, including, of course, Internet email. However, MIME's success has resulted in the need for additional mechanisms that were not provided in the original protocol specification.

In particular, existing MIME mechanisms provide for named media type (content-type field) parameters as well as named disposition (content-disposition field). A MIME media type may specify any number of parameters associated with all of its subtypes, and any specific subtype may specify additional parameters for its own use. A MIME disposition value may specify any number of associated parameters, the most important of which is probably the attachment disposition's filename parameter.

These parameter names and values end up appearing in the content-type and content-disposition header fields in Internet email. This inherently imposes three crucial limitations:

- (1) Lines in Internet email header fields are folded according to RFC 822 folding rules. This makes long parameter values problematic.
- (2) MIME headers, like the RFC 822 headers they often appear in, are limited to 7bit US-ASCII, and the encoded-word mechanisms of RFC 2047 are not available to parameter values. This makes it impossible to have parameter values in character sets other than US-ASCII without specifying some sort of private per-parameter encoding.
- (3) It has recently become clear that character set information is not sufficient to properly display some sorts of information -- language information is also needed [RFC-2130]. For example, support for handicapped users may require reading text string

aloud. The language the text is written in is needed for this to be done correctly. Some parameter values may need to be displayed, hence there is a need to allow for the inclusion of language information.

The last problem on this list is also an issue for the encoded words defined by RFC 2047, as encoded words are intended primarily for display purposes.

This document defines extensions that address all of these limitations. All of these extensions are implemented in a fashion that is completely compatible at a syntactic level with existing MIME implementations. In addition, the extensions are designed to have as little impact as possible on existing uses of MIME.

IMPORTANT NOTE: These mechanisms end up being somewhat glibbous when they actually are used. As such, these mechanisms should not be used lightly; they should be reserved for situations where a real need for them exists.

2.1. Requirements notation

This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC- 2119].

3. Parameter Value Continuations

Long MIME media type or disposition parameter values do not interact well with header line wrapping conventions. In particular, proper header line wrapping depends on there being places where linear whitespace (LWSP) is allowed, which may or may not be present in a parameter value, and even if present may not be recognizable as such since specific knowledge of parameter value syntax may not be available to the agent doing the line wrapping. The result is that long parameter values may end up getting truncated or otherwise damaged by incorrect line wrapping implementations.

A mechanism is therefore needed to break up parameter values into smaller units that are amenable to line wrapping. Any such mechanism **MUST** be compatible with existing MIME processors. This means that

- (1) the mechanism **MUST NOT** change the syntax of MIME media type and disposition lines, and

- (2) the mechanism **MUST NOT** depend on parameter ordering since MIME states that parameters are not order sensitive. Note that while MIME does prohibit modification of MIME headers during transport, it is still possible that parameters will be reordered when user agent level processing is done.

The obvious solution, then, is to use multiple parameters to contain a single parameter value and to use some kind of distinguished name to indicate when this is being done. And this obvious solution is exactly what is specified here: The asterisk character ("*") followed by a decimal count is employed to indicate that multiple parameters are being used to encapsulate a single parameter value. The count starts at 0 and increments by 1 for each subsequent section of the parameter value. Decimal values are used and neither leading zeroes nor gaps in the sequence are allowed.

The original parameter value is recovered by concatenating the various sections of the parameter, in order. For example, the content-type field

```
Content-Type: message/external-body; access-type=URL;
URL*0="ftp://";
URL*1="cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

is semantically identical to

```
Content-Type: message/external-body; access-type=URL;
URL="ftp://cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

Note that quotes around parameter values are part of the value

syntax; they are NOT part of the value itself. Furthermore, it is explicitly permitted to have a mixture of quoted and unquoted continuation fields.

4. Parameter Value Character Set and Language Information

Some parameter values may need to be qualified with character set or language information. It is clear that a distinguished parameter name is needed to identify when this information is present along with a specific syntax for the information in the value itself. In addition, a lightweight encoding mechanism is needed to accommodate 8 bit information in parameter values.

Asterisks ("*") are reused to provide the indicator that language and character set information is present and encoding is being used. A single quote (") is used to delimit the character set and language information at the beginning of the parameter value. Percent signs ("%") are used as the encoding flag, which agrees with RFC 2047.

Specifically, an asterisk at the end of a parameter name acts as an indicator that character set and language information may appear at the beginning of the parameter value. A single quote is used to separate the character set, language, and actual value information in the parameter value string, and an percent sign is used to flag octets encoded in hexadecimal. For example:

```
Content-Type: application/x-stuff;  
title*=us-ascii'en-us'This%20is%20%2A%2A%2Afun%2A%2A%2A
```

Note that it is perfectly permissible to leave either the character set or language field blank. Note also that the single quote delimiters MUST be present even when one of the field values is omitted.

This is done when either character set, language, or both are not relevant to the parameter value at hand. This MUST NOT be done in order to indicate a default character set or language --

parameter field definitions **MUST NOT** assign a default character set or language.

4.1. Combining Character Set, Language, and Parameter Continuations

Character set and language information may be combined with the parameter continuation mechanism. For example:

```
Content-Type: application/x-stuff
title*0*=us-ascii'en'This%20is%20even%20more%20
title*1*=%2A%2A%2Afun%2A%2A%2A%20
title*2*="isn't it!"
```

Note that:

- (1) Language and character set information only appear at the beginning of a given parameter value.
- (2) Continuations do not provide a facility for using more than one character set or language in the same parameter value.
- (3) A value presented using multiple continuations may contain a mixture of encoded and unencoded segments.

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- (4) The first segment of a continuation **MUST** be encoded if language and character set information are given.
- (5) If the first segment of a continued parameter value is encoded the language and character set field delimiters **MUST** be present even when the fields are left blank.

5. Language specification in Encoded Words

RFC 2047 provides support for non-US-ASCII character sets in RFC 822 message header comments, phrases, and any unstructured text field.

This is done by defining an encoded word construct which can appear in any of these places. Given that these are fields intended for

display, it is sometimes necessary to associate language information with encoded words as well as just the character set. This specification extends the definition of an encoded word to allow the inclusion of such information. This is simply done by suffixing the character set specification with an asterisk followed by the language tag. For example:

From: =?US-ASCII*EN?Q?Keith_Moore?= <moore@cs.utk.edu>

6. IMAP4 Handling of Parameter Values

IMAP4 [RFC-2060] servers SHOULD decode parameter value continuations when generating the BODY and BODYSTRUCTURE fetch attributes.

7. Modifications to MIME ABNF

The ABNF for MIME parameter values given in RFC 2045 is:

parameter := attribute "=" value

attribute := token

 ; Matching of attributes

 ; is ALWAYS case-insensitive.

This specification changes this ABNF to:

parameter := regular-parameter / extended-parameter

regular-parameter := regular-parameter-name "=" value

regular-parameter-name := attribute [section]

attribute := 1*attribute-char

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attribute-char := <any (US-ASCII) CHAR except SPACE, CTLs,
 "\"", "'", "%", or tspecials>

section := initial-section / other-sections

initial-section := "*"0"

other-sections := "*" ("1" / "2" / "3" / "4" / "5" /
"6" / "7" / "8" / "9") *DIGIT)

extended-parameter := (extended-initial-name "="
extended-value) /
(extended-other-names "="
extended-other-values)

extended-initial-name := attribute [initial-section] "*"

extended-other-names := attribute other-sections "*"

extended-initial-value := [charset] "" [language] ""
extended-other-values

extended-other-values := *(ext-octet / attribute-char)

ext-octet := "%" 2(DIGIT / "A" / "B" / "C" / "D" / "E" / "F")

charset := <registered character set name>

language

:= <registered language tag [RFC-1766]>

The ABNF given in RFC 2047 for encoded-words is:

encoded-word := "=" charset "?" encoding "?" encoded-text "?="

This specification changes this ABNF to:

encoded-word := "=" charset ["*" language] "?" encoded-text "?="

8. Character sets which allow specification of language

In the future it is likely that some character sets will provide facilities for inline language labeling. Such facilities are inherently more flexible than those defined here as they allow for language switching in the middle of a string.

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If and when such facilities are developed they SHOULD be used in preference to the language labeling facilities specified here. Note that all the mechanisms defined here allow for the omission of language labels so as to be able to accommodate this possible future usage.

9. Security Considerations

This RFC does not discuss security issues and is not believed to raise any security issues not already endemic in electronic mail and present in fully conforming implementations of MIME.

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11. Authors' Addresses

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Freed & Moore Standards Track [Page 9]

RFC 2231 MIME Value and Encoded Word Extensions November 1997

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Freed & Moore Standards Track [Page 10]

Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2231 MIME Parameter Value and Encoded
Word Extensions.txt

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Network Working Group	G. Vaudreuil
Request for Comments: 3462	Lucent Technologies
Obsoletes: 1892	January 2003
Category: Standards Track	

The Multipart/Report Content Type
for the Reporting of
Mail System Administrative Messages

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

The Multipart/Report Multipurpose Internet Mail Extensions (MIME)

content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

This document is part of a four document set describing the delivery status report service. This collection includes the Simple Mail Transfer Protocol (SMTP) extensions to request delivery status reports, a MIME content for the reporting of delivery reports, an enumeration of extended status codes, and a multipart container for the delivery report, the original message, and a human-friendly summary of the failure.

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Document Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14, RFC 2119 [RFC2119].

1. The Multipart/Report Content Type

The Multipart/Report MIME content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

The Multipart/Report content-type is defined as follows:

MIME type name: multipart
 MIME subtype name: report
 Required parameters: boundary, report-type
 Optional parameters: none
 Encoding considerations: 7bit should always be adequate
 Security considerations: see section 3 of this memo

The syntax of Multipart/Report is identical to the Multipart/Mixed content type defined in [MIME]. When used to send a report, the Multipart/Report content-type must be the top-level MIME content type for any report message. The report-type parameter identifies the type of report. The parameter is the MIME content sub-type of the second body part of the Multipart/Report.

User agents and gateways must be able to automatically determine that a message is a mail system report and should be processed as such. Placing the Multipart/Report as the outermost content provides a mechanism whereby an auto-processor may detect through parsing the RFC 822 headers that the message is a report.

The Multipart/Report content-type contains either two or three sub-parts, in the following order:

1) [Required] The first body part contains human readable message. The purpose of this message is to provide an easily understood description of the condition(s) that caused the report to be generated, for a human reader who may not have a user agent capable of interpreting the second section of the Multipart/Report.

The text in the first section may be in any MIME standards-track content-type, charset, or language. Where a description of the error is desired in several languages or several media, a Multipart/Alternative construct may be used.

This body part may also be used to send detailed information that cannot be easily formatted into a Message/Report body part.

(2) [Required] A machine parsable body part containing an account of the reported message handling event. The purpose of this body part is to provide a machine-readable description of the condition(s) that caused the report to be generated, along with details not present in the first body part that may be useful to human experts. An initial body part, Message/delivery-status is defined in [DSN].

(3) [Optional] A body part containing the returned message or a portion thereof. This information may be useful to aid human experts in diagnosing problems. (Although it may also be useful to allow the sender to identify the message which the report was issued, it is hoped that the envelope-id and original-recipient-address returned in the

Message/Report body part will replace the traditional use of the returned content for this purpose.)

Return of content may be wasteful of network bandwidth and a variety of implementation strategies can be used. Generally the sender should choose the appropriate strategy and inform the recipient of the required level of returned content required. In the absence of an explicit request for level of return of content such as that provided in [DRPT], the agent that generated the delivery service

report should return the full message content.

When 8-bit or binary data not encoded in a 7 bit form is to be returned, and the return path is not guaranteed to be 8-bit or binary capable, two options are available. The original message MAY be re-encoded into a legal 7-bit MIME message or the Text/RFC822-Headers content-type MAY be used to return only the original message headers.

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2. The Text/RFC822-Headers content-type

The Text/RFC822-Headers MIME content-type provides a mechanism to label and return only the RFC 822 headers of a failed message. These headers are not the complete message and should not be returned as a Message/RFC822. The returned headers are useful for identifying the failed message and for diagnostics based on the received lines.

The Text/RFC822-Headers content-type is defined as follows:

MIME type name: Text

MIME subtype name: RFC822-Headers

Required parameters: None

Optional parameters: None

Encoding considerations: 7 bit is sufficient for normal RFC822 headers, however, if the headers are broken and require encoding to make them legal 7 bit content, they may be encoded in quoted-printable.

Security considerations: See section 3 of this memo.

The Text/RFC822-Headers

body part should contain all the RFC822

header lines from the message which caused the report. The RFC822 headers include all lines prior to the blank line in the message.

They include the MIME-Version and MIME Content-Headers.

3. Security Considerations

Automated use of report types without authentication presents several

security issues. Forging negative reports presents the opportunity for denial-of-service attacks when the reports are used for automated maintenance of directories or mailing lists. Forging positive reports may cause the sender to incorrectly believe a message was delivered when it was not.

A signature covering the entire multipart/report structure could be used to prevent such forgeries; such a signature scheme is, however, beyond the scope of this document.

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2003

4. Normative References

[SMTP] Postel, J., "Simple Mail Transfer Protocol", STD 10, RFC 821, August 1982.

[DSN] Moore, K., and G. Vaudreuil, "An Extensible Message Format for Delivery Status Notifications", RFC 3464, January 2003.

[RFC822] Crocker, D., "Standard for the format of ARPA Internet Text Messages", STD 11, RFC 822, August 1982.

[MIME] Borenstein, N. and N. Freed, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[DRPT] Moore, K., "SMTP Service Extension for Delivery Status Notifications", RFC 3461, January 2003.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

Vaudreuil Standards Track [Page 5]

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January 2003

Appendix A - Changes from RFC 1892

Changed Authors contact information

Updated required standards boilerplate

Edited the text to make it spell-checker and grammar checker compliant

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INFORMATIONAL

Errata

Network Working Group

J. Klensin

Request for Comments: 3696

February 2004

Category: Informational

Application Techniques for Checking and Transformation of Names

Status of this Memo

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Abstract

Many Internet applications have been designed to deduce top-level domains (or other domain name labels) from partial information. The introduction of new top-level domains, especially non-country-code ones, has exposed flaws in some of the methods used by these applications. These flaws make it more difficult, or impossible, for users of the applications to access the full Internet. This memo discusses some of the techniques that have been used and gives some guidance for minimizing their negative impact as the domain name environment evolves. This document draws summaries of the applicable rules together in one place and supplies references to the actual standards.

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1. Introduction

Designers of user interfaces to Internet applications have often found it useful to examine user-provided values for validity before passing them to

the Internet tools themselves. This type of test, most commonly involving syntax checks or application of other rules to domain names, email addresses, or "web addresses" (URLs or, occasionally, extended URI forms (see Section 4)) may enable better-quality diagnostics for the user than might be available from the protocol itself. Local validity tests on values are also thought to improve the efficiency of back-office processing programs and to reduce the load on the protocols themselves. Certainly, they are consistent with the well-established principle that it is better to detect errors as early as possible.

The tests must, however, be made correctly or at least safely. If criteria are applied that do not match the protocols, users will be inconvenienced, addresses and sites will effectively become inaccessible to some groups, and business and communications opportunities will be lost. Experience in recent years indicates that syntax tests are often performed incorrectly and that tests for top-level domain names are applied using obsolete lists and conventions. We assume that most of these incorrect tests are the result of the inability to conveniently locate exact definitions for the criteria to be applied. This document draws summaries of the applicable rules together in one place and supplies references to the

actual standards. It does not add anything to those standards; it merely draws the information together into a form that may be more accessible.

Many experts on Internet protocols believe that tests and rules of these sorts should be avoided in applications and that the tests in the protocols and back-office systems should be relied on instead. Certainly implementations of the protocols cannot assume that the

data passed to them will be valid. Unless the standards specify particular behavior, this document takes no position on whether or not the testing is desirable. It only identifies the correct tests to be made if tests are to be applied.

The sections that follow discuss domain names, email addresses, and

URLs.

2. Restrictions on domain (DNS) names

The authoritative definitions of the format and syntax of domain names appear in RFCs 1035 [RFC1035], 1123 [RFC1123], and 2181 [RFC2181].

Any characters, or combination of bits (as octets), are permitted in DNS names. However, there is a preferred form that is required by most applications. This preferred form has been the only one permitted in the names of top-level domains, or TLDs. In general, it is also the only form permitted in most second-level names registered in TLDs, although some names that are normally not seen by users obey other rules. It derives from the original ARPANET rules

for the

naming of hosts (i.e., the "hostname" rule) and is perhaps better described as the "LDH rule", after the characters that it permits.

The LDH rule, as updated, provides that the labels (words or strings separated by periods) that make up a domain name must consist of only the ASCII [ASCII] alphabetic and numeric characters, plus the hyphen.

No other symbols or punctuation characters are permitted, nor is blank space. If the hyphen is used, it is not permitted to appear at either the beginning or end of a label. There is an additional rule that essentially requires that top-level domain names not be all-numeric.

When it is necessary to express labels with non-character octets, or to embed periods within labels, there is a mechanism for keying them in that utilizes an escape sequence. RFC 1035 [RFC1035] should be consulted if that mechanism is needed (most common applications, including email and the Web, will generally not permit those escaped

strings). A special encoding is now available for non-ASCII characters, see the brief discussion in Section 5.

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Most internet applications that reference other hosts or systems assume they will be supplied with "fully-qualified" domain names, i.e., ones that include all of the labels leading to the root, including the TLD name. Those fully-qualified domain names are then

passed to either the domain name resolution protocol itself or to the remote systems. Consequently, purported DNS names to be used in applications and to locate resources generally must contain at least one period (".") character. Those that do not are either invalid or require the application to supply additional information. Of course, this principle does not apply when the purpose of the application is to process or query TLD names themselves. The DNS specification also permits a trailing period to be used to denote the root, e.g., "a.b.c" and "a.b.c." are equivalent, but the latter is more explicit and is required to be accepted by applications. This convention is especially important when a TLD name is being referred to directly. For example, while ".COM" has become the popular terminology for referring to that top-level domain, "COM." would be strictly and technically correct in talking about the DNS, since it shows that "COM" is a top-level domain name.

There is a long history of applications moving beyond the "one or more periods" test in an attempt to verify that a valid TLD name is actually present. They have done this either by applying some heuristics to the form of the name or by consulting a local list of valid names. The historical heuristics are no longer effective. If one is to keep a local list, much more effort must be devoted to keeping it up-to-date than was the case several years ago.

The heuristics were based on the observation that, since the DNS was first deployed, all top-level domain names were two, three, or four characters in length. All two-character names were associated with "country code" domains, with the specific labels (with a few early exceptions) drawn from the ISO list of codes for countries and similar entities [IS3166]. The three-letter names were "generic" TLDs, whose function was not country-specific, and there was exactly one four-letter TLD, the infrastructure domain "ARPA." [RFC1591]. However, these length-dependent rules were conventions, rather than anything on which the protocols depended.

Before the mid-1990s, lists of valid top-level domain names changed infrequently. New country codes were gradually, and then more rapidly, added as the Internet expanded, but the list of generic domains did not change at all between the establishment of the "INT." domain in 1988 and ICANN's allocation of new generic TLDs in 2000. Some application developers responded by assuming that any two-letter domain name could be valid as a TLD, but the list of generic TLDs was fixed and could be kept locally and tested. Several of these assumptions changed as ICANN started to allocate new top-level

domains: one two-letter domain that does not appear in the ISO 3166-1 table [ISO.3166.1988] was tentatively approved, and new domains were created with three, four, and even six letter codes.

As of the first quarter of 2003, the list of valid, non-country, top-level domains was .AERO, .BIZ, .COM, .COOP, .EDU, .GOV, .INFO, .INT, .MIL, .MUSEUM, .NAME, .NET, .ORG, .PRO, and .ARPA. ICANN is expected to expand that list at regular intervals, so the list that appears here should not be used in testing. Instead, systems that filter by testing top-level domain names should regularly update their local tables of TLDs (both "generic" and country-code-related) by polling the list published by IANA [DomainList]. It is likely that the better strategy has now become to make the "at least one period" test, to verify LDH conformance (including verification that the apparent TLD name is not all-numeric), and then to use the DNS to determine domain name validity, rather than trying to maintain a local list of valid TLD names.

A DNS label may be no more than 63 octets long. This is in the form actually stored; if a non-ASCII label is converted to encoded "punycode" form (see Section 5), the length of that form may restrict the number of actual characters (in the original character set) that can be accommodated. A complete, fully-qualified, domain name must not exceed 255 octets.

Some additional mechanisms for guessing correct domain names when incomplete information is provided have been developed for use with the web and are discussed in Section 4.4.

3. Restrictions on email addresses

Reference documents: RFC 2821 [RFC2821] and RFC 2822 [RFC2822]

Contemporary email addresses consist of a "local part" separated from a "domain part" (a fully-qualified domain name) by an at-sign ("@"). The syntax of the domain part corresponds to that in the previous section. The concerns identified in that section about filtering and lists of names apply to the domain names used in an email context as well. The domain name can also be replaced by an IP address in

square brackets, but that form is strongly discouraged except for testing and troubleshooting purposes.

The local part may appear using the quoting conventions described below. The quoted forms are rarely used in practice, but are required for some legitimate purposes. Hence, they should not be rejected in filtering routines but, should instead be passed to the email system for evaluation by the destination host.

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The exact rule is that any ASCII character, including control characters, may appear quoted, or in a quoted string. When quoting is needed, the backslash character is used to quote the following character. For example

`Abc\@def@example.com`

is a valid form of an email address. Blank spaces may also appear, as in

`Fred\ Bloggs@example.com`

The backslash character may also be used to quote itself, e.g.,

`Joe.\Blow@example.com`

In addition to quoting using the backslash character, conventional double-quote characters may be used to surround strings. For example

`"Abc@def"@example.com`

`"Fred Bloggs"@example.com`

are alternate forms of the first two examples above. These quoted forms are rarely recommended, and are uncommon in practice, but, as discussed above, must be supported by applications that are processing email addresses. In particular, the quoted forms often appear in the context of addresses associated with transitions from other systems and contexts; those transitional requirements do still

arise and, since a system that accepts a user-provided email address cannot "know" whether that address is associated with a legacy system, the address forms must be accepted and passed into the email environment.

Without quotes, local-parts may consist of any combination of alphabetic characters, digits, or any of the special characters

! # \$ % & ' * + - / = ? ^ _ ` . { | } ~

period (".") may also appear, but may not be used to start or end the local part, nor may two or more consecutive periods appear. Stated differently, any ASCII graphic (printing) character other than the at-sign ("@"), backslash, double quote, comma, or square brackets may appear without quoting. If any of that list of excluded characters are to appear, they must be quoted. Forms such as

user+mailbox@example.com

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customer/department=shipping@example.com

\$A12345@example.com

!def!xyz%abc@example.com

_somename@example.com

are valid and are seen fairly regularly, but any of the characters listed above are permitted. In the context of local parts, apostrophe (") and acute accent ("`") are ordinary characters, not quoting characters. Some of the characters listed above are used in conventions about routing or other types of special handling by some receiving hosts. But, since there is no way to know whether the remote host is using those conventions or just treating these characters as normal text, sending programs (and programs evaluating address validity) must simply accept the strings and pass them on.

In addition to restrictions on syntax, there is a length limit on

email addresses. That limit is a maximum of 64 characters (octets) in the "local part" (before the "@") and a maximum of 255 characters (octets) in the domain part (after the "@") for a total length of 320 characters. Systems that handle email should be prepared to process addresses which are that long, even though they are rarely encountered.

4. URLs and URIs

4.1. URI syntax definitions and issues

The syntax for URLs (Uniform Resource Locators) is specified in [RFC1738]. The syntax for the more general "URI" (Uniform Resource Identifier) is specified in [RFC2396]. The URI syntax is extremely general, with considerable variations permitted according to the type of "scheme" (e.g., "http", "ftp", "mailto") that is being used.

While it is possible to use the general syntax rules of RFC 2396 to perform syntax checks, they are general enough --essentially only specifying the separation of the scheme name and "scheme specific part" with a colon (":") and excluding some characters that must be escaped if used-- to provide little significant filtering or validation power.

The following characters are reserved in many URIs -- they must be used for either their URI-intended purpose or must be encoded. Some particular schemes may either broaden or relax these restrictions (see the following sections for URLs applicable to "web pages" and electronic mail), or apply them only to particular URI component parts.

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; / ? : @ & = + \$, ?

In addition, control characters, the space character, the double-quote (") character,
and the following special characters

< > # %

are generally forbidden and must either be avoided or escaped, as discussed below.

The colon after the scheme name, and the percent sign used to escape characters, are specifically reserved for those purposes, although ":" may also be used elsewhere in some schemes.

When it is necessary to encode these, or other, characters, the method used is to replace it with a percent-sign ("%") followed by two hexadecimal digits representing its octet value. See section 2.4.1 of [RFC2396] for an exact definition. Unless it is used as a delimiter of the URI scheme itself, any character may optionally be encoded this way; systems that are testing URI syntax should be prepared for these encodings to appear in any component of the URI except the scheme name itself.

A "generic URI" syntax is specified and is more restrictive, but using it to test URI strings requires that one know whether or not

the particular scheme in use obeys that syntax. Consequently, applications that intend to check or validate URIs should normally identify the scheme name and then apply scheme-specific tests. The rules for two of those -- HTTP [RFC1738] and MAILTO [RFC2368] URLs -- are discussed below, but the author of an application which intends to make very precise checks, or to reject particular syntax rather than just warning the user, should consult the relevant scheme-definition documents for precise syntax and relationships.

4.2. The HTTP URL

Absolute HTTP URLs consist of the scheme name, a host name (expressed as a domain name or IP address), and optional port number, and then, optionally, a path, a search part, and a fragment identifier. These are separated, respectively, by a colon and the two slashes that precede the host name, a colon, a slash, a question mark, and a hash mark ("#"). So we have

`http://host:port/path?search#fragment`

`http://host/path/`

`http://host/path#fragment`

http://host/path?search

http://host

and other variations on that form. There is also a "relative" form, but it almost never appears in text that a user might, e.g., enter into a form. See [RFC2616] for details.

The characters

/ ; ?

are reserved within the path and search parts and must be encoded; the first of these may be used unencoded, and is often used within the path, to designate hierarchy.

4.3. The MAILTO URL

MAILTO is a URL type whose content is an email address. It can be used to encode any of the email address formats discussed in Section 3 above. It can also support multiple addresses and the inclusion of headers (e.g., Subject lines) within the body of the URL. MAILTO is authoritatively defined in RFC 2368

[RFC2368]; anyone expecting to accept and test multiple addresses or mail header or body formats should consult that document carefully.

In accepting text for, or validating, a MAILTO URL, it is important to note that, while it can be used to encode any valid email address, it is not sufficient to copy an email address into a MAILTO URL since email addresses may include a number of characters that are invalid in, or have reserved uses for, URLs. Those characters must be encoded, as outlined in Section 4.1 above, when the addresses are mapped into the URL form. Conversely, addresses in MAILTO URLs cannot, in general, be copied directly into email contexts, since few email programs will reverse the decodings (and doing so might be interpreted as a protocol violation).

The following characters may appear in MAILTO URLs only with the specific defined meanings given. If they appear in an email address (i.e., for some other purpose), they must be encoded:

: The colon in "mailto:"

< > # " % { } | \ ^ ~ `

These characters are "unsafe" in any URL, and must always be

encoded.

The following characters must also be encoded if they appear in a
MAILTO URL

? & =
Used to delimit headers and their values when these are encoded
into URLs.

Some examples may be helpful:

+-----+-----+-----+		
Email address	MAILTO URL	Notes
+-----+-----+-----+		
Joe@example.com	mailto:joe@example.com	1
user+mailbox@example.com	mailto:	2
user%2Bmailbox@example.com		
customer/department=shipping@example.com	mailto:customer%2Fdepartment=shipping@example.com	3
\$A12345@example.com	mailto:\$A12345@example.com	4
!def!xyz%abc@example.com	mailto:!def!xyz%25abc@example.com	5
_somename@example.com	mailto:_somename@example.com	4
+-----+-----+-----+		

Table 1

Notes on Table

1. No characters appear in the email address that require escaping, so the body of the MAILTO URL is identical to the email address.
2. There is actually some uncertainty as to whether or not the "+" characters requires escaping in MAILTO URLs (the standards are not precisely clear). But, since any character in the address specification may optionally be encoded, it is probably safer to encode it.
3. The "/" character is generally reserved in URLs, and must be encoded as %2F.

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4. Neither the "\$" nor the "_" character are given any special interpretation in MAILTO URLs, so need not be encoded.
5. While the "!" character has no special interpretation, the "%" character is used to introduce encoded sequences and hence it must always be encoded.

4.4. Guessing domain names in web contexts

Several web browsers have adopted a practice that permits an incomplete domain name to be used as input instead of a complete URL. This has, for example, permitted users to type "microsoft" and have the browser interpret the input as "http://www.microsoft.com/". Other browser versions have gone even further, trying to build DNS names up through a series of heuristics, testing each variation in turn to see if it appears in the DNS, and accepting the first one found as the intended domain name. Still, others automatically invoke search engines if no period appears or if the reference fails. If any of these approaches are to be used, it is often critical that the browser recognize the complete list of TLDs. If an incomplete list is used, complete domain names may not be recognized as such and the system may try to turn them into completely different names. For example, "example.aero" is a fully-qualified name, since "AERO." is a TLD name. But, if the system doesn't recognize "AERO" as a TLD name, it is likely to try to look up "example.aero.com" and "www.example.aero.com" (and then fail or find the wrong host), rather

than simply looking up the user-supplied name.

As discussed in Section 2 above, there are dangers associated with software that attempts to "know" the list of top-level domain names locally and take advantage of that knowledge. These name-guessing heuristics are another example of that situation: if the lists are up-to-date and used carefully, the systems in which they are embedded may provide an easier, and more attractive, experience for at least some users. But finding the wrong host, or being unable to find a host even when its name is precisely known, constitute bad experiences by any measure.

More generally, there have been bad experiences with attempts to "complete" domain names by adding additional information to them. These issues are described in some detail in RFC 1535 [RFC1535].

5. Implications of internationalization

The IETF has adopted a series of proposals ([RFC3490] - [RFC3492]) whose purpose is to permit encoding internationalized (i.e., non-ASCII) names in the DNS. The primary standard, and the group generically, are known as "IDNA". The actual strings stored in the

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DNS are in an encoded form: the labels begin with the characters "xn--" followed by the encoded string. Applications should be prepared to accept and process the encoded form (those strings are consistent with the "LDH rule" (see Section 2) so should not raise any separate issues) and the use of local, and potentially other, characters as appropriate to local systems and circumstances.

The IDNA specification describes the exact process to be used to validate a name or encoded string. The process is sufficiently complex that shortcuts or heuristics, especially for versions of labels written directly in Unicode or other coded character sets, are likely to fail and cause problems. In particular, the strings cannot be validated with syntax or semantic rules of any of the usual sorts: syntax validity is defined only in terms of the result of executing a particular function.

In addition to the restrictions imposed by the protocols themselves, many domains are implementing rules about just which non-ASCII names they will permit to be registered (see, e.g., [JET], [RegRestr]). This work is still relatively new, and the rules and conventions are likely to be different for each domain, or at least each language or script group. Attempting to test for those rules in a client program to see if a user-supplied name might possibly exist in the relevant domain would almost certainly be ill-advised.

One quick local test however, may be reasonable: as of the time of this writing, there should be no instances of labels in the DNS that start with two characters, followed by two hyphens, where the two characters are not "xn" (in, of course, either upper or lower case). Such label strings, if they appear, are probably erroneous or obsolete, and it may be reasonable to at least warn the user about them.

There is ongoing work in the IETF and elsewhere to define internationalized formats for use in other protocols, including email addresses. Those forms may or may not conform to existing rules for ASCII-only identifiers; anyone designing evaluators or filters should watch that work closely.

6. Summary

When an application accepts a string from the user and ultimately passes it on to an API for a protocol, the desirability of testing or filtering the text in any way not required by the protocol itself is hotly debated. If it must divide the string into its components, or otherwise interpret it, it obviously must make at least enough tests to validate that process. With, e.g., domain names or email addresses that can be passed on untouched, the appropriateness of

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trying to figure out which ones are valid and which ones are not requires a more complex decision, one that should include considerations of how to make exactly the correct tests and to keep information that changes and evolves up-to-date. A test containing obsolete information, can be extremely frustrating for potential correspondents or customers

and may harm desired relationships.

7. Security Considerations

Since this document merely summarizes the requirements of existing standards, it does not introduce any new security issues. However, many of the techniques that motivate the document raise important security concerns of their own. Rejecting valid forms of domain names, email addresses, or URIs often denies service to the user of those entities. Worse, guessing at the user's intent when an incomplete address, or other string, is given can result in compromises to privacy or accuracy of reference if the wrong target is found and returned. From a security standpoint, the optimum behavior is probably to never guess, but instead, to force the user to specify exactly what is wanted. When that position involves a tradeoff with an acceptable user experience, good judgment should be used and the fact that it is a tradeoff recognized.

Some characters have special or privileged meanings

on some systems

(i.e., ``` on Unix). Applications should be careful to escape those locally if necessary. By the same token, they are valid, and should not be disallowed locally, or escaped when transmitted through Internet protocols, for such reasons if a remote site chooses to use them.

The presence of local checking does not permit remote checking to be bypassed. Note that this can apply to a single machine; in particular, a local MTA should not assume that a local MUA has properly escaped locally-significant special characters.

8. Acknowledgements

The author would like to express his appreciation for helpful comments from Harald Alvestrand, Eric A. Hall, and the RFC Editor, and for partial support of this work from SITA. Responsibility for any errors remains, of course, with the author.

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for revisions on 19 August, and resubmitted on 5 September 2003.

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[DomainList] Internet Assigned Numbers Authority (IANA), Untitled

alphabetical list of current top-level domains.
<http://data.iana.org/TLD/tlds-alpha-by-domain.txt>
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Request for Comments: 4234	Brandenburg InternetWorking
Obsoletes: 2234	P. Overell
Category: Standards Track	THUS plc.
	October 2005

Augmented BNF for Syntax Specifications: ABNF

Status of This Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

Internet technical specifications often need to define a formal syntax. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications. The current specification documents ABNF. It balances compactness and simplicity, with reasonable representational power. The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges. This specification also supplies additional rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications.

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1. INTRODUCTION

Internet technical specifications often need to define a formal syntax and are free to employ whatever notation their authors deem useful. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications.

It balances compactness and simplicity, with reasonable representational power. In the early days of the Arpanet, each specification contained its own definition of ABNF. This included the email specifications, [RFC733] and then [RFC822], which came to be the common citations for defining ABNF. The current document separates those definitions to permit selective reference. Predictably, it also provides some modifications and enhancements.

The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges.

Appendix B supplies rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications. It

is provided as a convenience and is otherwise separate from the meta

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language defined
in the body of this document, and separate from its
formal status.

Changes since [RFC2234]:

In Section 3.7, the phrase: "That is, exactly <N> occurrences of
<element>." was corrected to: "That is, exactly <n> occurrences of
<element>."

Some continuation comment lines needed to be corrected to begin
with comment character (";").

2. RULE DEFINITION

2.1. Rule Naming

The name of a rule is simply the name itself; that is, a sequence of
characters, beginning with an alphabetic character, and followed by a
combination of alphabets, digits, and hyphens (dashes).

NOTE:

Rule names are case-insensitive

The names <rulename>, <RuleName>, <RULENAME>, and <rUIENamE> all
refer to the same rule.

Unlike original BNF, angle brackets ("<", ">") are not required.
However, angle brackets may be used around a rule name whenever their
presence facilitates in discerning the use of a rule name. This is
typically restricted
to rule name references in free-form prose, or
to distinguish partial rules that combine into a string not separated
by white space, such as shown in the discussion about repetition,
below.

2.2. Rule Form

A rule is defined by the following sequence:

name = elements crlf

where <name> is the name of the rule, <elements> is one or more rule names or terminal specifications, and <crlf> is the end-of-line indicator (carriage return followed by line feed). The equal sign separates the name from the definition of the rule. The elements form a sequence of one or more rule names and/or value definitions, combined according to the various operators defined in this document, such as alternative and repetition.

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For visual ease, rule definitions are left aligned. When a rule requires multiple lines, the continuation lines are indented. The left alignment and indentation are relative to the first lines of the ABNF rules and need not match the left margin of the document.

2.3. Terminal Values

Rules resolve into a string of terminal values, sometimes called characters. In ABNF, a character is merely a non-negative integer. In certain contexts, a specific mapping (encoding) of values into a character set (such as ASCII) will be specified.

Terminals are specified by one or more numeric characters, with the base interpretation of those characters indicated explicitly. The following bases are currently defined:

b = binary

d = decimal

x = hexadecimal

Hence:

CR = %d13

CR = %x0D

respectively specify the decimal and hexadecimal representation of [US-ASCII] for carriage return.

A concatenated string of such values is specified compactly, using a period (".") to indicate a separation of characters within that value. Hence:

`CRLF = %d13.10`

ABNF permits the specification of literal text strings directly, enclosed in quotation-marks. Hence:

`command = "command string"`

Literal text strings are interpreted as a concatenated set of printable characters.

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NOTE:

ABNF strings are case-insensitive and the character set for these strings is us-ascii.

Hence:

`rulename = "abc"`

and:

`rulename = "aBc"`

will match "abc", "Abc", "aBc", "abC", "ABc", "aBC", "AbC", and "ABC".

To specify a rule that IS case SENSITIVE, specify the characters individually.

For example:

```
rulename = %d97 %d98 %d99
```

or

```
rulename = %d97.98.99
```

will match only
the string that comprises only the lowercased
characters, abc.

2.4. External Encodings

External representations of terminal value characters will vary according to constraints in the storage or transmission environment. Hence, the same ABNF-based grammar may have multiple external encodings, such as one for a 7-bit US-ASCII environment, another for a binary octet environment, and still a different one when 16-bit Unicode is used. Encoding details are beyond the scope of ABNF, although Appendix A (Core) provides definitions for a 7-bit US-ASCII environment as has been common to much of the Internet.

By separating external encoding from the syntax, it is intended that alternate encoding environments can be used for the same syntax.

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3. OPERATORS

3.1. Concatenation: Rule1 Rule2

A rule can
define a simple, ordered string of values (i.e., a
concatenation of contiguous characters) by listing a sequence of rule
names. For example:

```
foo = %x61 ; a
```

bar = %x62 ; b

mumble = foo bar foo

So that the rule <mumble> matches the lowercase string "aba".

LINEAR WHITE SPACE: Concatenation is at the core of the ABNF parsing model. A string of contiguous characters (values) is parsed according to the rules defined in ABNF. For Internet specifications, there is some history of permitting linear white space (space and horizontal tab) to be freely and implicitly interspersed around major constructs, such as delimiting special characters or atomic strings.

NOTE:

This specification for ABNF does not provide for implicit specification of linear white space.

Any grammar that wishes to permit linear white space around delimiters or string segments must specify it explicitly.

It is

often useful to provide for such white space in "core" rules that are then used variously among higher-level rules. The "core" rules might be formed into a lexical analyzer or simply be part of the main ruleset.

3.2. Alternatives: Rule1 / Rule2

Elements separated by a forward slash ("/") are alternatives. Therefore,

foo / bar

will accept <foo> or <bar>.

NOTE:

A quoted string containing alphabetic characters is a special form for specifying alternative characters and is interpreted as a non-terminal representing the set of combinatorial strings with the contained characters, in the specified order but with any mixture of upper and lower case.

3.3. Incremental Alternatives: Rule1 =/ Rule2

It is sometimes convenient to specify a list of alternatives in fragments. That is, an initial rule may match one or more alternatives, with later rule definitions adding to the set of alternatives. This is particularly useful for otherwise, independent specifications that derive from the same parent rule set, such as often occurs with parameter lists. ABNF permits this incremental definition through the construct:

oldrule =/ additional-alternatives

So that the rule set

ruleset = alt1 / alt2

ruleset =/ alt3

ruleset =/ alt4 / alt5

is the same as specifying

ruleset = alt1 / alt2 / alt3 / alt4 / alt5

3.4. Value Range Alternatives: %c##-##

A range of alternative numeric values can be specified compactly, using dash ("-") to indicate the range of alternative values. Hence:

DIGIT = %x30-39

is equivalent to:

DIGIT = "0" / "1" / "2" / "3" / "4" / "5" / "6" /
"7" / "8" / "9"

Concatenated numeric values and numeric value ranges cannot be specified in the same string. A numeric value may use the dotted

notation for concatenation or it may use the dash notation to specify

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one value range. Hence, to specify one printable character between end of line sequences, the specification could be:

char-line = %x0D.0A %x20-7E %x0D.0A

3.5. Sequence Group: (Rule1 Rule2)

Elements enclosed in parentheses are treated as a single element, whose contents are **STRICTLY ORDERED**. Thus,

elem (foo / bar) blat

matches (elem foo blat) or (elem bar blat), and

elem foo / bar blat

matches (elem foo) or (bar blat).

NOTE:

It is strongly advised that grouping notation be used, rather than relying on the proper reading of "bare" alternations, when alternatives consist of multiple rule names or literals.

Hence, it is recommended that the following form be used:

(elem foo) / (bar blat)

It will avoid misinterpretation by casual readers.

The sequence group notation is also used within free text to set off an element sequence from the prose.

3.6. Variable Repetition: *Rule

The operator "*" preceding an element indicates repetition. The full form is:

`<a>*element`

where `<a>` and `` are optional decimal values, indicating at least `<a>` and at most `` occurrences of the element.

Default values are 0 and infinity so that `*<element>` allows any number, including zero; `1*<element>` requires at least one; `3*3<element>` allows exactly 3 and `1*2<element>` allows one or two.

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3.7. Specific Repetition: `nRule`

A rule of the form:

`<n>element`

is equivalent to

`<n>*<n>element`

That is, exactly `<n>` occurrences of `<element>`. Thus, `2DIGIT` is a 2-digit number, and `3ALPHA` is a string of three alphabetic characters.

3.8. Optional Sequence: `[RULE]`

Square brackets enclose an optional element sequence:

`[foo bar]`

is equivalent to

`*1(foo bar).`

3.9. Comment: `; Comment`

A semi-colon starts a comment that continues to the end of line. This is a simple way of including useful notes in parallel with the specifications.

3.10. Operator Precedence

The various mechanisms described above have the following precedence, from highest (binding tightest) at the top, to lowest (loosest) at the bottom:

Strings, Names formation

Comment

Value range

Repetition

Grouping, Optional

Concatenation

Alternative

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Use of the alternative operator, freely mixed with concatenations, can be confusing.

Again, it is recommended that the grouping operator be used to make explicit concatenation groups.

4. ABNF DEFINITION OF ABNF

NOTES:

1. This syntax requires a formatting of rules that is relatively strict. Hence, the version of a ruleset included in a specification might need preprocessing to ensure that it can be interpreted by an ABNF parser.
2. This syntax uses the rules provided in Appendix B (Core).

rulelist = 1*(rule / (*c-wsp c-nl))

rule = rulename defined-as elements c-nl

; continues if next line starts
 ; with white space

 rulename = ALPHA *(ALPHA / DIGIT / "-")

 defined-as = *c-wsp ("=" / "=/") *c-wsp
 ; basic
 rules definition and
 ; incremental alternatives

 elements = alternation *c-wsp

 c-wsp = WSP / (c-nl WSP)

 c-nl = comment / CRLF
 ; comment or newline

 comment = ";" *(WSP / VCHAR) CRLF

 alternation = concatenation
 *(*c-wsp "/" *c-wsp concatenation)

 concatenation = repetition *(1*c-wsp repetition)

 repetition = [repeat] element

 repeat = 1*DIGIT / (*DIGIT "*" *DIGIT)

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element = rulename / group / option /
 char-val / num-val / prose-val

 group = "(" *c-wsp alternation *c-wsp ")"

 option = "[" *c-wsp alternation *c-wsp "]"

 char-val
 = DQUOTE *(%x20-21 / %x23-7E) DQUOTE
 ; quoted string of SP and VCHAR
 ; without DQUOTE

num-val = "%" (bin-val / dec-val / hex-val)

bin-val = "b" 1*BIT
[1*("." 1*BIT) / ("-" 1*BIT)]
; series of concatenated bit values
; or single ONEOF range

dec-val = "d" 1*DIGIT
[1*("." 1*DIGIT) / ("-" 1*DIGIT)]

hex-val = "x" 1*HEXDIG
[1*("." 1*HEXDIG) / ("-" 1*HEXDIG)]

prose-val = "<" *(%x20-3D / %x3F-7E) ">"
; bracketed string of SP and VCHAR
; without angles
; prose description, to be used as
; last resort

5. SECURITY CONSIDERATIONS

Security is truly believed
to be irrelevant to this document.

6. References

6.1. Normative References

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Appendix A. ACKNOWLEDGEMENTS

The syntax for ABNF was originally specified in RFC 733. Ken L. Harrenstien, of SRI International, was responsible for re-coding the BNF into an augmented BNF that makes the representation smaller and easier to understand.

This recent project began as a simple effort to cull out the portion of RFC 822 that has been repeatedly cited by non-email specification writers, namely the description of augmented BNF. Rather than simply and blindly converting the existing text into a separate document, the working group chose to give careful consideration to the deficiencies, as well as benefits, of the existing specification and related specifications made available over the last 15 years, and therefore to pursue enhancement. This turned the project into something rather more ambitious than was first intended.

Interestingly, the result is not massively different from that original, although decisions, such as removing the list notation, came as a surprise.

This "separated" version of the specification was part of the DRUMS working group, with significant contributions from Jerome Abela, Harald Alvestrand, Robert Elz, Roger Fajman, Aviva Garrett, Tom Harsch, Dan Kohn, Bill McQuillan, Keith Moore, Chris Newman, Pete Resnick, and Henning Schulzrinne.

Julian Reschke warrants a special thanks for converting the Draft Standard version to XML source form.

Appendix B. APPENDIX - CORE ABNF OF ABNF

This Appendix is provided as a convenient core for specific grammars. The definitions may be used as a core set of rules.

B.1. Core Rules

Certain basic rules are in uppercase, such as SP, HTAB, CRLF, DIGIT, ALPHA, etc.

ALPHA = %x41-5A / %x61-7A ; A-Z / a-z

BIT = "0" / "1"

CHAR = %x01-7F
; any
7-bit US-ASCII character,
; excluding NUL

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CR = %x0D
; carriage return

CRLF = CR LF
; Internet standard newline

CTL = %x00-1F / %x7F
; controls

DIGIT = %x30-39
; 0-9

DQUOTE = %x22
; " (Double Quote)

HEXDIG = DIGIT / "A" / "B" / "C" / "D" / "E" / "F"

HTAB = %x09
; horizontal tab

LF = %x0A
; linefeed

LWSP = *(WSP / CRLF WSP)
; linear white space (past newline)

OCTET = %x00-FF
; 8 bits of data

SP = %x20

VCHAR = %x21-7E
; visible (printing) characters

WSP = SP / HTAB
; white space

B.2. Common Encoding

Externally, data are represented as "network virtual ASCII" (namely, 7-bit US-ASCII in an 8-bit field), with the high (8th) bit set to zero. A string of values is in "network byte order", in which the higher-valued bytes are represented on the left-hand side and are sent over the network first.

Crocker & Overell Standards Track [Page 14]

RFC 4234 ABNF October 2005

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Crocker & Overell Standards Track [Page 15]

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INFORMATIONAL

Network Working Group
Request for Comments: 4155
Category: Informational

E. Hall
September 2005

The application/mbox Media Type

Status of This Memo

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Abstract

This memo requests that the application/mbox media type be authorized for allocation by the IESG, according to the terms specified in RFC 2048. This memo also defines a default format for the mbox database, which must be supported by all conformant implementations.

1. Background and Overview

UNIX-like operating systems have historically made widespread use of "mbox" database files for a variety of local email purposes. In the common case, mbox files store linear sequences of one or more electronic mail messages, with local email clients treating the database as a logical folder of email messages. mbox databases are also used by a variety of other messaging tools, such as mailing list management programs, archiving and filtering utilities, messaging servers, and other related applications. In recent years, mbox databases have also become common on a large number of non-UNIX computing platforms, for similar kinds of purposes.

The increased pervasiveness of these files has led to an increased demand for a standardized, network-wide interchange of these files as

discrete database objects. In turn, this dictates a need for a general media type definition for mbox files, which is the subject and purpose of this memo.

Hall Informational

[Page 1]

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2. About the mbox Database

The mbox database format is not documented in an authoritative specification, but instead exists as a well-known output format that is anecdotally documented, or which is only authoritatively documented for a specific platform or tool.

mbox databases typically contain a linear sequence of electronic mail messages. Each message begins with a separator line that identifies the message sender, and also identifies the date and time at which the message was received by the final recipient (either the last-hop system in the transfer path, or the system which serves as the recipient's mailstore). Each message is typically terminated by an empty line. The end of the database is usually recognized by either the absence of any additional data, or by the presence of an explicit end-of-file marker.

The structure of the separator lines vary across implementations, but usually contain the exact character sequence of "From", followed by a single Space character (0x20), an email address of some kind, another Space character, a timestamp sequence of some kind, and an end-of-line marker. However, due to the lack of any authoritative specification, each of these attributes are known to vary widely across implementations. For example, the email address can reflect any addressing syntax that has ever been used on any messaging system in all of history (specifically including address forms that are not compatible with Internet messages, as defined by RFC 2822 [RFC2822]). Similarly, the timestamp sequences can also vary according to system output, while the end-of-line sequences will often reflect platform-

specific requirements. Different data formats can even appear within a single database as a result of multiple mbox files being concatenated together, or because a single file was accessed by multiple messaging clients, each of which has used its own syntax for the separator line.

Message data within mbox databases often reflects site-specific peculiarities. For example, it is entirely possible for the message body or headers in an mbox database to contain untagged eight-bit character data that implicitly reflects a site-specific default language or locale, or that reflects local defaults for timestamps and email addresses; none of this data is widely portable beyond the local scope. Similarly, message data can also contain unencoded eight-bit binary data, or can use encoding formats that represent a specific platform (e.g., BINHEX or UUENCODE sequences).

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RFC 4155 The application/mbox Media Type September 2005

Many implementations are also known to escape message body lines that begin with the character sequence of "From ", so as to prevent confusion with overly-liberal parsers that do not search for full separator lines. In the common case, a leading Greater-Than symbol (0x3E) is used for this purpose (with "From " becoming ">From "). However, other implementations are known not to escape such lines unless they are immediately preceded by a blank line or if they also appear to contain an email address and a timestamp. Other implementations are also known to perform secondary escapes against these lines if they are already escaped or quoted, while others ignore these mechanisms altogether.

A comprehensive description of mbox database files on UNIX-like systems can be found at <http://qmail.org/man/man5/mbox.html>, which should be treated as mostly authoritative for those variations that are otherwise only documented in anecdotal form. However, readers are advised that many other platforms and tools make use of mbox databases, and that there are

many more potential variations that can be encountered in the wild.

In order to mitigate errors that may arise from such vagaries, this specification defines a "format" parameter to the application/mbox media type declaration, which can be used to identify the specific kind of mbox database that is being transferred. Furthermore, this specification defines a "default" database format which **MUST** be supported by implementations that claim to be compliant with this specification, and which is to be used as the implicit format for undeclared application/mbox data objects. Additional format types are to be defined in subsequent specifications. Messaging systems that receive an mbox database with an unknown format parameter value **SHOULD** treat the data as an opaque binary object, as if the data had been declared as application/octet-stream

Refer to Appendix A for a description of the default mbox format.

Note that RFC 2046 [RFC2046] defines the multipart/digest media type for transferring platform-independent message files. Because that specification defines a set of neutral and strict formatting rules, the multipart/digest media type already facilitates highly-predictable transfer and conversion operations; as such, implementers are strongly encouraged to support and use that media type where possible.

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3. Prerequisites and Terminology

Readers of this document are expected to be familiar with the specification for MIME [RFC2045] and MIME-type registrations [RFC2048].

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this

document are to be interpreted as described in RFC 2119 [RFC2119].

4. The application/mbox Media Type Registration

This section provides the media type registration application (as per [RFC2048]).

MIME media type name: application

MIME subtype name: mbox

Required parameters: none

Optional parameters: The "format" parameter identifies the format of the mbox database and the messages contained therein. The default value for the "format" parameter is "default", and refers to the formatting rules defined in Appendix A of this memo. mbox databases that do not have a "format" parameter SHOULD be interpreted as having the implicit "format" value of "default". mbox databases that have an unknown value for the "format" parameter SHOULD be treated as opaque data objects, as if the media type had been specified as application/octet-stream. Additional values for the format parameter are to be defined in subsequent specifications, and registered with IANA.

Encoding considerations: If an email client receives an mbox database as a message attachment, and then stores that attachment within a local mbox database, the contents of the two database files may become irreversibly intermingled, such that both databases are rendered unrecognizable. In order to avoid these collisions, messaging systems that support this specification MUST encode an mbox database (or at a minimum, the separator lines) with non-transparent transfer encoding (such as BASE64 or Quoted-Printable) whenever an application/mbox object is transferred via messaging protocols. Other transfer services are generally encouraged to adopt similar encoding strategies in order to allow for any subsequent retransmission that might occur, but this is not a requirement. Implementers should also be prepared to encode mbox data locally if non-compliant data is received.

Security considerations:

mbox data is passive, and does not generally represent a unique or new security threat. However, there is risk in sharing any kind of data, because unintentional information may be exposed, and this risk certainly applies to mbox data as well.

Interoperability considerations: Due to the lack of a single authoritative specification for mbox databases, there are a large number of variations between database formats (refer to the introduction text for common examples), and it is expected that non-conformant data will be erroneously tagged or exchanged. Although the "default" format specified in this memo does not allow for these kinds of vagaries, prior negotiation or agreement between humans may sometimes be needed.

Published specification: see Appendix A.

Applications that use this media type: hundreds of messaging products make use of the mbox database format, in one form or another.

Magic number(s): mbox database files can be recognized by having a leading character sequence of "From", followed by a single Space character (0x20), followed by additional printable character data (refer to the description in Appendix A for details). However, implementers are cautioned that all such files will not be compliant with all of the formatting rules, therefore implementers should treat these files with an appropriate amount of circumspection.

File extension(s): mbox database files sometimes have an ".mbox" extension, but this is not required nor expected. As with magic numbers, implementers should avoid reflexive assumptions about the contents of such files.

Macintosh File Type Code(s): None are known to be common.

Person & email address to contact for further information: Eric A. Hall (ehall@ntrg.com)

Intended usage: COMMON

5. Security Considerations

See the discussion in section 4.

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6. IANA Considerations

The IANA has registered the application/mbox media type in the MIME registry, using the application provided in section 4 above.

Furthermore, IANA has established and will maintain a registry of values for the "format" parameter as described in this memo. The first registration is the "default" value, using the description provided in Appendix A. Subsequent values for the "format" parameter MUST be accompanied by some form of recognizable, complete, and legitimate specification, such as an IESG-approved specification, or some kind of authoritative vendor documentation.

7. Normative References

[RFC2045] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996.

[RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[RFC2048] Freed, N., Klensin, J., and J. Postel, "Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures", BCP 13, RFC 2048, November 1996.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

[RFC2822] Resnick, P., "Internet Message Format", RFC 2822, April 2001.

Appendix A. The "default" mbox Database Format

In order to improve interoperability among messaging systems, this memo defines a "default" mbox database format, which **MUST** be supported by all implementations that claim to be compliant with this specification.

The "default" mbox database format uses a linear sequence of Internet messages, with each message being immediately prefaced by a separator line, and being terminated by an empty line. More specifically:

- o Each message within the database **MUST** follow the syntax and formatting rules defined in RFC 2822 [RFC2822] and its related specifications, with the exception that the canonical mbox database **MUST** use a single Line-Feed character (0x0A) as the end-of-line sequence, and **MUST NOT** use a Carriage-Return/Line-Feed pair (NB: this requirement only applies to the canonical mbox database as transferred, and does not override any other specifications). This usage represents the most common historical representation of the mbox database format, and allows for the least amount of conversion.
- o Messages within the default mbox database **MUST** consist of seven-bit characters within an eight-bit stream. Eight-bit data within the

stream MUST be converted to a seven-bit form (using appropriate, standardized encoding) and appropriately tagged (with the correct header fields) before the database is transferred.

- o Message headers and data in the default mbox database MUST be fully-qualified, as per the relevant specification(s). For example, email addresses in the various header fields MUST have legitimate domain names (as per RFC 2822), while extended characters and encodings MUST be specified in the appropriate location (as per the appropriate MIME specifications), and so forth.

- o Each message in the mbox database MUST be immediately preceded by a single separator line, which MUST conform to the following syntax:

The exact character sequence of "From";

a single Space character (0x20);

the email address of the message sender (as obtained from the message envelope

or other authoritative source), conformant

with the "addr-spec" syntax from RFC 2822;

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a single Space character;

a timestamp indicating the UTC date and time when the message was originally received, conformant with the syntax of the traditional UNIX 'ctime' output sans timezone (note that the use of UTC precludes the need for a timezone indicator);

an end-of-line marker.

- o Each message in the database MUST be terminated by an empty line, containing a single end-of-line marker.

Note that the first message in an mbox database will only be prefaced by a separator line, while every other message will begin with two end-of-line sequences (one at the end of the message itself, and

another to mark the end of the message within the mbox database file stream) and a separator line (marking the new message). The end of the database is implicitly reached when no more message data or separator lines are found.

Also note that this specification does not prescribe any escape syntax for message body lines that begin with the character sequence of "From ". Recipient systems are expected to parse full separator lines as they are documented above.

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RFC 4155 The application/mbox Media Type September 2005

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Network Working Group

J. Klensin, Editor

Request for Comments: 2821

AT&T Laboratories

Obsoletes: 821, 974, 1869

April 2001

Updates: 1123

Category: Standards Track

Simple Mail Transfer Protocol

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

This document is a self-contained specification of the basic protocol for the Internet electronic mail transport. It consolidates, updates and clarifies, but doesn't add new or change existing functionality of the following:

- the original SMTP (Simple Mail Transfer Protocol) specification of RFC 821 [30],
- domain name system requirements and implications for mail transport from RFC 1035 [22] and RFC 974 [27],
- the clarifications and applicability statements in RFC 1123 [2], and
- material drawn from the SMTP Extension mechanisms [19].

It obsoletes RFC 821, RFC 974, and updates RFC 1123 (replaces the mail transport materials of RFC 1123). However, RFC 821 specifies some features that were not in significant use in the Internet by the mid-1990s and (in appendices) some additional transport models.

Those sections are omitted here in the interest of clarity and brevity; readers needing them should refer to RFC 821.

It also includes some additional material from RFC 1123 that required amplification. This material has been identified in multiple ways,

mostly by tracking flaming on various lists and newsgroups and problems of unusual readings or interpretations that have appeared as the SMTP extensions have been deployed. Where this specification moves beyond consolidation and actually differs from earlier documents, it supersedes them technically as well as textually.

Although SMTP was designed as a mail transport and delivery protocol, this specification also contains information that is important to its use as a 'mail submission' protocol, as recommended for POP [3, 26] and IMAP [6]. Additional submission issues are discussed in RFC 2476 [15].

Section 2.3 provides definitions of terms specific to this document. Except when the historical terminology is necessary for clarity, this document uses the current 'client' and 'server' terminology to identify the sending and receiving SMTP processes, respectively.

A companion document [32] discusses message headers, message bodies and formats and structures for them, and their relationship.

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1. Introduction

The objective of the Simple Mail Transfer Protocol (SMTP) is to transfer mail reliably and efficiently.

SMTP is independent of the particular transmission subsystem and requires only a reliable ordered data stream channel. While this document specifically discusses transport over TCP, other transports are possible. Appendices to RFC 821 describe some of them.

An

important feature of SMTP is its capability to transport mail across networks, usually referred to as "SMTP mail relaying" (see section 3.8). A network consists of the mutually-TCP-accessible hosts on the public Internet, the mutually-TCP-accessible hosts on a firewall-isolated TCP/IP Intranet, or hosts in some other LAN or WAN environment utilizing a non-TCP transport-level protocol. Using

SMTP, a process can transfer mail to another process on the same network or to some other network via a relay or gateway process accessible to both networks.

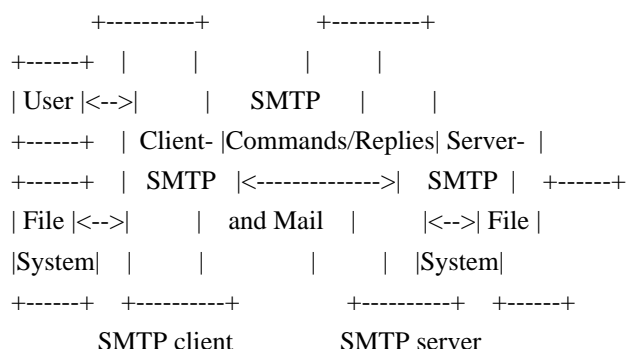
In this way, a mail message may pass through a number of intermediate relay or gateway hosts on its path from sender to ultimate recipient.

The Mail eXchanger mechanisms of the domain name system [22, 27] (and section 5 of this document) are used to identify the appropriate next-hop destination for a message being transported.

2. The SMTP Model

2.1 Basic Structure

The SMTP design can be pictured as:



When an SMTP client has a message to transmit, it establishes a two-way transmission channel to an SMTP server. The responsibility of an SMTP client is to transfer mail messages to one or more SMTP servers, or report its failure to do so.

The means by which a mail message is presented to an SMTP client, and how that client determines the domain name(s) to which mail messages are to be transferred is a local matter, and is not addressed by this

document. In some cases, the domain name(s) transferred to, or determined by, an SMTP client will identify the final destination(s) of the mail message. In other cases, common with SMTP clients associated with implementations of the POP [3, 26] or IMAP [6] protocols, or when the SMTP client is inside an isolated transport service environment, the domain name determined will identify an intermediate destination through which all mail messages are to be relayed. SMTP clients that transfer all traffic, regardless of the target domain names associated with the individual messages, or that do not maintain queues for retrying message transmissions that initially cannot be completed, may otherwise conform to this specification but are not considered fully-capable. Fully-capable SMTP implementations, including the relays used by these less capable

ones, and their destinations, are expected to support all of the queuing, retrying, and alternate address functions discussed in this specification.

The means by which an SMTP client, once it has determined a target domain name, determines the identity of an SMTP server to which a copy of a message is to be transferred, and then performs that transfer, is covered by this document. To effect a mail transfer to an SMTP server, an SMTP client establishes a two-way transmission channel to that SMTP server. An SMTP client determines the address of an appropriate host running an SMTP server by resolving a destination domain name to either an intermediate Mail eXchanger host or a final target host.

An SMTP server may be either the ultimate destination or an intermediate "relay" (that is, it may assume the role of an SMTP client after receiving the message) or "gateway" (that is, it may transport the message further using some protocol other than SMTP). SMTP commands are generated by the SMTP client and sent to the SMTP server. SMTP replies are sent from the SMTP server to the SMTP client in response to the commands.

In other words, message transfer can occur in a single connection between the original SMTP-sender and the final SMTP-recipient, or can occur in a series of hops through intermediary systems. In either case, a formal handoff of responsibility for the message occurs: the protocol requires that a server accept responsibility for either delivering a message or properly reporting the failure to do so.

Once the transmission channel is established and initial handshaking completed, the SMTP client normally initiates a mail transaction. Such a transaction consists of a series of commands to specify the originator and destination of the mail and transmission of the message content (including any headers or other structure) itself. When the same message is sent to multiple recipients, this protocol encourages the transmission of only one copy of the data for all recipients at the same destination (or intermediate relay) host.

The server responds to each command with a reply; replies may indicate that the command was accepted, that additional commands are expected, or that a temporary or permanent error condition exists. Commands specifying the sender or recipients may include server-permitted SMTP service extension requests as discussed in section 2.2. The dialog is purposely lock-step, one-at-a-time, although this can be modified by mutually-agreed extension requests such as command pipelining [13].

Once a given mail message has been transmitted, the client may either request that the connection be shut down or may initiate other mail transactions. In addition, an SMTP client may use a connection to an SMTP server for ancillary services such as verification of email addresses or retrieval of mailing list subscriber addresses.

As suggested above, this protocol provides mechanisms for the transmission of mail. This transmission normally occurs directly from the sending user's host to the receiving user's host when the two hosts are connected to the same transport service. When they are not connected to the same transport service, transmission occurs via one or more relay SMTP servers. An intermediate host that acts as either an SMTP relay or as a gateway into some other transmission environment is usually selected through the use of the domain name service (DNS) Mail eXchanger mechanism.

Usually, intermediate hosts are determined via the DNS MX record, not by explicit "source" routing (see section 5 and appendices C and F.2).

2.2 The Extension Model

2.2.1 Background

In an effort that started in 1990, approximately a decade after RFC 821 was completed, the protocol was modified with a "service extensions" model that permits the client and server to agree to

utilize shared functionality beyond the original

SMTP requirements.

The SMTP extension mechanism defines a means whereby an extended SMTP client and server may recognize each other, and the server can inform the client as to the service extensions that it supports.

Contemporary SMTP implementations **MUST** support the basic extension mechanisms. For instance, servers **MUST** support the EHLO command even if they do not implement any specific extensions and clients **SHOULD** preferentially utilize EHLO rather than HELO. (However, for compatibility with older conforming implementations, SMTP clients and servers **MUST** support the original HELO mechanisms as a fallback.) Unless the different characteristics of HELO must be identified for interoperability purposes, this document discusses only EHLO.

SMTP is widely deployed and high-quality implementations have proven to be very robust. However, the Internet community now considers some services to be important that were not anticipated when the

protocol was first designed. If support for those services is to be added, it must be done in a way that permits older implementations to continue working acceptably. The extension framework consists of:

- The SMTP command EHLO, superseding the earlier HELO,
- a registry of SMTP service extensions,
- additional parameters to the SMTP MAIL and RCPT commands, and
- optional replacements for commands defined in this protocol, such as for DATA in non-ASCII transmissions [33].

SMTP's strength comes primarily from its simplicity. Experience with many protocols has shown that protocols with few options tend towards ubiquity, whereas protocols with many options tend towards obscurity.

Each and every extension, regardless of its benefits, must be carefully scrutinized with respect to its implementation, deployment, and interoperability costs. In many cases, the cost of extending the SMTP service will likely outweigh the benefit.

2.2.2

Definition and Registration of Extensions

The IANA maintains a registry of SMTP service extensions. A corresponding EHLO keyword value is associated with each extension. Each service extension registered with the IANA must be defined in a formal standards-track or IESG-approved experimental protocol

document. The definition must include:

- the textual name of the SMTP service extension;
- the EHLO keyword value associated with the extension;
- the syntax and possible values of parameters associated with the EHLO keyword value;
- any additional SMTP verbs associated with the extension (additional verbs will usually be, but are not required to be, the same as the EHLO keyword value);
- any new parameters the extension associates with the MAIL or RCPT verbs;
- a description of how support for the extension affects the behavior of a server and client SMTP; and,
- the increment by which the extension is increasing the maximum length of the commands MAIL and/or RCPT, over that specified in this standard.

In addition, any EHLO keyword value starting with an upper or lower case "X" refers to a local SMTP service extension used exclusively through bilateral agreement. Keywords beginning with "X" MUST NOT be used in a registered service extension. Conversely, keyword values presented in the EHLO response that do not begin with "X" MUST correspond to a standard, standards-track, or IESG-approved experimental SMTP service extension registered with IANA. A conforming server MUST NOT offer non-"X"-prefixed keyword values that are not described in a registered extension.

Additional verbs and parameter names are bound by the same rules as EHLO keywords; specifically, verbs beginning with "X" are local extensions that may not be registered or standardized. Conversely, verbs not beginning with "X" must always be registered.

2.3 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described below.

1. **MUST** This word, or the terms "REQUIRED" or "SHALL", mean that the definition is an absolute requirement of the specification.

2. **MUST NOT** This phrase, or the phrase "SHALL NOT", mean that the definition is an absolute prohibition of the specification.
3. **SHOULD** This word, or the adjective "RECOMMENDED", mean that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
4. **SHOULD NOT** This phrase, or the phrase "NOT RECOMMENDED" mean that there may exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.
5. **MAY** This word, or the adjective "OPTIONAL", mean that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation which does not include a particular option **MUST** be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation which does include a particular option **MUST** be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides.)

2.3.1 Mail Objects

SMTP transports a mail object. A mail object contains an envelope and content.

The SMTP

envelope is sent as a series of SMTP protocol units (described in section 3). It consists of an originator address (to which error reports should be directed); one or more recipient addresses; and optional protocol extension material. Historically, variations on the recipient address specification command (RCPT TO) could be used to specify alternate delivery modes, such as immediate display; those variations have now been deprecated (see appendix F, section F.6).

The SMTP content is sent in the SMTP DATA protocol unit and has two parts: the headers and the body. If the content conforms to other

contemporary standards, the headers form a collection of field/value pairs structured as in the message format specification [32]; the body, if structured, is defined according to MIME [12]. The content is textual in nature, expressed using the US-ASCII repertoire [1]. Although SMTP extensions (such as "8BITMIME" [20]) may relax this restriction for the content body, the content headers are always encoded using the US-ASCII repertoire. A MIME extension [23] defines an algorithm for representing header values outside the US-ASCII repertoire, while still encoding them using the US-ASCII repertoire.

2.3.2 Senders and Receivers

In RFC 821, the two hosts participating in an SMTP transaction were described as the "SMTP-sender" and "SMTP-receiver". This document has been changed to reflect current industry terminology and hence refers to them as the "SMTP client" (or sometimes just "the client") and "SMTP server" (or just "the server"), respectively. Since a given host may act both as server and client in a relay situation, "receiver" and "sender" terminology is still used where needed for clarity.

2.3.3 Mail Agents and Message Stores

Additional mail system terminology became common after RFC 821 was published and, where convenient, is used in this specification. In particular, SMTP

servers and clients provide a mail transport service and therefore act as "Mail Transfer Agents" (MTAs). "Mail User Agents" (MUAs or UAs) are normally thought of as the sources and

targets of mail. At the source, an MUA might collect mail to be transmitted from a user and hand it off to an MTA; the final ("delivery") MTA would be thought of as handing the mail off to an MUA (or at least transferring responsibility to it, e.g., by depositing the message in a "message store"). However, while these terms are used with at least the appearance of great precision in other environments, the implied boundaries between MUAs and MTAs often do not accurately match common, and conforming, practices with Internet mail. Hence, the reader should be cautious about inferring the strong relationships and responsibilities that might be implied if these terms were used elsewhere.

2.3.4 Host

For the purposes of this specification, a host is a computer system attached to the Internet (or, in some cases, to a private TCP/IP network) and supporting the SMTP protocol. Hosts are known by names

(see "domain"); identifying them by numerical address is discouraged.

2.3.5 Domain

A domain (or domain name) consists of one or more dot-separated components. These components ("labels" in DNS terminology [22]) are restricted for SMTP purposes to consist of a sequence of letters, digits, and hyphens drawn from the ASCII character set [1]. Domain names are used as names of hosts and of other entities in the domain name hierarchy. For example, a domain may refer to an alias (label of a CNAME RR) or the label of Mail eXchanger records to be used to deliver mail instead of representing a host name. See [22] and section 5 of this specification.

The domain name, as described in this document and in [22], is the entire, fully-qualified name (often referred to as an "FQDN"). A domain name that is not in FQDN form is no more than a local alias.

Local aliases **MUST NOT** appear in any SMTP transaction.

2.3.6 Buffer and State Table

SMTP sessions are stateful, with both parties carefully maintaining a common view of the current state. In this document we model this state by a virtual "buffer" and a "state table" on the server which may be used by the client to, for example, "clear the buffer" or "reset the state table," causing the information in the buffer to be discarded and the state to be returned to some previous state.

2.3.7 Lines

SMTP commands and, unless altered by a service extension, message data, are transmitted in "lines". Lines consist of zero or more data characters terminated by the sequence ASCII character "CR" (hex value 0D) followed immediately by ASCII character "LF" (hex value 0A). This termination sequence is denoted as <CRLF> in this document. Conforming implementations **MUST NOT** recognize or generate any other character or character sequence as a line terminator. Limits **MAY** be imposed on line lengths by servers (see section 4.5.3).

In addition, the appearance of "bare" "CR" or "LF" characters in text (i.e., either without the other) has a long history of causing problems in mail implementations and applications that use the mail system as a tool. SMTP client implementations **MUST NOT** transmit these characters except when they are intended as line terminators and then **MUST**, as indicated above, transmit them only as a <CRLF> sequence.

2.3.8 Originator, Delivery, Relay, and Gateway Systems

This specification makes a distinction among four types of SMTP systems, based on the role those systems play in transmitting electronic mail. An "originating" system (sometimes called an SMTP originator) introduces mail into the Internet or, more generally, into a transport service environment. A "delivery" SMTP system is one that receives mail from a transport service environment and passes it to a mail user agent or deposits it in a message store which a mail user agent is expected to subsequently access. A "relay" SMTP system (usually referred to just as a "relay") receives mail from an SMTP client and transmits it, without modification to the message data other than adding trace information, to another SMTP server for further relaying or for delivery.

A "gateway" SMTP system (usually referred to just as a "gateway") receives mail from a client system in one transport environment and transmits it to a server system in another transport environment. Differences in protocols or message semantics between the transport environments on either side of a gateway may require that the gateway system perform transformations to the message that are not permitted to SMTP relay systems. For the purposes of this specification, firewalls that rewrite addresses should be considered as gateways, even if SMTP is used on both sides of them (see [11]).

2.3.9 Message Content and Mail Data

The terms "message content" and "mail data" are used interchangeably in this document to describe the material transmitted after the DATA command is accepted and before the end of data indication is transmitted. Message content includes message headers and the possibly-structured message body. The MIME specification [12] provides the standard mechanisms for structured message bodies.

2.3.10 Mailbox and Address

As used in this specification, an "address" is a character string that identifies a user to whom mail will be sent or a location into which mail will be deposited. The term "mailbox" refers to that depository. The two terms are typically used interchangeably unless the distinction between the location in which mail is placed (the mailbox) and a reference to it (the address) is important. An address normally consists of user and domain specifications. The standard mailbox

naming convention is defined to be "local-part@domain": contemporary usage permits a much broader set of applications than simple "user names". Consequently, and due to a long history of problems when intermediate hosts have attempted to optimize transport by modifying them, the local-part **MUST** be interpreted and assigned semantics only by the host specified in the domain part of the address.

2.3.11 Reply

An SMTP reply is an acknowledgment (positive or negative) sent from receiver to sender via the transmission channel in response to a command. The general form of a reply is a numeric completion code (indicating failure or success) usually followed by a text string. The codes are for use by programs and the text is usually intended for human users. Recent work [34] has specified further structuring of the reply strings, including the use of supplemental and more specific completion codes.

2.4 General Syntax Principles and Transaction Model

SMTP commands and replies have a rigid syntax. All commands begin with a command verb. All Replies begin with a three digit numeric code. In some commands and replies, arguments **MUST** follow the verb or reply code. Some commands do not accept arguments (after the verb), and some reply codes are followed, sometimes optionally, by free form text. In both cases, where text appears, it is separated from the verb or reply code by a space character. Complete definitions of commands and replies appear in section 4.

Verbs and argument values (e.g., "TO:" or "to:" in the RCPT command and extension name keywords) are not case sensitive, with the sole exception in this specification of a mailbox local-part (SMTP Extensions may explicitly specify case-sensitive elements). That is, a command verb, an argument value other than a mailbox local-part, and free form text **MAY** be encoded in upper case, lower case, or any mixture of upper and lower case with no impact on its meaning. This is **NOT** true of a mailbox local-part. The local-part of a mailbox **MUST BE** treated as case sensitive. Therefore, SMTP implementations **MUST** take care to preserve the case of mailbox local-parts. Mailbox domains are not case sensitive. In particular, for some hosts the user "smith" is different from the user "Smith". However, exploiting the case sensitivity of mailbox local-parts impedes interoperability and is discouraged.

A few SMTP servers, in violation of this specification (and RFC 821)

require that command verbs be encoded by clients in upper case. Implementations MAY wish to employ this encoding to accommodate those servers.

The argument field consists of a variable length character string ending with the end of the line, i.e., with the character sequence <CRLF>. The receiver will take no action until this sequence is received.

The syntax for each command is shown with the discussion of that command. Common elements and parameters are shown in section 4.1.2.

Commands and replies are composed of characters from the ASCII character set [1]. When the transport service provides an 8-bit byte (octet) transmission channel, each 7-bit character is transmitted right justified in an octet with the high order bit cleared to zero. More specifically, the unextended SMTP service provides seven bit transport only. An originating SMTP client which has not successfully negotiated an appropriate extension with a particular server MUST NOT transmit messages with information in the high-order bit of octets. If such messages are transmitted in violation of this rule, receiving SMTP servers MAY clear the high-order bit or reject the message as invalid. In general, a relay SMTP SHOULD assume that the message content it has received is valid and, assuming that the envelope permits doing so, relay it without inspecting that content. Of

course, if the content is mislabeled and the data path cannot accept the actual content, this may result in ultimate delivery of a severely garbled message to the recipient. Delivery SMTP systems MAY reject ("bounce") such messages rather than deliver them. No sending SMTP system is permitted to send envelope commands in any character

set other than US-ASCII; receiving systems SHOULD reject such commands, normally using "500 syntax error - invalid character" replies.

Eight-bit message content transmission MAY be requested of the server by a client using extended SMTP facilities, notably the "8BITMIME" extension [20]. 8BITMIME SHOULD be supported by SMTP servers. However, it MUST not be construed as authorization to transmit unrestricted eight bit material. 8BITMIME MUST NOT be requested by senders for material with the high bit on that is not in MIME format with an appropriate content-transfer encoding; servers MAY reject such messages.

The metalinguistic notation used in this document corresponds to the "Augmented BNF" used in other Internet mail system documents. The

reader who is not familiar with that syntax should consult the ABNF specification [8]. Metalanguage terms used in running text are surrounded by pointed brackets (e.g., <CRLF>) for clarity.

3. The SMTP Procedures: An Overview

This section contains descriptions of the procedures used in SMTP: session initiation, the mail transaction, forwarding mail, verifying mailbox names and expanding mailing lists, and the opening and closing exchanges. Comments on relaying, a note on mail domains, and a discussion of changing roles are included at the end of this section. Several complete scenarios are presented in appendix D.

3.1 Session Initiation

An SMTP session is initiated when a client opens a connection to a server and the server responds with an opening message.

SMTP server implementations MAY include identification of their software and version information in the connection greeting reply after the 220 code, a practice that permits more efficient isolation and repair of any problems. Implementations MAY make provision for SMTP servers to disable the software and version announcement where it causes security concerns. While some systems also identify their contact point for mail problems, this is not a substitute for maintaining the required "postmaster" address (see section 4.5.1).

The SMTP protocol allows a server to formally reject a transaction while still allowing the initial connection as follows: a 554 response MAY be given in the initial connection opening message instead of the 220. A server taking this approach MUST still wait for the client to send a QUIT (see section 4.1.1.10) before closing the connection and SHOULD respond to any intervening commands with

"503 bad sequence of commands". Since an attempt to make an SMTP connection to such a system is probably in error, a server returning a 554 response on connection opening SHOULD provide enough information in the reply text to facilitate debugging of the sending system.

3.2 Client Initiation

Once the server has sent the welcoming message and the client has received it, the client normally sends the EHLO command to the server, indicating the client's identity. In addition to opening the session, use of EHLO indicates that the client is able to process

service extensions and requests that the server provide a list of the extensions it supports. Older SMTP systems which are unable to support service extensions and contemporary clients which do not require service extensions in the mail session being initiated, MAY use HELO instead of EHLO. Servers MUST NOT return the extended EHLO-style response to a HELO command. For a particular connection attempt, if the server returns a "command not recognized" response to EHLO, the client SHOULD be able to fall back and send HELO.

In the EHLO command the host sending the command identifies itself; the command may be interpreted as saying "Hello, I am <domain>" (and, in the case of EHLO, "and I support service extension requests").

3.3 Mail Transactions

There are three steps to SMTP mail transactions. The transaction starts with a MAIL command which gives the sender identification. (In general, the MAIL command may be sent only when no mail transaction is in progress; see section 4.1.4.) A series of one or more RCPT commands follows giving the receiver information. Then a DATA command initiates transfer of the mail data and is terminated by the "end of mail" data indicator, which also confirms the transaction.

The first step in the procedure is the MAIL command.

MAIL FROM:<reverse-path> [SP <mail-parameters>] <CRLF>

This command tells the SMTP-receiver that a new mail transaction is starting and to reset all its state tables and buffers, including any recipients or mail data. The <reverse-path> portion of the first or only argument contains the source mailbox (between "<" and ">" brackets), which can be used to report errors (see section 4.2 for a discussion of error reporting). If accepted, the SMTP server returns a 250 OK reply. If the mailbox specification is not acceptable for some reason, the server MUST return a reply indicating whether the

failure is permanent (i.e., will occur again if the client tries to send the same address again) or temporary (i.e., the address might be accepted if the client tries again later). Despite the apparent scope of this requirement, there are circumstances in which the acceptability of the reverse-path may not be determined until one or more forward-paths (in RCPT commands) can be examined. In those cases, the server MAY reasonably accept the reverse-path (with a 250 reply) and then report

problems after the forward-paths are received and examined. Normally, failures produce 550 or 553 replies.

Historically, the <reverse-path> can contain more than just a mailbox, however, contemporary systems SHOULD NOT use source routing (see appendix C).

The optional <mail-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The second step in the procedure is the RCPT command.

```
RCPT TO:<forward-path> [ SP <rcpt-parameters> ] <CRLF>
```

The first or only argument to this command includes a forward-path (normally a mailbox and domain, always surrounded by "<" and ">" brackets) identifying one recipient. If accepted, the SMTP server returns a 250 OK reply and stores the forward-path. If the recipient is known not to be a deliverable address, the SMTP server returns a 550 reply, typically with a string such as "no such user - " and the mailbox name (other circumstances and reply codes are possible). This step of the procedure can be repeated any number of times.

The <forward-path> can contain more than just a mailbox. Historically, the <forward-path> can be a source routing list of hosts and the destination mailbox, however, contemporary SMTP clients SHOULD NOT utilize source routes (see appendix C). Servers MUST be prepared to encounter a list of source routes in the forward path, but SHOULD ignore the routes or MAY decline to support the relaying they imply. Similarly, servers MAY decline to accept mail that is destined for other hosts or systems. These restrictions make a server useless as a relay for clients that do not support full SMTP functionality. Consequently, restricted-capability clients MUST NOT assume that any SMTP server on the Internet can be used as their mail processing (relaying) site. If a RCPT command appears without a previous MAIL command, the server MUST return a 503 "Bad sequence of commands" response. The optional <rcpt-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The third step in the procedure is the DATA command (or some alternative specified in a service extension).

```
DATA <CRLF>
```

If accepted, the SMTP server returns a 354 Intermediate reply and considers all succeeding lines up to but not including the end of mail data indicator to be the message text. When the end of text is

successfully received and stored the SMTP-receiver sends a 250 OK reply.

Since the mail data is sent on the transmission channel, the end of mail data must be indicated so that the command and reply dialog can be resumed. SMTP indicates the end of the mail data by sending a line containing only a "." (period or full stop). A transparency procedure is used to prevent this from interfering with the user's text (see section 4.5.2).

The end of mail data indicator also confirms the mail transaction and tells the SMTP

server to now process the stored recipients and mail

data. If accepted, the SMTP server returns a 250 OK reply. The DATA command can fail at only two points in the protocol exchange:

- If there was no MAIL, or no RCPT, command, or all such commands were rejected, the server MAY return a "command out of sequence" (503) or "no valid recipients" (554) reply in response to the DATA command. If one of those replies (or any other 5yz reply) is received, the client MUST NOT send the message data; more generally, message data MUST NOT be sent unless a 354 reply is received.
- If the verb is initially accepted and the 354 reply issued, the DATA command should fail only if the mail transaction was incomplete (for example, no recipients), or if resources were unavailable (including, of course, the server unexpectedly becoming unavailable), or if the server determines that the message should be rejected for policy or other reasons.

However, in practice, some servers do not perform recipient verification until after the message text is received. These servers SHOULD treat a failure for one or more recipients as a "subsequent failure" and return a mail message as discussed in section 6. Using a "550 mailbox not found" (or equivalent) reply code after the data are accepted makes it difficult or impossible for the client to determine which recipients failed.

When RFC 822 format [7, 32] is being used, the mail data include the memo header items such as Date, Subject, To, Cc, From. Server SMTP systems SHOULD NOT reject messages based on perceived defects in the RFC 822 or MIME [12] message header or message body. In particular,

they MUST NOT reject messages in which the numbers of Resent-fields do not match or Resent-to appears without Resent-from and/or Resent-date.

Mail transaction commands **MUST** be used in the order discussed above.

3.4 Forwarding for Address Correction or Updating

Forwarding support is most often required to consolidate and simplify addresses within, or relative to, some enterprise and less frequently to establish addresses to link a person's prior address with current one. Silent forwarding of messages (without server notification to the sender), for security or non-disclosure purposes, is common in the contemporary Internet.

In both the enterprise and the "new address" cases, information hiding (and sometimes security) considerations argue against exposure of the "final" address through the SMTP protocol as a side-effect of the forwarding activity. This may be especially important when the final address may not even be reachable by the sender. Consequently, the "forwarding" mechanisms described in section 3.2 of RFC 821, and especially the 251 (corrected destination) and 551 reply codes from RCPT must be evaluated carefully by implementers and, when they are available, by those configuring systems.

In particular:

- * Servers **MAY** forward messages when they are aware of an address change. When they do so, they **MAY** either provide address-updating information with a 251 code, or may forward "silently" and return a 250 code. But, if a 251 code is used, they **MUST NOT** assume that the client will actually update address information or even return that information to the user.

Alternately,

- * Servers **MAY** reject or bounce messages when they are not deliverable when addressed. When they do so, they **MAY** either provide address-updating information with a 551 code, or may reject the message as undeliverable with a 550 code and no address-specific information. But, if a 551 code is used, they **MUST NOT** assume that the client will actually update address information or even return that information to the user.

SMTP server implementations that support the 251 and/or 551 reply codes are strongly encouraged to provide configuration mechanisms so that sites which conclude that they would undesirably disclose information can disable or restrict their use.

3.5 Commands for Debugging Addresses

3.5.1 Overview

SMTP provides commands to verify a user name or obtain the content of a mailing list. This is done with the VRFY and EXPN commands, which have character string arguments. Implementations SHOULD support VRFY and EXPN (however, see section 3.5.2 and 7.3).

For the VRFY command, the string is a user name or a user name and domain (see below). If a normal (i.e., 250) response is returned, the response MAY include the full name of the user and MUST include the mailbox of the user. It MUST be in either of the following forms:

User Name <local-part@domain>
local-part@domain

When a name that is the argument to VRFY could identify more than one mailbox, the server MAY either note the ambiguity or identify the alternatives. In other words, any of the following are legitimate response to VRFY:

553 User ambiguous

or

553- Ambiguous; Possibilities are
553-Joe Smith <jsmith@foo.com>
553-Harry Smith <hsmith@foo.com>
553 Melvin Smith <dweep@foo.com>

or

553-Ambiguous; Possibilities
553- <jsmith@foo.com>
553- <hsmith@foo.com>
553 <dweep@foo.com>

Under normal circumstances, a client receiving a 553 reply would be expected to expose the result to the user. Use of exactly the forms given, and the "user ambiguous" or "ambiguous" keywords, possibly supplemented by extended reply codes such as those described in [34], will facilitate automated translation into other languages as needed. Of course, a client that was highly automated or that was operating in another language than English, might choose to try to translate the response, to return some other indication to the user than the

literal

text of the reply, or to take some automated action such as consulting a directory service for additional information before reporting to the user.

For the EXPN command, the string identifies a mailing list, and the successful (i.e., 250) multiline response MAY include the full name of the users and MUST give the mailboxes on the mailing list.

In some hosts the distinction between a mailing list and an alias for a single mailbox is a bit fuzzy, since a common data structure may hold both types of entries, and it is possible to have mailing lists containing only one mailbox. If a request is made to apply VRFY to a mailing list, a positive response MAY be given if a message so addressed would be delivered to everyone on the list, otherwise an error SHOULD be reported (e.g., "550 That is a mailing list, not a user" or "252 Unable to verify members of mailing list"). If a request is made to expand a user name, the server MAY return a positive response consisting of a list containing one name, or an error MAY be reported (e.g., "550 That is a user name, not a mailing list").

In the case of a successful multiline reply (normal for EXPN) exactly one mailbox is to be specified on each line of the reply. The case of an ambiguous request is discussed above.

"User name" is a fuzzy term and has been used deliberately. An implementation of the VRFY or EXPN commands MUST include at least recognition of local mailboxes as "user names". However, since current Internet practice often results in a single host handling mail for multiple domains, hosts, especially hosts that provide this functionality, SHOULD accept the "local-part@domain" form as a "user name"; hosts MAY also choose to recognize other strings as "user names".

The case of expanding a mailbox list requires a multiline reply, such as:

```
C: EXPN Example-People
S: 250-Jon Postel <Postel@isi.edu>
S: 250-Fred
Fonebone <Fonebone@physics.foo-u.edu>
S: 250 Sam Q. Smith <SQSmith@specific.generic.com>
```

or

C: EXPN Executive-Washroom-List

S: 550 Access Denied to You.

The character string arguments of the VRFY and EXPN commands cannot be further restricted due to the variety of implementations of the user name and mailbox list concepts. On some systems it may be appropriate for the argument of the EXPN command to be a file name for a file containing a mailing list, but again there are a variety of file naming conventions in the Internet. Similarly, historical variations in what is returned by these commands are such that the response **SHOULD** be interpreted very carefully, if at all, and **SHOULD** generally only be used for diagnostic purposes.

3.5.2 VRFY Normal Response

When normal (2yz or 551) responses are returned from a VRFY or EXPN request, the reply normally includes the mailbox name, i.e., "<local-part@domain>", where "domain" is a fully qualified domain name, **MUST** appear in the syntax. In circumstances exceptional enough to justify violating the intent of this specification, free-form text **MAY** be returned. In order to facilitate parsing by both computers and people, addresses **SHOULD** appear in pointed brackets. When addresses, rather than free-form debugging information, are returned, EXPN and VRFY **MUST** return only valid domain addresses that are usable in SMTP RCPT commands. Consequently, if an address implies delivery to a program or other system, the mailbox name used to reach that target **MUST** be given. Paths (explicit source routes) **MUST NOT** be returned by VRFY or EXPN.

Server implementations **SHOULD** support both VRFY and EXPN. For security reasons, implementations **MAY** provide local installations a way to disable either or both of these commands through configuration options or the equivalent. When these commands are supported, they are not required to work across relays when relaying is supported. Since they were both optional in RFC 821, they **MUST** be listed as service extensions in an EHLO response, if they are supported.

3.5.3 Meaning of VRFY or EXPN Success Response

A server **MUST NOT** return a 250 code in response to a VRFY or EXPN command unless it has actually verified the address. In particular, a server **MUST NOT** return 250 if all it has done is to verify that the syntax given is valid. In that case, 502 (Command not implemented) or 500 (Syntax error, command unrecognized) **SHOULD** be returned. As stated elsewhere, implementation (in the sense of actually validating addresses and returning information) of VRFY and EXPN are strongly

recommended. Hence, implementations that return 500 or 502 for VRFY are not in full compliance with this specification.

There may be circumstances where an address appears to be valid but cannot reasonably be verified in real time, particularly when a server

is acting as a mail exchanger for another server or domain.

"Apparent validity" in this case would normally involve at least syntax checking and might involve verification that any domains specified were ones to which the host expected to be able to relay mail. In these situations, reply code 252 SHOULD be returned. These cases parallel the discussion of RCPT verification discussed in section 2.1. Similarly, the discussion in section 3.4 applies to the use of reply codes 251 and 551 with VRFY (and EXPN) to indicate addresses that are recognized but that would be forwarded or bounced were mail received for them. Implementations generally SHOULD be more aggressive about address verification in the case of VRFY than in the case of RCPT, even if it takes a little longer to do so.

3.5.4 Semantics and Applications of EXPN

EXPN is often very useful in debugging and understanding problems with mailing lists and multiple-target-address aliases.

Some systems

have attempted to use source expansion of mailing lists as a means of eliminating duplicates. The propagation of aliasing systems with mail on the Internet, for hosts (typically with MX and CNAME DNS records), for mailboxes (various types of local host aliases), and in various proxying arrangements, has made it nearly impossible for these strategies to work consistently, and mail systems SHOULD NOT attempt them.

3.6 Domains

Only resolvable, fully-qualified, domain names (FQDNs) are permitted when domain names are used in SMTP. In other words, names that can be resolved to MX RRs or A RRs (as discussed in section 5) are permitted, as are CNAME RRs whose targets can be resolved, in turn, to MX or A RRs. Local nicknames or unqualified names MUST NOT be used. There are two exceptions to the rule requiring FQDNs:

- The domain name given in the EHLO command MUST BE either a primary host name (a domain name that resolves to an A RR) or, if the host has no name, an address literal as described in section 4.1.1.1.
- The reserved mailbox name "postmaster" may be used in a RCPT command without domain qualification (see section 4.1.1.3) and

MUST be accepted if so used.

3.7 Relaying

In general, the availability of Mail eXchanger records in the domain name system [22, 27] makes the use of explicit source routes in the Internet mail system unnecessary. Many historical problems with their interpretation have made their use undesirable. SMTP clients SHOULD NOT generate explicit source routes except under unusual circumstances. SMTP servers MAY decline to act as mail relays or to accept addresses that specify source routes. When route information is encountered, SMTP servers are also permitted to ignore the route information and simply send to the final destination specified as the last element in the route and SHOULD do so. There has been an invalid practice

of using names that do not appear in the DNS as destination names, with the senders counting on the intermediate hosts specified in source routing to resolve any problems. If source routes are stripped, this practice will cause failures. This is one of several reasons why SMTP clients MUST NOT generate invalid source routes or depend on serial resolution of names.

When source routes are not used, the process described in RFC 821 for constructing a reverse-path from the forward-path is not applicable and the reverse-path at the time of delivery will simply be the address that appeared in the MAIL command.

A relay SMTP server is usually the target of a DNS MX record that designates it, rather than the final delivery system. The relay server may accept or reject the task of relaying the mail in the same way it accepts or rejects mail for a local user. If it accepts the task, it then becomes an SMTP client, establishes a transmission channel to the next SMTP server specified in the DNS (according to the rules in section 5), and sends it the mail. If it declines to relay mail to a particular address for policy reasons, a 550 response SHOULD be returned.

Many mail-sending clients exist, especially in conjunction with facilities that receive mail via POP3 or IMAP, that have limited capability to support some of the requirements of this specification, such as the ability to queue messages for subsequent delivery attempts. For these clients, it is common practice to make private arrangements to send all messages to a single server for processing and subsequent distribution. SMTP, as specified here, is not ideally suited for this role, and work is underway on standardized mail submission protocols that might eventually supercede the current practices. In any event, because these arrangements are private and fall outside the scope of this specification, they are not described

here.

It is important to note that MX records can point to SMTP servers which act as gateways into other environments, not just SMTP relays and final delivery systems; see sections 3.8 and 5.

If an SMTP server has accepted the task of relaying the mail and later finds that the destination is incorrect or that the mail cannot be delivered for some other reason, then it **MUST** construct an "undeliverable mail" notification message and send it to the originator of the undeliverable mail (as indicated by the reverse-path). Formats specified for non-delivery reports by other standards (see, for example, [24, 25]) **SHOULD** be used if possible.

This notification message must be from the SMTP server at the relay host or the host that first determines that delivery cannot be accomplished. Of course, SMTP servers **MUST NOT** send notification messages about problems transporting notification messages. One way to prevent loops in error reporting is to specify a null reverse-path in the MAIL command of a notification message. When such a message is transmitted the reverse-path **MUST** be set to null (see section 4.5.5 for additional discussion). A MAIL command with a null reverse-path appears as follows:

MAIL FROM:<>

As discussed in section 2.4.1, a relay SMTP has no need to inspect or act upon the headers or body of the message data and **MUST NOT** do so except to add its own "Received:" header (section 4.4) and, optionally, to attempt to detect looping in the mail system (see section 6.2).

3.8 Mail Gatewaying

While the relay function discussed above operates within the Internet SMTP transport service environment, MX records or various forms of explicit routing may require that an intermediate SMTP server perform a translation function between one transport service and another. As discussed in section 2.3.8, when such a system is at the boundary between two transport service environments, we refer to it as a "gateway" or "gateway SMTP".

Gatewaying mail between different mail environments, such as different mail formats and protocols, is complex and does not easily yield to standardization. However, some general requirements may be given for a gateway between the Internet and another mail

environment.

3.8.1 Header Fields in Gatewaying

Header fields MAY be rewritten when necessary as messages are gatewayed across mail environment boundaries. This may involve inspecting the message body or interpreting the local-part of the destination address in spite of the prohibitions in section 2.4.1.

Other mail systems gatewayed to the Internet often use a subset of RFC 822 headers or provide similar functionality with a different syntax, but some of these mail systems do not have an equivalent to the SMTP envelope. Therefore, when a message leaves the Internet environment, it may be necessary to fold the SMTP envelope information into the message header. A possible solution would be to create new header fields to carry the envelope information (e.g., "X-SMTP-MAIL:" and "X-SMTP-RCPT:"); however, this would require changes in mail programs in foreign environments and might risk disclosure of private information (see section 7.2).

3.8.2 Received Lines in Gatewaying

When forwarding a message into or out of the Internet environment, a gateway MUST prepend a Received: line, but it MUST NOT alter in any way a Received: line that is already in the header.

"Received:" fields of messages originating from other environments may not conform exactly to this specification. However, the most important use of Received: lines is for debugging mail faults, and this debugging can be severely hampered by well-meaning gateways that try to "fix" a Received: line. As another consequence of trace fields arising in non-SMTP environments, receiving systems MUST NOT reject mail based on the format of a trace field and SHOULD be extremely robust in the light of unexpected information or formats in those fields.

The gateway SHOULD indicate the environment and protocol in the "via" clauses of Received field(s) that it supplies.

3.8.3 Addresses in Gatewaying

From the Internet side, the gateway SHOULD accept all valid address formats in SMTP commands and in RFC 822 headers, and all valid RFC 822 messages. Addresses and headers generated by gateways MUST conform to applicable Internet standards (including this one and RFC 822). Gateways are, of course, subject to the same rules for handling source routes as those described for other SMTP systems in

section 3.3.

3.8.4 Other Header Fields in Gatewaying

The gateway **MUST** ensure that all header fields of a message that it forwards into the Internet mail environment meet the requirements for Internet mail. In particular, all addresses in "From:", "To:", "Cc:", etc., fields **MUST** be transformed (if necessary) to satisfy RFC 822 syntax, **MUST** reference only fully-qualified domain names, and **MUST** be effective and useful for sending replies. The translation algorithm used to convert mail from the Internet protocols to another environment's protocol **SHOULD** ensure that error messages from the foreign mail environment are delivered to the return path from the SMTP envelope, not to the sender listed in the "From:" field (or other fields) of the RFC 822 message.

3.8.5 Envelopes in Gatewaying

Similarly, when forwarding a message from another environment into the Internet, the gateway **SHOULD** set the envelope return path in accordance with an error message return address, if supplied by the foreign environment. If the foreign environment has no equivalent concept, the gateway must select and use a best approximation, with the message originator's address as the default of last resort.

3.9 Terminating Sessions and Connections

An SMTP connection is terminated when the client sends a QUIT command. The server responds with a positive reply code, after which it closes the connection.

An SMTP server **MUST NOT** intentionally close the connection except:

- After receiving a QUIT command and responding with a 221 reply.
- After detecting the need to shut down the SMTP service and returning a 421 response code. This response code can be issued after the server receives any command or, if necessary, asynchronously from command receipt (on the assumption that the client will receive it after the next command is issued).

In particular, a server that closes connections in response to commands that are not understood is in violation of this specification. Servers are expected to be tolerant of unknown commands, issuing a 500 reply and awaiting further instructions from the client.

An SMTP server which is forcibly shut down via external means

SHOULD

attempt to send a line containing a 421 response code to the SMTP client before exiting. The SMTP client will normally read the 421 response code after sending its next command.

SMTP clients that experience a connection close, reset, or other communications failure due to circumstances not under their control (in violation of the intent of this specification but sometimes unavoidable) **SHOULD**, to maintain the robustness of the mail system, treat the mail transaction as if a 451 response had been received and act accordingly.

3.10 Mailing Lists and Aliases

An SMTP-capable host **SHOULD** support both the alias and the list models of address expansion for multiple delivery. When a message is delivered or forwarded to each address of an expanded list form, the return address in the envelope ("MAIL FROM:") **MUST** be changed to be the address of a person or other entity who administers the list.

However, in this case, the message header [32]

MUST be left

unchanged; in particular, the "From" field of the message header is unaffected.

An important mail facility is a mechanism for multi-destination delivery of a single message, by transforming (or "expanding" or "exploding") a pseudo-mailbox address into a list of destination mailbox addresses. When a message is sent to such a pseudo-mailbox (sometimes called an "exploder"), copies are forwarded or redistributed to each mailbox in the expanded list. Servers **SHOULD** simply utilize the addresses on the list; application of heuristics or other matching rules to eliminate some addresses, such as that of the originator, is strongly discouraged. We classify such a pseudo-mailbox as an "alias" or a "list", depending upon the expansion rules.

3.10.1 Alias

To expand an alias, the recipient mailer simply replaces the pseudo-mailbox address in the envelope with each of the expanded addresses in turn; the rest of the envelope and the message body are left unchanged. The message is then delivered or forwarded to each expanded address.

3.10.2 List

A mailing list may be said to operate by "redistribution" rather than by "forwarding". To expand a list, the recipient mailer replaces the pseudo-mailbox address in the envelope with all of the expanded

addresses. The return address in the envelope is changed so that all error messages generated by the final deliveries will be returned to a list administrator, not to the message originator, who generally has no control over the contents of the list and will typically find error messages annoying.

4. The SMTP Specifications

4.1 SMTP Commands

4.1.1 Command Semantics and Syntax

The SMTP commands define the mail transfer or the mail system function requested by the user. SMTP commands are character strings terminated by <CRLF>. The commands themselves are alphabetic characters terminated by <SP> if parameters follow and <CRLF> otherwise. (In the interest of improved interoperability, SMTP receivers are encouraged to tolerate trailing white space before the terminating <CRLF>.) The syntax of the local part of a mailbox must conform to receiver site conventions and the syntax specified in section 4.1.2. The SMTP commands are discussed below. The SMTP replies are discussed in section 4.2.

A mail transaction involves several data objects which are communicated as arguments to different commands. The reverse-path is the argument of the MAIL command, the forward-path is the argument of the RCPT command, and the mail data is the argument of the DATA command. These arguments or data objects must be transmitted and held pending the confirmation communicated by the end of mail data indication which finalizes the transaction. The model for this is that distinct buffers are provided to hold the types of data objects, that is, there is a reverse-path buffer, a forward-path buffer, and a mail data buffer. Specific commands cause information to be appended to a specific buffer, or cause one or more buffers to be cleared.

Several commands (RSET, DATA, QUIT) are specified as not permitting parameters. In the absence of specific extensions offered by the server and accepted by the client, clients **MUST NOT** send such parameters and servers **SHOULD** reject commands containing them as having invalid syntax.

4.1.1.1 Extended HELLO (EHLO) or HELLO (HELO)

These commands are used to identify the SMTP client to the SMTP server. The argument field contains the fully-qualified domain name of the SMTP client if one is available. In situations in which the SMTP client system does not have a meaningful domain name (e.g., when its address is dynamically allocated and no reverse mapping record is

available), the client SHOULD send an address literal (see section 4.1.3), optionally followed by information that will help to identify

the client system. y The SMTP server identifies itself to the SMTP client in the connection greeting reply and in the response to this command.

A client SMTP SHOULD start an SMTP session by issuing the EHLO command. If the SMTP server supports the SMTP service extensions it will give a successful response, a failure response, or an error response. If the SMTP server, in violation of this specification, does not support any SMTP service extensions it will generate an error response. Older client SMTP systems MAY, as discussed above, use HELO (as specified in RFC 821) instead of EHLO, and servers MUST support the HELO command and reply properly to it. In any event, a client MUST issue HELO or EHLO before starting a mail transaction.

These commands, and a "250 OK" reply to one of them, confirm that both the SMTP client and the SMTP server are in the initial state, that is, there is no transaction in progress and all state tables and buffers are cleared.

Syntax:

```
ehlo      = "EHLO" SP Domain CRLF
helo      = "HELO" SP Domain CRLF
```

Normally, the response to EHLO will be a multiline reply. Each line of the response contains a keyword and, optionally, one or more parameters. Following the normal syntax for multiline replies, these keywords follow the code (250) and a hyphen for all but the last line, and the code and a space for the last line. The syntax for a positive response, using the ABNF notation and terminal symbols of [8], is:

```
ehlo-ok-rsp = ( "250" domain [ SP ehlo-greet ] CRLF )
              / ( "250-" domain [ SP ehlo-greet ] CRLF
                  *( "250-" ehlo-line CRLF )
                  "250" SP ehlo-line CRLF )
```

```
ehlo-greet  = 1*(%d0-9 / %d11-12 / %d14-127)
```

; string of any characters other than CR or LF

ehlo-line = ehlo-keyword *(SP
ehlo-param)

ehlo-keyword = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
; additional syntax of ehlo-params depends on
; ehlo-keyword

ehlo-param = 1*(%d33-127)
; any CHAR excluding <SP> and all
; control characters (US-ASCII 0-31 inclusive)

Although EHLO keywords may be specified in upper, lower, or mixed case, they **MUST** always be recognized and processed in a case-insensitive manner. This is simply an extension of practices specified in RFC 821 and section 2.4.1.

4.1.1.2 MAIL (MAIL)

This command is used to initiate a mail transaction in which the mail data is delivered to an SMTP server which may, in turn, deliver it to one or more mailboxes or pass it on to another system (possibly using SMTP). The argument field contains a reverse-path and may contain optional parameters. In general, the MAIL command may be sent only when no mail transaction is in progress, see section 4.1.4.

The reverse-path consists of the sender mailbox. Historically, that mailbox might optionally have been preceded by a list of hosts, but that behavior is now deprecated (see appendix C). In some types of reporting messages for which a reply is likely to cause a mail loop (for example, mail delivery and nondelivery notifications), the reverse-path may be null (see section 3.7).

This command clears the reverse-path buffer, the forward-path buffer, and the mail data buffer; and inserts the reverse-path information from this command into the reverse-path buffer.

If service extensions were negotiated, the MAIL command may also carry parameters associated with a particular service extension.

Syntax:

"MAIL FROM:" ("<" / Reverse-Path)
[SP Mail-parameters] CRLF

4.1.1.3 RECIPIENT (RCPT)

This command is used to identify an individual recipient of the mail data; multiple recipients are specified by multiple use of this command. The argument field contains a forward-path and may contain optional parameters.

The forward-path normally consists of the required destination mailbox. Sending systems **SHOULD** not generate the optional list of hosts known as a source route. Receiving systems **MUST** recognize

source route syntax but **SHOULD** strip off the source route specification and utilize the domain name associated with the mailbox as if the source route had not been provided.

Similarly, relay hosts **SHOULD** strip or ignore source routes, and names **MUST NOT** be copied into the reverse-path. When mail reaches its ultimate destination (the forward-path contains only a destination mailbox), the SMTP server inserts it into the destination mailbox in accordance with its host mail conventions.

For example, mail received at relay host xyz.com with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

will normally be sent directly on to host d.bar.org with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<userc@d.bar.org>
```

As provided in appendix C, xyz.com **MAY** also choose to relay the message to hosta.int, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

or to jkl.org, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@jkl.org:userc@d.bar.org>
```

Of course, since hosts are not required to relay mail at all, xyz.com may also reject the message entirely when the RCPT command is received, using a 550 code (since this is a "policy reason").

If service extensions were negotiated, the RCPT command may also carry parameters associated with a particular service extension offered by the server. The client **MUST NOT** transmit parameters other than those associated with a service extension offered by the server in its EHLO response.

Syntax:

```
"RCPT TO:" ("<Postmaster@" domain ">" / "<Postmaster>" / Forward-Path)
[SP Rcpt-parameters] CRLF
```

4.1.1.4 DATA (DATA)

The receiver normally sends a 354 response to DATA, and then treats the lines (strings ending in <CRLF> sequences, as described in section 2.3.7) following the command as mail data from the sender. This command causes the mail data to be appended to the mail data buffer. The mail data may contain any of the 128 ASCII character codes, although experience has indicated that use of control characters other than SP, HT, CR, and LF may cause problems and **SHOULD** be avoided when possible.

The mail data is terminated by a line containing only a period, that is, the character sequence "<CRLF>.<CRLF>" (see section 4.5.2). This is the end of mail data indication. Note that the first <CRLF> of this terminating sequence is also the <CRLF> that ends the final line of the data (message text) or, if there was no data, ends the DATA

command itself. An extra <CRLF> **MUST NOT** be added, as that would cause an empty line to be added to the message. The only exception to this rule would arise if the message body were passed to the originating SMTP-sender with a final "line" that did not end in <CRLF>; in that case, the originating SMTP system **MUST** either reject the message as invalid or add <CRLF> in order to have the receiving SMTP server recognize the "end of data" condition.

The custom of accepting lines ending only in <LF>, as a concession to non-conforming behavior on the part of some UNIX systems, has proven to cause more interoperability problems than it solves, and SMTP server systems **MUST NOT** do this, even in the name of improved robustness. In particular, the sequence "<LF>.<LF>" (bare line feeds, without carriage returns) **MUST NOT** be treated as equivalent to <CRLF>.<CRLF> as the end of mail data indication.

Receipt of the end of mail data indication requires the server to process the stored mail transaction information. This processing consumes the information in the reverse-path buffer, the forward-path buffer, and the mail data buffer, and on the completion of this

command these buffers are cleared. If the processing is successful, the receiver **MUST** send an OK reply. If the processing fails the receiver **MUST** send a failure reply. The SMTP model does not allow for partial failures at this point: either the message is accepted by the server for delivery and a positive response is returned or it is not accepted and a failure reply is returned. In sending a positive completion reply to the end of data indication, the receiver takes full responsibility for the message (see section 6.1). Errors that are diagnosed subsequently **MUST** be reported in a mail message, as discussed in section 4.4.

When the SMTP server accepts a message either for relaying or for final delivery, it inserts a trace record (also referred to interchangeably as a "time stamp line" or "Received" line) at the top of the mail data. This trace record indicates the identity of the host that sent the message, the identity of the host that received the message (and is inserting this time stamp), and the date and time the message was received. Relayed messages will have multiple time stamp lines. Details for formation of these lines, including their syntax, is specified in section 4.4.

Additional discussion about the operation of the DATA command appears in section 3.3.

Syntax:

"DATA" CRLF

4.1.1.5 RESET (RSET)

This command specifies that the current mail transaction will be aborted. Any stored sender, recipients, and mail data **MUST** be discarded, and all buffers and state tables cleared. The receiver **MUST** send a "250 OK" reply to a RSET command with no arguments. A reset command may be issued by the client at any time. It is effectively equivalent to a NOOP (i.e., if has no effect) if issued immediately after EHLO, before EHLO is issued in the session, after an end-of-data indicator has been sent and acknowledged, or immediately before a QUIT. An SMTP server **MUST NOT** close the connection as the result of receiving a RSET; that action is reserved for QUIT (see section 4.1.1.10).

Since EHLO implies some additional processing and response by the server, RSET will normally be more efficient than reissuing that command, even though the formal semantics are the same.

There are circumstances, contrary to the intent of this

specification, in which an SMTP server may receive an indication that the underlying TCP connection has been closed or reset. To preserve the robustness of the mail system, SMTP servers **SHOULD** be prepared for this condition and **SHOULD** treat it as if a QUIT had been received before the connection disappeared.

Syntax:

"RSET" CRLF

4.1.1.6 VERIFY (VRFY)

This command asks the receiver to confirm that the argument identifies a user or mailbox. If it is a user name, information is returned as specified in section 3.5.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer.

Syntax:

"VRFY" SP String CRLF

4.1.1.7 EXPAND (EXPN)

This command asks the receiver to confirm that the argument identifies a mailing list, and if so, to return the membership of that list. If the command is successful, a reply is returned containing information as described in section 3.5. This reply will have multiple lines except in the trivial case of a one-member list.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

Syntax:

"EXPN" SP String CRLF

4.1.1.8 HELP (HELP)

This command causes the server to send helpful information to the client. The command **MAY** take an argument (e.g., any command name) and return more specific information as a response.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

SMTP servers **SHOULD** support HELP without arguments and **MAY** support it with arguments.

Syntax:

"HELP" [SP String] CRLF

4.1.1.9 NOOP (NOOP)

This command does not affect any parameters or previously entered commands. It specifies no action other than that the receiver send an OK reply.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time. If a parameter string is specified, servers **SHOULD** ignore it.

Syntax:

"NOOP" [SP String] CRLF

4.1.1.10 QUIT (QUIT)

This command specifies that the receiver **MUST** send an OK reply, and then close the transmission channel.

The receiver **MUST NOT** intentionally close the transmission channel

until it receives and replies to a QUIT command (even if there was an error). The sender **MUST NOT** intentionally close the transmission channel until it sends a QUIT command and **SHOULD** wait until it receives the reply (even if there was an error response to a previous command). If the connection is closed prematurely due to violations of the above or system or network failure, the server **MUST** cancel any pending transaction, but not undo any previously completed transaction, and generally **MUST** act as if the command or transaction in progress had received a temporary error (i.e., a 4yz response).

The QUIT command may be issued at any time.

Syntax:

"QUIT" CRLF

4.1.2 Command Argument Syntax

The syntax of the argument fields of the above commands (using the syntax specified in [8] where applicable) is given below. Some of the productions given below are used only in conjunction with source routes as described in appendix C.

Terminals not defined in this

document, such as ALPHA, DIGIT, SP, CR, LF, CRLF, are as defined in the "core" syntax [8 (section 6)] or in the message format syntax [32].

Reverse-path = Path
 Forward-path = Path
 Path = "<" [A-d-l ":"] Mailbox ">"
 A-d-l = At-domain *("," A-d-l)
 ; Note that this form, the so-called "source route",
 ; MUST BE accepted, SHOULD NOT be generated, and SHOULD be
 ; ignored.
 At-domain = "@" domain
 Mail-parameters = esmtp-param *(SP esmtp-param)
 Rcpt-parameters = esmtp-param *(SP esmtp-param)

 esmtp-param = esmtp-keyword ["=" esmtp-value]
 esmtp-keyword = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
 esmtp-value = 1*(%d33-60 / %d62-127)
 ; any CHAR excluding "=", SP, and control characters
 Keyword = Ldh-str
 Argument = Atom
 Domain = (sub-domain 1*("." sub-domain)) / address-literal
 sub-domain = Let-dig [Ldh-str]

 address-literal
 = "[" IPv4-address-literal /
 IPv6-address-literal /
 General-address-literal "]"
 ; See section 4.1.3

 Mailbox = Local-part "@" Domain

 Local-part = Dot-string / Quoted-string
 ; MAY be case-sensitive

 Dot-string = Atom *("." Atom)

 Atom = 1*atext

 Quoted-string = DQUOTE *qcontent DQUOTE

 String = Atom / Quoted-string

While the above definition for Local-part is relatively permissive,
 for maximum interoperability, a host that expects to receive mail
 SHOULD avoid defining mailboxes where the Local-part requires (or
 uses) the Quoted-string form or where the Local-part is case-
 sensitive. For any purposes that require generating or comparing
 Local-parts (e.g., to specific mailbox names), all quoted forms MUST
 be treated as equivalent and the sending system SHOULD transmit the
 form that uses the minimum quoting possible.

Systems **MUST NOT** define mailboxes in such a way as to require the use in SMTP of non-ASCII characters (octets with the high order bit set to one) or ASCII "control characters" (decimal value 0-31 and 127). These characters **MUST NOT** be used in MAIL or RCPT commands or other commands that require mailbox names.

Note that the backslash, "\", is a quote character, which is used to indicate that the next character is to be used literally (instead of its normal interpretation). For example, "Joe\\,Smith" indicates a single nine character user field with the comma being the fourth character of the field.

To promote interoperability and consistent with long-standing guidance about conservative use of the DNS in naming and applications (e.g., see section 2.3.1 of the base DNS document, RFC1035 [22]), characters outside the set of alphas, digits, and hyphen **MUST NOT** appear in domain name labels for SMTP clients or servers. In particular, the underscore character is not permitted. SMTP servers that receive a command in which invalid character codes have been employed, and for which there are no other reasons for rejection, **MUST** reject that command with a 501 response.

4.1.3 Address Literals

Sometimes a host is not known to the domain name system and communication (and, in particular, communication to report and repair the error) is blocked. To bypass this barrier a special literal form of the address is allowed as an alternative to a domain name. For IPv4 addresses, this form uses four small decimal integers separated by dots and enclosed by brackets such as [123.255.37.2], which indicates an (IPv4) Internet Address in sequence-of-octets form. For IPv6 and other forms of addressing that might eventually be standardized, the form consists of a standardized "tag" that identifies the address syntax, a colon, and the address itself, in a format specified as part of the IPv6 standards [17].

Specifically:

IPv4-address-literal = Snum 3("." Snum)
IPv6-address-literal = "IPv6:" IPv6-addr
General-address-literal = Standardized-tag ":" 1*dcontent
Standardized-tag = Ldh-str
; **MUST** be specified in a standards-track RFC
; and registered with IANA

Snum = 1*3DIGIT ; representing a decimal integer

; value in the range 0 through 255

Let-dig = ALPHA / DIGIT

Ldh-str = *(ALPHA / DIGIT / "-") Let-dig

IPv6-addr = IPv6-full / IPv6-comp / IPv6v4-full / IPv6v4-comp

IPv6-hex = 1*4HEXDIG

IPv6-full = IPv6-hex 7(":" IPv6-hex)

IPv6-comp = [IPv6-hex *5(":" IPv6-hex)] "::" [IPv6-hex *5(":" IPv6-hex)]

; The "::" represents at least 2 16-bit groups of zeros

; No more than 6 groups in addition to the "::" may be

; present

IPv6v4-full = IPv6-hex 5(":" IPv6-hex) ":" IPv4-address-literal

IPv6v4-comp = [IPv6-hex *3(":" IPv6-hex)] "::"

[IPv6-hex *3(":" IPv6-hex) ":"] IPv4-address-literal

; The "::" represents at least 2 16-bit groups of zeros

; No more than 4 groups in addition to the "::" and

; IPv4-address-literal may be present

4.1.4 Order of Commands

There are restrictions on the order in which these commands may be used.

A session that will contain mail transactions **MUST** first be initialized by the use of the EHLO command. An SMTP server **SHOULD** accept commands for non-mail transactions (e.g., VRFY or EXPN) without this initialization.

An EHLO command **MAY** be issued by a client later in the session. If it is issued after the session begins, the SMTP server **MUST** clear all buffers and reset the state exactly as if a RSET command had been issued. In other words, the sequence of RSET followed immediately by EHLO is redundant, but not harmful other than in the performance cost of executing unnecessary commands.

If the EHLO

command is not acceptable to the SMTP server, 501, 500, or 502 failure replies **MUST** be returned as appropriate. The SMTP server **MUST** stay in the same state after transmitting these replies that it was in before the EHLO was received.

The SMTP client **MUST**, if possible, ensure that the domain parameter to the EHLO command is a valid principal host name (not a CNAME or MX name) for its host. If this is not possible (e.g., when the client's

address is dynamically assigned and the client does not have an obvious name), an address literal **SHOULD** be substituted for the domain name and supplemental information provided that will assist in identifying the client.

An SMTP server **MAY** verify that the domain name parameter in the EHLO command actually corresponds to the IP address of the client.

However, the server **MUST NOT** refuse to accept a message for this reason if the verification fails: the information about verification failure is for logging and tracing only.

The NOOP, HELP, EXPN, VRFY, and RSET commands can be used at any time during a session, or without previously initializing a session. SMTP servers **SHOULD** process these normally (that is, not return a 503 code) even if no EHLO command has yet been received; clients **SHOULD** open a session with EHLO before sending these commands.

If these rules are followed, the example in RFC 821 that shows "550 access denied to you" in response to an EXPN command is incorrect unless an EHLO command precedes the EXPN or the denial of access is based on the client's IP address or other authentication or authorization-determining mechanisms.

The MAIL command (or the obsolete SEND, SOML, or SAML commands) begins a mail transaction. Once started, a mail transaction consists of a transaction beginning command, one or more RCPT commands, and a DATA command, in that order. A mail transaction may be aborted by the RSET (or a new EHLO) command.

There may be zero or more transactions in a session. MAIL (or SEND, SOML, or SAML) **MUST NOT** be sent if a mail transaction is already open, i.e., it should be sent only if no mail transaction had been started in the session, or if the previous one successfully concluded with a successful DATA command, or if the previous one was aborted with a RSET.

If the transaction beginning command argument is not acceptable, a 501 failure reply **MUST** be returned and the SMTP server **MUST** stay in the same state. If the commands in a transaction are out of order to the degree that they cannot be processed by the server, a 503 failure reply **MUST** be returned and the SMTP server **MUST** stay in the same state.

The last command in a session **MUST** be the QUIT command. The QUIT command cannot be used at any other time in a session, but **SHOULD** be used by the client SMTP to request connection closure, even when no session opening command was sent and accepted.

4.1.5

Private-use Commands

As specified in section 2.2.2, commands starting in "X" may be used by bilateral agreement between the client (sending) and server (receiving) SMTP agents. An SMTP server that does not recognize such a command is expected to reply with "500 Command not recognized". An extended SMTP server MAY list the feature names associated with these private commands in the response to the EHLO command.

Commands sent or accepted by SMTP systems that do not start with "X" MUST conform to the requirements of section 2.2.2.

4.2 SMTP Replies

Replies to SMTP commands serve to ensure the synchronization of requests and actions in the process of mail transfer and to guarantee that the SMTP client always knows the state of the SMTP server. Every command MUST generate exactly one reply.

The details of the command-reply sequence are described in section 4.3.

An SMTP reply consists of a three digit number (transmitted as three numeric characters) followed by some text unless specified otherwise in this document. The number is for use by automata to determine what state to enter next; the text is for the human user. The three digits contain enough encoded information that the SMTP client need not examine the text and may either discard it or pass it on to the user, as appropriate. Exceptions are as noted elsewhere in this document. In particular, the 220, 221, 251, 421, and 551 reply codes are associated with message text that must be parsed and interpreted by machines. In the general case, the text may be receiver dependent and context dependent, so there are likely to be varying texts for each reply code. A discussion of the theory of reply codes is given in section 4.2.1. Formally, a reply is defined to be the sequence: a three-digit code, <SP>, one line of text, and <CRLF>, or a multiline reply (as defined in section 4.2.1). Since, in violation of this specification, the text is sometimes not sent, clients which do not receive it SHOULD be prepared to process the code alone (with or without a trailing space character). Only the EHLO, EXPN, and HELP commands are expected to result in multiline replies in normal circumstances, however, multiline replies are allowed for any command.

In ABNF, server responses are:

Greeting = "220 " Domain [SP text] CRLF

Reply-line = Reply-code [SP text] CRLF

where "Greeting" appears only in the 220 response that announces that the server is opening its part of the connection.

An SMTP server **SHOULD** send only the reply codes listed in this document. An SMTP server **SHOULD** use the text shown in the examples whenever appropriate.

An SMTP client **MUST** determine its actions only by the reply code, not by the text (except for the "change of address" 251 and 551 and, if necessary, 220, 221, and 421 replies); in the general case, any text, including no text

at all (although senders **SHOULD NOT** send bare codes), **MUST** be acceptable. The space (blank) following the reply code is considered part of the text. Whenever possible, a receiver-SMTP **SHOULD** test the first digit (severity indication) of the reply code.

The list of codes that appears below **MUST NOT** be construed as permanent. While the addition of new codes should be a rare and significant activity, with supplemental information in the textual part of the response being preferred, new codes may be added as the result of new Standards or Standards-track specifications.

Consequently, a sender-SMTP **MUST** be prepared to handle codes not specified in this document and **MUST** do so by interpreting the first digit only.

4.2.1 Reply Code Severities and Theory

The three digits of the reply each have a special significance. The first digit denotes whether the response is good, bad or incomplete. An unsophisticated SMTP client, or one that receives an unexpected

code, will be able to determine its next action (proceed as planned, redo, retrench, etc.) by examining this first digit. An SMTP client that wants to know approximately what kind of error occurred (e.g., mail system error, command syntax error) may examine the second digit. The third digit and any supplemental information that may be present is reserved for the finest gradation of information.

There are five values for the first digit of the reply code:

1yz Positive Preliminary reply

The command has been accepted, but the requested action is being held in abeyance, pending confirmation of the information in this

reply. The SMTP client should send another command specifying whether to continue or abort the action. Note: unextended SMTP does not have any commands that allow this type of reply, and so does not have continue or abort commands.

2yz Positive Completion reply

The requested action has been successfully completed. A new request may be initiated.

3yz Positive Intermediate reply

The command has been accepted, but the requested action is being held in abeyance, pending receipt of further information. The SMTP client should send another command specifying this information. This reply is used in command sequence groups (i.e., in DATA).

4yz Transient Negative Completion reply

The command was not accepted, and the requested action did not occur. However, the error condition is temporary and the action may be requested again. The sender should return to the beginning of the command sequence (if any). It is difficult to assign a meaning to "transient" when two different sites (receiver- and

sender-SMTP agents) must agree on the interpretation. Each reply in this category might have a different time value, but the SMTP client is encouraged to try again. A rule of thumb to determine

whether a reply fits into the 4yz or the 5yz category (see below) is that replies are 4yz if they can be successful if repeated without any change in command form or in properties of the sender or receiver (that is, the command is repeated identically and the receiver does not put up a new implementation.)

5yz Permanent Negative Completion reply

The command was not accepted and the requested action did not occur. The SMTP client is discouraged from repeating the exact request (in the same sequence). Even some "permanent" error conditions can be corrected, so the human user may want to direct the SMTP client to reinitiate the command sequence by direct action at some point in the future (e.g., after the spelling has been changed, or the user has altered the account status).

The second digit encodes responses in specific categories:

x0z Syntax: These replies refer to syntax errors, syntactically correct commands that do not fit any functional category, and unimplemented or superfluous commands.

x1z Information: These are replies to requests for information, such as status or help.

x2z Connections: These are replies referring to the transmission channel.

x3z Unspecified.

x4z Unspecified.

x5z Mail system: These replies indicate the status of the receiver mail system vis-a-vis the requested transfer or other mail system action.

The third digit gives a finer gradation of meaning in each category specified by the second digit. The list of replies illustrates this. Each reply text is recommended rather than mandatory, and may even change according to the command with which it is associated. On the other hand, the reply codes must strictly follow the specifications in this section. Receiver implementations should not invent new codes for slightly different situations from the ones described here, but rather adapt codes already defined.

For example, a command such as NOOP, whose successful execution does not offer the SMTP client any new information, will return a 250 reply. The reply is 502 when the command requests an unimplemented non-site-specific action. A refinement of that is the 504 reply for a command that is implemented, but that requests an unimplemented parameter.

The reply text may be longer than a single line; in these cases the complete text must be marked so the SMTP client knows when it can stop reading the reply. This requires a special format to indicate a multiple line reply.

The format for multiline replies requires that every line, except the last, begin with the reply code, followed immediately by a hyphen, "-" (also known as minus), followed by text. The last line will begin with the reply code, followed immediately by <SP>, optionally some text, and <CRLF>. As noted above, servers SHOULD send the <SP> if subsequent text is not sent, but clients MUST be prepared for it to be omitted.

For example:

123-First line
123-Second line
123-234 text beginning with numbers
123 The last line

In many cases the SMTP client then simply needs to search for a line beginning with the reply code followed by <SP> or <CRLF> and ignore all preceding lines. In a few cases, there is important data for the client in the reply "text". The client will be able to identify these cases from the current context.

4.2.2 Reply Codes by Function Groups

500 Syntax error, command unrecognized
(This may include errors such as command line too long)

501 Syntax error in parameters or arguments

502 Command not implemented (see section 4.2.4)

503 Bad sequence of commands

504 Command parameter not implemented

211 System status, or system help reply

214 Help message
(Information on how to use the
receiver or the meaning of a
particular non-standard command; this reply is useful only
to the human user)

220 <domain> Service ready

221 <domain> Service closing transmission channel

421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it
must shut down)

250 Requested mail action okay, completed

251 User not local; will forward to <forward-path>
(See section 3.4)

252 Cannot VRFY user, but will accept message and attempt
delivery
(See section 3.5.3)

450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)

550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected
for policy reasons)

451 Requested action aborted: error in processing

551 User not local; please try <forward-path>
(See section

3.4)

- 452 Requested action not taken: insufficient system storage
- 552 Requested mail action aborted: exceeded storage allocation
- 553 Requested action not taken: mailbox name not allowed
(e.g., mailbox syntax incorrect)
- 354 Start mail input; end with <CRLF>.<CRLF>
- 554 Transaction failed (Or, in the case of a connection-opening response, "No SMTP service here")

4.2.3 Reply Codes in Numeric Order

- 211 System status, or system help reply
- 214 Help message
(Information on how to use the receiver or the meaning of a particular non-standard command; this reply is useful only to the human user)
- 220 <domain> Service ready
- 221 <domain> Service closing transmission channel
- 250 Requested mail action okay, completed
- 251 User not local; will forward to <forward-path>
(See section 3.4)
- 252 Cannot VRFY user, but will accept message and attempt delivery
(See section 3.5.3)
- 354 Start mail input; end with <CRLF>.<CRLF>
- 421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it must shut down)
- 450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)
- 451 Requested action aborted: local error in processing
- 452 Requested action not taken: insufficient system storage
- 500 Syntax error, command unrecognized
(This may include errors such as command line too long)
- 501 Syntax error in parameters or arguments
- 502 Command not implemented (see section 4.2.4)
- 503 Bad sequence of commands
- 504 Command parameter not implemented
- 550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected for policy reasons)
- 551 User not local; please try <forward-path>
(See section 3.4)
- 552 Requested

mail action aborted: exceeded storage allocation

553 Requested action not taken: mailbox name not allowed

(e.g., mailbox syntax incorrect)

554 Transaction failed (Or, in the case of a connection-opening response, "No SMTP service here")

4.2.4 Reply Code 502

Questions have been raised as to when reply code 502 (Command not implemented) SHOULD be returned in preference to other codes. 502 SHOULD be used when the command is actually recognized by the SMTP server, but not implemented. If the command is not recognized, code 500 SHOULD be returned. Extended SMTP systems MUST NOT list capabilities in response to EHLO for which they will return 502 (or 500) replies.

4.2.5 Reply Codes After DATA and the Subsequent <CRLF>.<CRLF>

When an SMTP server returns a positive completion status (2yz code) after the DATA command is completed with <CRLF>.<CRLF>, it accepts responsibility for:

- delivering the message (if the recipient mailbox exists), or
- if attempts to deliver the message fail due to transient conditions, retrying delivery some reasonable number of times at intervals as specified in section 4.5.4.
- if attempts to deliver the message fail due to permanent conditions, or if repeated attempts to deliver the message fail due to transient conditions, returning appropriate notification to the sender of the original message (using the address in the SMTP MAIL command).

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completed with <CRLF>.<CRLF>, it MUST NOT make any subsequent attempt to deliver that message. The SMTP client retains responsibility for delivery of that message and may either return it to the user or requeue it for a subsequent attempt (see section 4.5.4.1).

The user who originated the message SHOULD be able to interpret the return of a transient failure status (by mail message or otherwise)

as a non-delivery indication, just as a permanent failure would be interpreted. I.e., if the client SMTP successfully handles these conditions, the user will not receive such a reply.

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completely with <CRLF>.<CRLF>, it MUST NOT make any subsequent attempt to deliver the message. As with temporary error status codes, the SMTP client retains responsibility for the message, but SHOULD not again attempt delivery to the same server without user review and intervention of the message.

4.3 Sequencing of Commands and Replies

4.3.1 Sequencing Overview

The communication between the sender and receiver is an alternating dialogue, controlled by the sender. As such, the sender issues a command and the receiver responds with a reply. Unless other arrangements are negotiated through service extensions, the sender MUST wait for this response before sending further commands.

One important reply is the connection greeting. Normally, a receiver will send a 220 "Service ready" reply when the connection is completed. The sender SHOULD wait for this greeting message before sending any commands.

Note: all the greeting-type replies have the official name (the fully-qualified primary domain name) of the server host as the first word following the reply code. Sometimes the host will have no meaningful name. See 4.1.3 for a discussion of alternatives in these situations.

For example,

```
220 ISIF.USC.EDU Service ready
or
220 mail.foo.com SuperSMTP v 6.1.2 Service ready
or
220 [10.0.0.1] Clueless host service ready
```

The table below lists alternative success and failure replies for each command. These SHOULD be strictly adhered to: a receiver may substitute text in the replies, but the meaning and action implied by the code numbers and by the specific command reply sequence cannot be altered.

4.3.2 Command-Reply Sequences

Each command is listed with its usual possible replies. The prefixes

used before the possible replies are "I" for intermediate, "S" for success, and "E" for error. Since some servers may generate other replies under special circumstances, and to allow for future extension, SMTP clients SHOULD, when possible, interpret only the first digit of the reply and MUST be prepared to deal with unrecognized reply codes by interpreting the first digit only. Unless extended using the mechanisms described in section 2.2, SMTP servers MUST NOT transmit reply codes to an SMTP client that are other than three digits or that do not start in a digit between 2 and 5 inclusive.

These sequencing rules and, in principle, the codes themselves, can be extended or modified by SMTP extensions offered by the server and accepted (requested) by the client.

In addition to the codes listed below, any SMTP command can return any of the following codes if the corresponding unusual circumstances are encountered:

500 For the "command line too long" case or if the command name was not recognized. Note that producing a "command not recognized" error in response to the required subset of these commands is a violation of this specification.

501 Syntax error in command or arguments. In order to provide for future extensions, commands that are specified in this document as not accepting arguments (DATA, RSET, QUIT) SHOULD return a 501 message if arguments are supplied in the absence of EHLO-advertised extensions.

421 Service shutting down and closing transmission channel

Specific sequences are:

CONNECTION ESTABLISHMENT

S: 220

E: 554

EHLO or HELO

S: 250

E: 504, 550

MAIL

S: 250

E: 552, 451, 452, 550, 553, 503

RCPT

S: 250, 251 (but see section 3.4 for discussion of 251 and 551)

E: 550, 551, 552, 553, 450, 451, 452, 503, 550

DATA

I: 354 -> data -> S: 250

E: 552, 554, 451, 452

E: 451, 554, 503

RSET

S: 250

VERFY

S: 250, 251, 252

E: 550, 551, 553, 502, 504

EXPN

S: 250, 252

E: 550, 500, 502, 504

HELP

S: 211, 214

E: 502, 504

NOOP

S: 250

QUIT

S: 221

4.4 Trace Information

When an SMTP server receives a message for delivery or further processing, it **MUST** insert trace ("time stamp" or "Received") information at the beginning of the message content, as discussed in section 4.1.1.4.

This line **MUST** be structured as follows:

- The FROM field, which **MUST** be supplied in an SMTP environment, **SHOULD** contain both (1) the name of the source host as presented in the EHLO command and (2) an address literal containing the IP address of the source, determined from the TCP connection.
- The ID field **MAY** contain an "@" as suggested in RFC 822, but this is not required.
- The FOR field **MAY** contain a list of <path> entries when multiple RCPT commands have been given. This may raise some security issues and is usually not desirable; see section 7.2.

An Internet mail program **MUST NOT** change a Received: line that was previously added to the message header. SMTP servers **MUST** prepend Received lines to messages; they **MUST NOT** change the order of existing lines or insert Received lines in any other location.

As the Internet grows, comparability of Received fields is important for detecting problems, especially slow relays. SMTP servers that create Received fields SHOULD use explicit offsets in the dates (e.g., -0800), rather than time zone names of any type. Local time (with an offset) is preferred to UT when feasible. This formulation allows slightly more information about local circumstances to be specified. If UT is needed, the receiver need merely do some simple arithmetic to convert the values. Use of UT loses information about the time zone-location of the server. If it is desired to supply a time zone name, it SHOULD be included in a comment.

When the delivery SMTP server makes the "final delivery" of a message, it inserts a return-path line at the beginning of the mail data. This use of return-path is required; mail systems MUST support it. The return-path line preserves the information in the <reverse-path> from the MAIL command. Here, final delivery means the message has left the SMTP environment. Normally, this would mean it had been delivered to the destination user or an associated mail drop, but in some cases it may be further processed and transmitted by another mail system.

It is possible for the mailbox in the return path to be different from the actual sender's mailbox, for example, if error responses are to be delivered to a special error handling mailbox rather than to the message sender. When mailing lists are involved, this arrangement is common and useful as a means of directing errors to the list maintainer rather than the message originator.

The text above implies that the final mail data will begin with a return path line, followed by one or more time stamp lines. These lines will be followed by the mail data headers and body [32].

It is sometimes difficult for an SMTP server to determine whether or not it is making final delivery since forwarding or other operations may occur after the message is accepted for delivery. Consequently,

any further (forwarding, gateway, or relay) systems MAY remove the return path and rebuild the MAIL command as needed to ensure that exactly one such line appears in a delivered message.

A message-originating SMTP system SHOULD NOT send a message that already contains a Return-path header. SMTP servers performing a relay function MUST NOT inspect the message data, and especially not to the extent needed to determine if Return-path headers are present. SMTP servers making final delivery MAY remove Return-path headers

before adding their own.

The primary purpose of the Return-path is to designate the address to which messages indicating non-delivery or other mail system failures are to be sent. For this to be unambiguous, exactly one return path SHOULD be present when the message is delivered. Systems using RFC 822 syntax with non-SMTP transports SHOULD designate an unambiguous address, associated with the transport envelope, to which error reports (e.g., non-delivery messages) should be sent.

Historical note: Text in RFC 822 that appears to contradict the use of the Return-path header (or the envelope reverse path address from the MAIL command) as the destination for error messages is not applicable on the Internet. The reverse path address (as copied into the Return-path) MUST be used as the target of any mail containing delivery error messages.

In particular:

- a gateway from SMTP->elsewhere SHOULD insert a return-path header, unless it is known that the "elsewhere" transport also uses Internet domain addresses and maintains the envelope sender address separately.
- a gateway from elsewhere->SMTP SHOULD delete any return-path header present in the message, and either copy that information to the SMTP envelope or combine it with information present in the envelope of the other transport system to construct the reverse path argument to the MAIL command in the SMTP envelope.

The server must give special treatment to cases in which the processing following the end of mail data indication is only partially successful. This could happen if, after accepting several recipients and the mail data, the SMTP server finds that the mail data could be successfully delivered to some, but not all, of the

recipients. In such cases, the response to the DATA command MUST be an OK reply. However, the SMTP server MUST compose and send an "undeliverable mail" notification message to the originator of the message.

A single notification listing all of the failed recipients or separate notification messages MUST be sent for each failed recipient. For economy of processing by the sender, the former is preferred when possible. All undeliverable mail notification messages are sent using the MAIL command (even if they result from processing the obsolete SEND, SOML, or SAML commands) and use a null

return path as discussed in section 3.7.

The time stamp line and the return path line are formally defined as follows:

Return-path-line = "Return-Path:" FWS Reverse-path <CRLF>

Time-stamp-line = "Received:" FWS Stamp <CRLF>

Stamp = From-domain By-domain Opt-info ";" FWS date-time

 ; where "date-time" is as defined in [32]
 ; but the "obs-" forms, especially
two-digit
 ; years, are prohibited in SMTP and MUST NOT be used.

From-domain = "FROM" FWS Extended-Domain CFWS

By-domain = "BY" FWS Extended-Domain CFWS

Extended-Domain = Domain /
 (Domain FWS "(" TCP-info ")") /
 (Address-literal FWS "(" TCP-info ")")

TCP-info = Address-literal / (Domain FWS Address-literal)
 ; Information derived by server from TCP connection
 ; not client EHLO.

Opt-info = [Via] [With] [ID] [For]

Via = "VIA" FWS Link CFWS

With = "WITH" FWS Protocol CFWS

ID = "ID" FWS String / msg-id CFWS

For = "FOR" FWS 1*(Path / Mailbox) CFWS

Link = "TCP" / Addtl-Link

Addtl-Link = Atom
 ; Additional standard names for links are registered with the
 ; Internet Assigned Numbers Authority (IANA). "Via" is
 ; primarily of value with non-Internet transports. SMTP

 ; servers SHOULD NOT use unregistered names.

Protocol = "ESMTP" / "SMTP" / Attdl-Protocol

Attdl-Protocol = Atom
 ; Additional standard

names for protocols are registered with the
; Internet Assigned Numbers Authority (IANA). SMTP servers
; SHOULD NOT use unregistered names.

4.5 Additional Implementation Issues

4.5.1 Minimum Implementation

In order to make SMTP workable, the following minimum implementation is required for all receivers. The following commands **MUST** be supported to conform to this specification:

EHLO
HELO
MAIL
RCPT
DATA
RSET
NOOP
QUIT
VRFY

Any system that includes an SMTP server supporting mail relaying or delivery **MUST** support the reserved mailbox "postmaster" as a case-insensitive local name. This postmaster address is not strictly necessary if the server always returns 554 on connection opening (as described in section 3.1). The requirement to accept mail for postmaster implies that RCPT commands which specify a mailbox for postmaster at any of the domains for which the SMTP server provides mail service, as well as the special case of "RCPT TO:<Postmaster>" (with no domain specification), **MUST** be supported.

SMTP systems are expected to make every reasonable effort to accept mail directed to Postmaster from any other system on the Internet. In extreme cases --such as to contain a denial of service attack or other breach of security-- an SMTP server may block mail directed to Postmaster. However, such arrangements **SHOULD** be narrowly tailored so as to avoid blocking messages which are not part of such attacks.

4.5.2 Transparency

Without some provision for data transparency, the character sequence "<CRLF>.<CRLF>" ends the mail text and cannot be sent by the user. In general, users are not aware of such "forbidden" sequences. To

allow all user composed text to be transmitted transparently, the following procedures are used:

- Before sending a line of mail text, the SMTP client checks the first character of the line.
If it is a period, one additional period is inserted at the beginning of the line.
- When a line of mail text is received by the SMTP server, it checks the line. If the line is composed of a single period, it is treated as the end of mail indicator. If the first character is a period and there are other characters on the line, the first character is deleted.

The mail data may contain any of the 128 ASCII characters. All characters are to be delivered to the recipient's mailbox, including spaces, vertical and horizontal tabs, and other control characters. If the transmission channel provides an 8-bit byte (octet) data stream, the 7-bit ASCII codes are transmitted right justified in the octets, with the high order bits cleared to zero. See 3.7 for special treatment of these conditions in SMTP systems serving a relay function.

In some systems it may be necessary to transform the data as it is received and stored.

This may be necessary for hosts that use a different character set than ASCII as their local character set, that store data in records rather than strings, or which use special character sequences as delimiters inside mailboxes. If such transformations are necessary, they **MUST** be reversible, especially if they are applied to mail being relayed.

4.5.3 Sizes and Timeouts

4.5.3.1 Size limits and minimums

There are several objects that have required minimum/maximum sizes. Every implementation **MUST** be able to receive objects of at least these sizes. Objects larger than these sizes **SHOULD** be avoided when possible. However, some Internet mail constructs such as encoded X.400 addresses [16] will often require larger objects: clients **MAY** attempt to transmit these, but **MUST** be prepared for a server to reject them if they cannot be handled by it. To the maximum extent possible, implementation techniques which impose no limits on the length of these objects should be used.

local-part

The maximum total length of a user name or other local-part is 64 characters.

domain

The maximum total length of a domain name or number is 255 characters.

path

The maximum total length of a reverse-path or forward-path is 256 characters (including the punctuation and element separators).

command line

The maximum total length of a command line including the command word and the <CRLF> is 512 characters. SMTP extensions may be used to increase this limit.

reply line

The maximum total length of a reply line including the reply code and the <CRLF> is 512 characters. More information may be conveyed through multiple-line replies.

text line

The maximum total length of a text line including the <CRLF> is 1000 characters (not counting the leading dot duplicated for transparency). This number may be increased by the use of SMTP Service Extensions.

message content

The maximum total length of a message content (including any message headers as well as the message body) MUST BE at least 64K octets. Since the introduction of Internet standards for multimedia mail [12], message lengths on the Internet have grown dramatically, and message size restrictions should be avoided if at all possible. SMTP server systems that must impose restrictions SHOULD implement the "SIZE" service extension [18], and SMTP client systems that will send large messages SHOULD utilize it when possible.

recipients buffer

The minimum total number of recipients that must be buffered is 100 recipients. Rejection of messages (for excessive recipients) with fewer than 100 RCPT commands is a violation of this specification. The general principle that relaying SMTP servers MUST NOT, and delivery SMTP servers SHOULD NOT, perform validation tests on message

headers suggests that rejecting a message based

on the total number of recipients shown in header fields is to be discouraged. A server which imposes a limit on the number of recipients MUST behave in an orderly fashion, such as to reject additional addresses over its limit rather than silently discarding addresses previously accepted. A client that needs to

deliver a message containing over 100 RCPT commands SHOULD be prepared to transmit in 100-recipient "chunks" if the server declines to accept more than 100 recipients in a single message.

Errors due to exceeding these limits may be reported by using the reply codes. Some examples of reply codes are:

500 Line too long.
or
501 Path too long
or
452 Too many recipients (see below)
or
552 Too much mail data.

RFC 821 [30] incorrectly listed the error where an SMTP server exhausts its implementation limit on the number of RCPT commands ("too many recipients") as having reply code 552. The correct reply code for this condition is 452. Clients SHOULD treat a 552 code in this case as a temporary, rather than permanent, failure so the logic below works.

When a conforming SMTP server encounters this condition, it has at least 100 successful RCPT commands in its recipients buffer. If the server is able to accept the message, then at least these 100 addresses will be removed from the SMTP client's queue. When the client attempts retransmission of those addresses which received 452 responses, at least 100 of these will be able to fit in the SMTP server's recipients buffer. Each retransmission attempt which is able to deliver anything will be able to dispose of at least 100 of these recipients.

If an SMTP server has an implementation limit on the number of RCPT commands and this limit is exhausted, it MUST use a response code of 452 (but the client SHOULD also be prepared for a 552, as noted above). If the server has a configured site-policy limitation on the number of RCPT commands, it MAY instead use a 5XX response code. This would be most appropriate if the policy limitation was intended to apply if the total recipient count for a particular message body were enforced even if that message body was sent in multiple mail transactions.

4.5.3.2 Timeouts

An SMTP client MUST provide a timeout mechanism. It MUST use per-command timeouts rather than somehow trying to time the entire mail

transaction. Timeouts **SHOULD** be easily reconfigurable, preferably without recompiling the SMTP code. To implement this, a timer is set

for each SMTP command and for each buffer of the data transfer. The latter means that the overall timeout is inherently proportional to the size of the message.

Based on extensive experience with busy mail-relay hosts, the minimum per-command timeout values **SHOULD** be as follows:

Initial

220 Message: 5 minutes

An SMTP client process needs to distinguish between a failed TCP connection and a delay in receiving the initial 220 greeting message. Many SMTP servers accept a TCP connection but delay delivery of the 220 message until their system load permits more mail to be processed.

MAIL Command: 5 minutes

RCPT Command: 5 minutes

A longer timeout is required if processing of mailing lists and aliases is not deferred until after the message was accepted.

DATA Initiation: 2 minutes

This is while awaiting the "354 Start Input" reply to a DATA command.

Data Block: 3 minutes

This is while awaiting the completion of each TCP SEND call transmitting a chunk of data.

DATA Termination: 10 minutes.

This is while awaiting the "250 OK" reply. When the receiver gets the final period terminating the message data, it typically performs processing to deliver the message to a user mailbox.

A

spurious timeout at this point would be very wasteful and would typically result in delivery of multiple copies of the message, since it has been successfully sent and the server has accepted responsibility for delivery. See section 6.1 for additional discussion.

An SMTP server **SHOULD** have a timeout of at least 5 minutes while it is awaiting the next command from the sender.

4.5.4 Retry Strategies

The common structure of a host SMTP implementation includes user mailboxes, one or more areas for queuing messages in transit, and one or more daemon processes for sending and receiving mail. The exact structure will vary depending on the needs of the users on the host

and the number and size of mailing lists supported by the host. We describe several optimizations that have proved helpful, particularly for mailers supporting high traffic levels.

Any queuing strategy **MUST** include timeouts on all activities on a per-command basis. A queuing strategy **MUST NOT** send error messages in response to error messages under any circumstances.

4.5.4.1 Sending Strategy

The general model for an SMTP client is one or more processes that periodically attempt to transmit outgoing mail. In a typical system, the program that composes a message has some method for requesting immediate attention for a new piece of outgoing mail, while mail that cannot be transmitted immediately **MUST** be queued and periodically retried by the sender. A mail queue entry will include not only the message itself but also the envelope information.

The sender **MUST** delay retrying a particular destination after one attempt has failed. In general, the retry interval **SHOULD** be at least 30 minutes; however, more sophisticated and variable strategies will be beneficial when the SMTP client can determine the reason for non-delivery.

Retries continue until the message is transmitted or the sender gives up; the give-up time generally needs to be at least 4-5 days. The parameters to the retry algorithm **MUST** be configurable.

A client **SHOULD** keep a list of hosts it cannot reach and corresponding connection timeouts, rather than just retrying queued mail items.

Experience suggests that failures are typically transient (the target system or its connection has crashed), favoring a policy of two connection attempts in the first hour the message is in the queue, and then backing off to one every two or three hours.

The SMTP client can shorten the queuing delay in cooperation with the SMTP server. For example, if mail is received from a particular address, it is likely that mail queued for that host can now be sent. Application of this principle may, in many cases, eliminate the

requirement for an explicit "send queues now" function such as ETRN [9].

The strategy may be further modified as a result of multiple addresses per host (see below) to optimize delivery time vs. resource usage.

An SMTP client may have a large queue of messages for each unavailable destination host. If all of these messages were retried in every retry cycle, there would be excessive Internet overhead and the sending system would be blocked for a long period. Note that an SMTP client can generally determine that a delivery attempt has failed only after a timeout of several minutes and even a one-minute timeout per connection will result in a very large delay if retries are repeated for dozens, or even hundreds, of queued messages to the same host.

At the same time, SMTP clients **SHOULD** use great care in caching negative responses from servers. In an extreme case, if EHLO is issued multiple times during the same SMTP connection, different answers may be returned by the server. More significantly, 5yz responses to the MAIL command **MUST NOT** be cached.

When a mail message is to be delivered to multiple recipients, and the SMTP server to which a copy of the message is to be sent is the same for multiple recipients, then only one copy of the message **SHOULD** be transmitted. That is, the SMTP client **SHOULD** use the command sequence: MAIL, RCPT, RCPT,... RCPT, DATA instead of the sequence: MAIL, RCPT, DATA, ..., MAIL, RCPT, DATA. However, if there are very many addresses, a limit on the number of RCPT commands per MAIL command **MAY** be imposed. Implementation of this efficiency feature is strongly encouraged.

Similarly, to achieve timely delivery, the SMTP client **MAY** support multiple concurrent outgoing mail transactions. However, some limit may be appropriate to protect the host from devoting all its resources to mail.

4.5.4.2 Receiving Strategy

The SMTP server **SHOULD** attempt to keep a pending listen on the SMTP port at all times. This requires the support of multiple incoming TCP connections for SMTP. Some limit **MAY** be imposed but servers that cannot handle more than one SMTP transaction at a time are not in conformance with the intent of this specification.

As discussed above, when the SMTP server receives mail from a particular host address, it could activate its own SMTP queuing mechanisms to retry any mail pending for that host address.

4.5.5 Messages with a null reverse-path

There are several types of notification messages which are required by existing and proposed standards to be sent with a null reverse path, namely non-delivery notifications as discussed in section 3.7,

other kinds of Delivery Status Notifications (DSNs) [24], and also Message Disposition Notifications (MDNs) [10]. All of these kinds of messages are notifications about a previous message, and they are sent to the reverse-path of the previous mail message. (If the delivery of such a notification message fails, that usually indicates a problem with the mail system of the host to which the notification

message is addressed. For this reason, at some hosts the MTA is set up to forward such failed notification messages to someone who is able to fix problems with the mail system, e.g., via the postmaster alias.)

All other types of messages (i.e., any message which is not required by a standards-track RFC to have a null reverse-path) SHOULD be sent with with a valid, non-null reverse-path.

Implementors of automated email processors should be careful to make sure that the various kinds of messages with null reverse-path are handled correctly, in particular such systems SHOULD NOT reply to messages with null reverse-path.

5. Address Resolution and Mail Handling

Once an SMTP client lexically identifies a domain to which mail will be delivered for processing (as described in sections 3.6 and 3.7), a DNS lookup MUST be performed to resolve the domain name [22]. The names are expected to be fully-qualified domain names (FQDNs): mechanisms for inferring FQDNs from partial names or local aliases are outside of this specification and, due to a history of problems, are generally discouraged. The lookup first attempts to locate an MX record associated with the name. If a CNAME record is found instead, the resulting name is processed as if it were the initial name. If no MX records are found, but an A RR is found, the A RR is treated as if it was associated with an implicit MX RR, with a preference of 0, pointing to that host. If one or more MX RRs are found for a given name, SMTP systems MUST NOT utilize any A RRs associated with that name unless they are located using the MX RRs; the "implicit MX" rule

above applies only if there are no MX records present. If MX records are present, but none of them are usable, this situation **MUST** be reported as an error.

When the lookup succeeds, the mapping can result in a list of alternative delivery addresses rather than a single address, because of multiple MX records, multihoming, or both. To provide reliable mail transmission, the SMTP client **MUST** be able to try (and retry) each of the relevant addresses in this list in order, until a delivery attempt succeeds. However, there **MAY** also be a configurable limit on the number of alternate addresses that can be tried. In any case, the SMTP client **SHOULD** try at least two addresses.

Two types of information is used to rank the host addresses: multiple MX records, and multihomed hosts.

Multiple MX records contain a preference indication that **MUST** be used in sorting (see below). Lower numbers are more preferred than higher ones. If there are multiple destinations with the same preference and there is no clear reason to favor one (e.g., by recognition of an easily-reached address), then the sender-SMTP **MUST** randomize them to spread the load across multiple mail exchangers for a specific organization.

The destination host (perhaps taken from the preferred MX record) may be multihomed, in which case the domain name resolver will return a list of alternative IP addresses. It is the responsibility of the domain name resolver interface to have ordered this list by decreasing preference if necessary, and SMTP **MUST** try them in the order presented.

Although the capability to try multiple alternative addresses is required, specific installations may want to limit or disable the use of alternative addresses. The question of whether a sender should attempt retries using the different addresses of a multihomed host has been controversial. The main argument for using the multiple addresses is that it maximizes the probability of timely delivery, and indeed sometimes the probability of any delivery; the counter-argument is that it may result in unnecessary resource use. Note that resource use is also strongly determined by the sending strategy discussed in section 4.5.4.1.

If an SMTP server receives a message with a destination for which it is a designated Mail eXchanger, it **MAY** relay the message (potentially after having rewritten the MAIL FROM and/or RCPT TO addresses), make

final delivery of the message, or hand it off using some mechanism outside the SMTP-provided transport environment. Of course, neither of the latter require that the list of MX records be examined further.

If it determines that it should relay the message without rewriting the address, it **MUST** sort the MX records to determine candidates for delivery. The records are first ordered by preference, with the lowest-numbered records being most preferred. The relay host **MUST** then inspect the list for any of the names or addresses by which it might be known in mail transactions. If a matching record is found, all records at that preference level and higher-numbered ones **MUST** be discarded from consideration. If there are no records left at that point, it is an error condition, and the message **MUST** be returned as undeliverable. If records do remain, they **SHOULD** be tried, best preference first, as described above.

6. Problem Detection and Handling

6.1 Reliable Delivery and Replies by Email

When the receiver-SMTP accepts a piece of mail (by sending a "250 OK" message in response to DATA), it is accepting responsibility for delivering or relaying the message. It must take this responsibility seriously. It **MUST NOT** lose the message for frivolous reasons, such as because the host later crashes or because of a predictable resource shortage.

If there is a delivery failure after acceptance of a message, the receiver-SMTP **MUST** formulate and mail a notification message. This notification **MUST** be sent using a null ("**<>**") reverse path in the envelope. The recipient of this notification **MUST** be the address from the envelope return path (or the Return-Path: line). However, if this address is null ("**<>**"), the receiver-SMTP **MUST NOT** send a notification. Obviously, nothing in this section can or should prohibit local decisions (i.e., as part of the same system environment as the receiver-SMTP) to log or otherwise transmit information about null address events locally if that is desired. If the address is an explicit source route, it **MUST** be stripped down to its final hop.

For example, suppose that an error notification must be sent for a message that arrived with:

```
MAIL FROM:<@a,@b:user@d>
```

The notification message **MUST** be sent using:

```
RCPT TO:<user@d>
```

Some delivery failures after the message is accepted by SMTP will be unavoidable. For example, it may be impossible for the receiving SMTP server to validate all the delivery addresses in RCPT command(s) due to a "soft" domain system error, because the target is a mailing list (see earlier discussion of RCPT), or because the server is acting as a relay and has no immediate access to the delivering system.

To avoid receiving duplicate messages as the result of timeouts, a receiver-SMTP **MUST** seek to minimize the time required to respond to the final <CRLF>.<CRLF> end of data indicator. See RFC 1047 [28] for a discussion of this problem.

6.2 Loop Detection

Simple counting of the number of "Received:" headers in a message has proven to be an effective, although rarely optimal, method of detecting loops in mail systems. SMTP servers using this technique **SHOULD** use a large rejection threshold, normally at least 100 Received entries. Whatever mechanisms are used, servers **MUST** contain provisions for detecting and stopping trivial loops.

6.3 Compensating for Irregularities

Unfortunately, variations, creative interpretations, and outright violations of Internet mail protocols do occur; some would suggest that they occur quite frequently. The debate as to whether a well-behaved SMTP receiver or relay should reject a malformed message, attempt to pass it on unchanged, or attempt to repair it to increase the odds of successful delivery (or subsequent reply) began almost with the dawn of structured network mail and shows no signs of abating. Advocates of rejection claim that attempted repairs are rarely completely adequate and that rejection of bad messages is the only way to get the offending software repaired. Advocates of "repair" or "deliver no matter what" argue that users prefer that mail go through it if at all possible and that there are significant market pressures in that direction. In practice, these market pressures may be more important to particular vendors than strict conformance to the standards, regardless of the preference of the actual developers.

The problems associated with ill-formed messages were exacerbated by the introduction of the split-UA mail reading protocols [3, 26, 5,

21].

These protocols have encouraged the use of SMTP as a posting protocol, and SMTP servers as relay systems for these client hosts (which are often only intermittently connected to the Internet). Historically, many of those client machines lacked some of the mechanisms and information assumed by SMTP (and indeed, by the mail format protocol [7]). Some could not keep adequate track of time; others had no concept of time zones; still others could not identify their own names or addresses; and, of course, none could satisfy the assumptions that underlay RFC 822's conception of authenticated addresses.

In response to these weak SMTP clients, many SMTP systems now complete messages that are delivered to them in incomplete or incorrect form. This strategy is generally considered appropriate when the server can identify or authenticate the client, and there are prior agreements between them. By contrast, there is at best great concern about fixes applied by a relay or delivery SMTP server that has little or no knowledge of the user or client machine.

The following changes to a message being processed MAY be applied when necessary by an originating SMTP server, or one used as the target of SMTP as an initial posting protocol:

- Addition of a message-id field when none appears
- Addition of a date, time or time zone when none appears
- Correction of addresses to proper FQDN format

The less information the server has about the client, the less likely these changes are to be correct and the more caution and conservatism should be applied when considering whether or not to perform fixes and how. These changes MUST NOT be applied by an SMTP server that provides an intermediate relay function.

In all cases, properly-operating clients supplying correct information are preferred to corrections by the SMTP server. In all cases, documentation of actions performed by the servers (in trace fields and/or header comments) is strongly encouraged.

7. Security Considerations

7.1 Mail Security and Spoofing

SMTP mail is inherently insecure in that it is feasible for even

fairly casual users to negotiate directly with receiving and relaying SMTP servers and create messages that will trick a naive recipient into believing that they came from somewhere else. Constructing such a message so that the "spoofed" behavior cannot be detected by an expert is somewhat more difficult, but not sufficiently so as to be a deterrent to someone who is determined and knowledgeable. Consequently, as knowledge of Internet mail increases, so does the knowledge that SMTP mail inherently cannot be authenticated, or integrity checks provided, at the transport level. Real mail security lies only in end-to-end methods involving the message bodies, such as those which use digital signatures (see [14] and, e.g., PGP [4] or S/MIME [31]).

Various protocol

extensions and configuration options that provide authentication at the transport level (e.g., from an SMTP client to an SMTP server) improve somewhat on the traditional situation described above. However, unless they are accompanied by careful handoffs of responsibility in a carefully-designed trust environment, they remain inherently weaker than end-to-end mechanisms which use digitally signed messages rather than depending on the integrity of the transport system.

Efforts to make it more difficult for users to set envelope return path and header "From" fields to point to valid addresses other than their own are largely misguided: they frustrate legitimate applications in which mail is sent by one user on behalf of another or in which error (or normal) replies should be directed to a special address. (Systems that provide convenient ways for users to alter these fields on a per-message basis should accept to establish a primary and permanent mailbox address for the user so that Sender fields within the message data can be generated sensibly.)

This specification does not further address the authentication issues associated with SMTP other than to advocate that useful functionality not be disabled in the hope of providing some small margin of protection against an ignorant user who is trying to fake mail.

7.2 "Blind" Copies

Addresses that do not appear in the message headers may appear in the RCPT commands to an SMTP server for a number of reasons. The two most common involve the use of a mailing address as a "list exploder" (a single address that resolves into multiple addresses) and the appearance of "blind copies". Especially when more than one RCPT command is present, and in order to avoid defeating some of the purpose of these mechanisms, SMTP clients and servers SHOULD NOT copy

the full set of RCPT command arguments into the headers, either as part of trace headers or as informational or private-extension headers. Since this rule is often violated in practice, and cannot be enforced, sending SMTP systems that are aware of "bcc" use MAY find it helpful to send each blind copy as a separate message transaction containing only a single RCPT command.

There is no inherent relationship between either "reverse" (from MAIL, SAML, etc., commands) or "forward" (RCPT) addresses in the SMTP transaction ("envelope") and the addresses in the headers. Receiving systems SHOULD NOT attempt to deduce such relationships and use them to alter the headers of the message for delivery. The popular "Apparently-to" header is a violation of this principle as well as a common source of unintended information disclosure and SHOULD NOT be used.

7.3 VRFY, EXPN, and Security

As discussed in section 3.5, individual sites may want to disable either or both of VRFY or EXPN for security reasons. As a corollary to the above, implementations that permit this MUST NOT appear to have verified addresses that are not, in fact, verified. If a site

disables these commands for security reasons, the SMTP server MUST return a 252 response, rather than a code that could be confused with successful or unsuccessful verification.

Returning a 250 reply code with the address listed in the VRFY command after having checked it only for syntax violates this rule. Of course, an implementation that "supports" VRFY by always returning 550 whether or not the address is valid is equally not in conformance.

Within the last few years, the contents of mailing lists have become popular as an address information source for so-called "spammers." The use of EXPN to "harvest" addresses has increased as list administrators have installed protections against inappropriate uses of the lists themselves. Implementations SHOULD still provide support for EXPN, but sites SHOULD carefully evaluate the tradeoffs.

As authentication mechanisms are introduced into SMTP, some sites may choose to make EXPN available only to authenticated requestors.

7.4 Information Disclosure in Announcements

There has been an ongoing debate about the tradeoffs between the

debugging advantages of announcing server type and version (and, sometimes, even server domain name) in the greeting response or in response to the HELP command and the disadvantages of exposing information that might be useful in a potential hostile attack. The utility of the debugging information is beyond doubt. Those who argue for making it available point out that it is far better to actually secure an SMTP server rather than hope that trying to conceal known vulnerabilities by hiding the server's precise identity will provide more protection. Sites are encouraged to evaluate the tradeoff with that issue in mind; implementations are strongly encouraged to minimally provide for making type and version information available in some way to other network hosts.

7.5 Information Disclosure in Trace Fields

In some circumstances, such as when mail originates from within a LAN whose hosts are not directly on the public Internet, trace ("Received") fields produced in conformance with this specification may disclose host names and similar information that would not normally be available. This ordinarily does not pose a problem, but sites with special concerns about name disclosure should be aware of it. Also, the optional FOR clause should be supplied with caution or not at all when multiple recipients are involved lest it inadvertently disclose the identities of "blind copy" recipients to others.

7.6 Information Disclosure in Message Forwarding

As discussed in section 3.4, use of the 251 or 551 reply codes to identify the replacement address associated with a mailbox may inadvertently disclose sensitive information. Sites that are concerned about those issues should ensure that they select and configure servers appropriately.

7.7 Scope of Operation of SMTP Servers

It is a well-established principle that an SMTP server may refuse to accept mail for any operational or technical reason that makes sense to the site providing the server. However, cooperation among sites and installations makes the Internet possible. If sites take excessive advantage of the right to reject traffic, the ubiquity of email availability (one of the strengths of the Internet) will be threatened; considerable care should be taken and balance maintained if a site decides to be selective about the traffic it will accept and process.

In recent years, use of the relay function through arbitrary sites has been used as part of hostile efforts to hide the actual origins of mail. Some sites have decided to limit the use of the relay function to known or identifiable sources, and implementations **SHOULD** provide the capability to perform this type of filtering. When mail is rejected for these or other policy reasons, a 550 code **SHOULD** be used in response to EHLO, MAIL, or RCPT as appropriate.

8. IANA Considerations

IANA will maintain three registries in support of this specification. The first consists of SMTP service extensions with the associated keywords, and, as needed, parameters and verbs. As specified in section 2.2.2, no entry may be made in this registry that starts in an "X". Entries may be made only for service extensions (and associated keywords, parameters, or verbs) that are defined in standards-track or experimental RFCs specifically approved by the IESG for this purpose.

The second registry consists of "tags" that identify forms of domain literals other than those for IPv4 addresses (specified in RFC 821 and in this document) and IPv6 addresses (specified in this document). Additional literal types require standardization before being used; none are anticipated at this time.

The third, established by RFC 821 and renewed by this specification, is a registry of link and protocol identifiers to be used with the "via" and "with" subclauses of the time stamp ("Received: header")

described in section 4.4. Link and protocol identifiers in addition to those specified in this document may be registered only by standardization or by way of an RFC-documented, IESG-approved, Experimental protocol extension.

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11. Acknowledgments

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APPENDICES

A. TCP Transport Service

The TCP connection supports the transmission of 8-bit bytes. The SMTP data is 7-bit ASCII characters. Each character is transmitted as an 8-bit byte with the high-order bit cleared to zero. Service extensions may modify this rule to permit transmission of full 8-bit data bytes as part of the message body, but not in SMTP commands or responses.

B. Generating SMTP Commands from RFC 822 Headers

Some systems use RFC 822 headers (only) in a mail submission protocol, or otherwise generate SMTP commands from RFC 822 headers

when such a message is handed to an MTA from a UA. While the MTA-UA protocol is a private matter, not covered by any Internet Standard, there are problems with this approach. For example, there have been repeated problems with proper handling of "bcc" copies and redistribution lists when information that conceptually belongs to a mail envelope is not separated early in processing from header information (and kept separate).

It is recommended that the UA provide its initial ("submission client") MTA with an envelope separate from the message itself. However, if the envelope is not supplied, SMTP commands **SHOULD** be generated as follows:

1. Each recipient address from a TO, CC, or BCC header field **SHOULD** be copied to a RCPT command (generating multiple message copies if that is required for queuing or delivery). This includes any addresses listed in a RFC 822 "group". Any BCC fields **SHOULD** then be removed from the headers. Once this process is completed, the remaining headers **SHOULD** be checked to verify that at least one To:, Cc:, or Bcc: header remains. If none do, then a bcc: header with no additional information **SHOULD** be inserted as specified in [32].
2. The return address in the MAIL command **SHOULD**, if possible, be derived from the system's identity for the submitting (local) user, and the "From:" header field otherwise. If there is a system identity available, it **SHOULD** also be copied to the Sender header field if it is different from the address in the From header field. (Any Sender field that was already there **SHOULD** be removed.) Systems may provide a way for submitters to override the envelope return address, but may want to restrict its use to privileged users. This will not prevent mail forgery, but may lessen its incidence; see section 7.1.

When an MTA is being used in this way, it bears responsibility for ensuring that the message being transmitted is valid. The mechanisms for checking that validity, and for handling (or returning) messages that are not valid at the time of arrival, are part of the MUA-MTA interface and not covered by this specification.

A submission protocol based on Standard RFC 822 information alone **MUST NOT** be used to gateway a message from a foreign (non-SMTP) mail system into an SMTP environment. Additional information to construct an envelope must come from some source in the other environment, whether supplemental headers or the foreign system's envelope.

Attempts to gateway messages using only their header "to" and "cc" fields have repeatedly caused mail loops and other behavior adverse to the proper functioning of the Internet mail environment. These problems have been especially common when the message originates from an Internet mailing list and is distributed into the foreign environment using envelope information. When these messages are then processed by a header-only remailer, loops back to the Internet environment (and the mailing list) are almost inevitable.

C. Source Routes

Historically, the <reverse-path> was a reverse source routing list of hosts and a source mailbox. The first host in the <reverse-path> SHOULD be the host sending the MAIL command. Similarly, the <forward-path> may be a source routing lists of hosts and a destination mailbox. However, in general, the <forward-path> SHOULD contain only a mailbox and domain name, relying on the domain name system to supply routing information if required. The use of source routes is deprecated; while servers MUST be prepared to receive and handle them as discussed in section 3.3 and F.2, clients SHOULD NOT transmit them and this section was included only to provide context.

For relay purposes, the forward-path may be a source route of the form "@ONE,@TWO:JOE@THREE", where ONE, TWO, and THREE MUST BE fully-qualified domain names. This form is used to emphasize the distinction between an address and a route. The mailbox is an absolute address, and the route is information about how to get there. The two concepts should not be confused.

If source routes are used, RFC 821 and the text below should be consulted for the mechanisms for constructing and updating the forward- and reverse-paths.

The SMTP server transforms the command arguments by moving its own identifier (its domain name or that of any domain for which it is acting as a mail exchanger), if it appears, from the forward-path to the beginning of the reverse-path.

Notice that the forward-path and reverse-path appear in the SMTP commands and replies, but not necessarily in the message. That is, there is no need for these paths and especially this syntax to appear in the "To:", "From:", "CC:", etc. fields of the message header. Conversely, SMTP servers MUST NOT derive final message delivery information from message header fields.

When the list of hosts is present, it is a "reverse" source route and indicates that the mail was relayed through each host on the list (the first host in the list was the most recent relay). This list is used as a source route to return non-delivery notices to the sender. As each relay host adds itself to the beginning of the list, it **MUST** use its name as known in the transport environment to which it is relaying the mail rather than that of the transport environment from which the mail came (if they are different).

D. Scenarios

This section presents complete scenarios of several types of SMTP sessions. In the examples, "C:" indicates what is said by the SMTP client, and "S:" indicates what is said by the SMTP server.

D.1 A Typical SMTP Transaction Scenario

This SMTP example shows mail sent by Smith at host bar.com, to Jones, Green, and Brown at host foo.com. Here we assume that host bar.com contacts host foo.com directly. The mail is accepted for Jones and Brown. Green does not have a mailbox at host foo.com.

S: 220 foo.com Simple Mail Transfer Service Ready

C: EHLO bar.com

S: 250-foo.com greets bar.com

S: 250-8BITMIME

S: 250-SIZE

S: 250-DSN

S: 250 HELP

C: MAIL FROM:<Smith@bar.com>

S: 250 OK

C: RCPT TO:<Jones@foo.com>

S: 250 OK

C: RCPT TO:<Green@foo.com>

S: 550 No such user here

C: RCPT TO:<Brown@foo.com>

S: 250 OK

C: DATA

S: 354 Start mail input; end with <CRLF>.<CRLF>

C: Blah blah blah...

C: ...etc. etc. etc.

C: .

S: 250 OK

C: QUIT

S: 221 foo.com Service closing transmission

channel

D.2 Aborted SMTP Transaction Scenario

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<Smith@bar.com>
S: 250 OK
C: RCPT TO:<Jones@foo.com>
S: 250 OK
C: RCPT TO:<Green@foo.com>
S: 550 No such user here
C: RSET
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.3 Relayed Mail Scenario

Step 1 -- Source Host to Relay Host

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<JQP@bar.com>
S: 250 OK
C: RCPT TO:<@foo.com:Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Date: Thu, 21 May 1998 05:33:29 -0700

C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting of the board of directors will be

C: on Tuesday.
C: John.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

Step 2 -- Relay Host to Destination Host

S: 220 xyz.com Simple Mail Transfer Service Ready
C: EHLO foo.com
S: 250 xyz.com is on the air
C: MAIL FROM:<@foo.com:JQP@bar.com>
S: 250 OK
C: RCPT TO:<Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Received: from bar.com by foo.com ; Thu, 21 May 1998
C: 05:33:29 -0700
C: Date: Thu, 21 May 1998 05:33:22 -0700
C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting
of the board of directors will be
C: on Tuesday.
C: John.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.4 Verifying and Sending Scenario

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN

S: 250-VRFY
S: 250 HELP
C: VRFY Crispin
S: 250 Mark Crispin <Admin.MRC@foo.com>

C: SEND FROM:<EAK@bar.com>
S: 250 OK
C: RCPT TO:<Admin.MRC@foo.com>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Blah blah blah...
C: ...etc. etc. etc.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

E. Other Gateway Issues

In general, gateways between the Internet and other mail systems SHOULD attempt to preserve any layering semantics across the boundaries between the two mail systems involved. Gateway-translation approaches that attempt to take shortcuts by mapping, (such as envelope information from one system to the message headers or body of another) have generally proven to be inadequate in important ways. Systems translating between environments that do not support both envelopes and headers and Internet mail must be written with the understanding that some information loss is almost inevitable.

F. Deprecated Features of RFC 821

A few features of RFC 821 have proven to be problematic and SHOULD NOT be used in Internet mail.

F.1 TURN

This command, described in RFC 821, raises important security issues since, in the absence of strong authentication of the host requesting that the client and server switch roles, it can easily be used to divert mail from its correct destination. Its use is deprecated; SMTP systems SHOULD NOT use it unless the server can authenticate the client.

F.2

Source Routing

RFC 821 utilized the concept of explicit source routing to get mail from one host to another via a series of relays. The requirement to utilize source routes in regular mail traffic was eliminated by the introduction of the domain name system "MX" record and the last

significant justification for them was eliminated by the introduction, in RFC 1123, of a clear requirement that addresses following an "@" must all be fully-qualified domain names. Consequently, the only remaining justifications for the use of source routes are support for very old SMTP clients or MUAs and in mail system debugging. They can, however, still be useful in the latter circumstance and for routing mail around serious, but temporary, problems such as problems with the relevant DNS records.

SMTP servers **MUST** continue to accept source route syntax as specified in the main body of this document and in RFC 1123. They **MAY**, if necessary, ignore the routes and utilize only the target domain in the address. If they do utilize the source route, the message **MUST** be sent to the first domain shown in the address. In particular, a server **MUST NOT** guess at shortcuts within the source route.

Clients **SHOULD NOT** utilize explicit source routing except under unusual circumstances, such as debugging or potentially relaying around firewall or mail system configuration errors.

F.3 HELO

As discussed in sections 3.1 and 4.1.1, EHLO is strongly preferred to HELO when the server will accept the former. Servers must continue to accept and process HELO in order to support older clients.

F.4 #-literals

RFC 821 provided for specifying an Internet address as a decimal integer host number prefixed by a pound sign, "#". In practice, that form has been obsolete since the introduction of TCP/IP. It is deprecated and **MUST NOT** be used.

F.5 Dates and Years

When dates are inserted into messages by SMTP clients or servers (e.g., in trace fields), four-digit years **MUST BE** used. Two-digit years are deprecated; three-digit years were never permitted in the Internet mail system.

F.6 Sending versus Mailing

In addition to specifying a mechanism for delivering messages to user's mailboxes, RFC 821 provided additional, optional, commands to deliver messages directly to the user's terminal screen. These commands (SEND, SAML, SOML) were rarely implemented, and changes in

workstation technology and the introduction of other protocols may have rendered them obsolete even where they are implemented.

Clients **SHOULD NOT** provide SEND, SAML, or SOML as services. Servers **MAY** implement them. If they are implemented by servers, the implementation model specified in RFC 821 **MUST** be used and the command names **MUST** be published in the response to the EHLO command.

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Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2821 Simple Mail Transfer Protocol.txt
No license file was found, but licenses were detected in source scan.

Network Working Group

E. Levinson

Content-ID and Message-ID Uniform Resource Locators

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

The Uniform Resource Locator (URL) schemes, "cid:" and "mid:" allow references to messages and the body parts of messages. For example, within a single multipart message, one HTML body part might include embedded references to other parts of the same message.

1. Introduction

The use of [MIME] within email to convey Web pages and their associated images requires a URL scheme to permit the HTML to refer to the images or other data included in the message. The Content-ID Uniform Resource Locator, "cid:", serves that purpose.

Similarly Net News readers use Message-IDs to link related messages together. The Message-ID URL provides a scheme, "mid:", to refer to such messages as a "resource".

The "mid" (Message-ID) and "cid" (Content-ID) URL schemes provide identifiers for messages and their body parts. The "mid" scheme uses (a part of) the message-id of an email message to refer to a specific message. The "cid" scheme refers to a specific body part of a message; its use is generally limited to references to other body parts in the same message as the referring body part. The "mid" scheme may also refer to a specific body part within a designated message, by including the content-ID's address.

A note on terminology. The terms "body part" and "MIME entity" are used interchangeably. They refer to the headers and body of a MIME message, either the message itself or one of the body parts contained in a Multipart message.

2. The MID and CID URL Schemes

RFC1738 [URL] reserves the "mid" and "cid" schemes for Message-ID and Content-ID respectively. This memorandum defines the syntax for those URLs. Because they use the same syntactic elements they are presented together.

The URLs take the form

content-id = url-addr-spec

message-id = url-addr-spec

url-addr-spec = addr-spec ; URL encoding of RFC 822 addr-spec

cid-url = "cid" ":" content-id

mid-url = "mid" ":" message-id ["/" content-id]

Note: in Internet mail messages,
the addr-spec in a Content-ID

[MIME] or Message-ID [822] header are enclosed in angle brackets (<>). Since addr-spec in a Message-ID or Content-ID might contain characters not allowed within a URL; any such character (including "/", which is reserved within the "mid" scheme) must be hex-encoded using the %hh escape mechanism in [URL].

A "mid" URL with only a "message-id" refers to an entire message. With the appended "content-id", it refers to a body part within a message, as does a "cid" URL. The Content-ID of a MIME body part is required to be globally unique. However, in many systems that store messages, body parts are not indexed independently their context (message). The "mid" URL long form was designed to supply the context needed to support interoperability with such systems.

A implementation conforming to this specification is required to support the "mid" URL long form (message-id/content-id). Conforming implementations

can choose to, but are not required to, take advantage of the content-id's uniqueness and interpret a "cid" URL to refer to any body part within the message store.

In limited circumstances (e.g., within multipart/alternate), a single message may contain several body parts that have the same Content-ID. That occurs, for example, when identical data can be accessed through different methods [MIME, sect. 7.2.3]. In those cases, conforming implementations are required to use the rules of the containing MIME entity (e.g., multi-part/alternate) to select the body part to which the Content-ID refers.

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A "cid" URL is converted to the corresponding Content-ID message header [MIME] by removing the "cid:" prefix, converting %hh hex-escaped characters to their ASCII equivalents and enclosing the remaining parts with an angle bracket pair, "<" and ">". For example, "mid:foo4%25foo1@bar.net" corresponds to

Message-ID: <foo4%foo1@bar.net>

A "mid" URL is converted to a Message-ID or Message-ID/Content-ID pair in a similar fashion.

Both message-id and content-id are required to be globally unique. That is, no two different messages will ever have the same Message-ID addr-spec; no different body parts will ever have the same Content-ID addr-spec. A common technique used by many message systems is to use a time and date stamp along with the local host's domain name, e.g., 950124.162336@XIson.com.

Some Examples

The following message contains an HTML body part that refers to an image contained in another body part. Both body parts are contained in a Multipart/Related MIME entity. The HTML IMG tag contains a cidurl which points to the image.

From: foo1@bar.net
To: foo2@bar.net
Subject: A simple example

Mime-Version:
1.0
Content-Type: multipart/related; boundary="boundary-example-1";
type=Text/HTML

--boundary-example 1
Content-Type: Text/HTML; charset=US-ASCII

... text of the HTML document, which might contain a hyperlink
to the other body part, for example through a statement such as:

--boundary-example-1
Content-ID: foo4*foo1@bar.net
Content-Type: IMAGE/GIF
Content-Transfer-Encoding: BASE64

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R0lGODlhGAGgAPEAAP/////ZRaCgoAAAACH+PUNvcHlyaWdodCAoQykgMTk5
NSBJRVRGLiBVbmFlbGhvcml6ZWQgZHVwbGljYXRpb24gcHJvaGliaXRIZC4A
etc...

--boundary-example-1--

The following message points to another message (hopefully still in
the recipient's message store).

From: bar@none.com
To: phooey@all.com
Subject: Here's how to do it
Content-type: text/html; charset=usascii

... The items in my

previous message, shows how the approach you propose can be
used to accomplish ...

3. Security Considerations

The URLs defined here provide an addressing or referencing mechanism. The values of these URLs disclose no more about the originators environment than the corresponding Message-ID and Content-ID values. Where concern exists about such disclosures the originator of a message using mid and cid URLs must take precautions to insure that confidential information is not disclosed. Those precautions should already be in place to handle existing mail use of the Message-ID and Content-ID.

4. References

[822] Crocker, D., "Standard for the Format of ARPA Internet Text Messages," August 1982, University of Delaware, STD 11, RFC 822.

[MIME] N. Borenstein, N. Freed, "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies," September 1993, RFC 1521.

[URL] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)," December 1994.

[MULREL] E. Levinson, "The MIME Multipart/Related Content-type," December 1995, RFC 1874.

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5. Acknowledgments

The original concept of "mid" and "cid" URLs were part of the Tim Berners-Lee's original vision of the World Wide Web. The ideas and design have benefited greatly by discussions with Harald Alvestrand, Dan Connolly, Roy Fielding, Larry Masinter, Jacob Palme, and others in the MHTML working group.

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Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2111 Content-ID and Message-ID
URLs.txt

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

= Mail

== Introduction

Mail is an internet library for Ruby that is designed to handle emails generation, parsing and sending in a simple, rubyesque manner.

The purpose of this library is to provide a single point of access to handle all email functions, including sending and receiving emails. All network type actions are done through proxy methods to Net::SMTP, Net::POP3 etc.

Built from my experience with TMail, it is designed to be a pure ruby implementation that makes generating, sending and parsing emails a no brainer.

It is also designed from the ground up to work with Ruby 1.9. This is because Ruby 1.9 handles text encodings much more magically than Ruby 1.8.x and so these features have been taken full advantage of in this library allowing Mail to handle a lot more messages more cleanly than TMail. Mail does run on Ruby 1.8.x... it's just not as fun to code.

Finally, Mail has been designed with a very simple object oriented system that really opens up the email messages you are parsing, if you know what you are doing, you can fiddle with every last bit of your email directly.

== Compatibility

Mail is tested and works on the following platforms:

- * jruby-1.5.2 [x86_64-java]
- * ree-1.8.7-2010.02 [x86_64]
- * ruby-1.8.6-p399 [x86_64]
- * ruby-1.8.7-p302 [x86_64]
- * ruby-1.9.2-p0 [x86_64]

== Discussion

If you want to discuss mail with like minded individuals, please subscribe to the Google Group <http://groups.google.com/group/mail-ruby>

== Current Capabilities of Mail

- * RFC2822 Support, Reading and Writing
- * RFC2045-2049 Support for multipart emails
- * Support for creating multipart alternate emails

- * Support for reading multipart/report emails & getting details from such
- * Support for multibyte emails - needs quite a lot of work and testing
- * Wrappers for File, Net/POP3, Net/SMTP
- * Auto encoding of non US-ASCII header fields
- * Auto encoding of non US-ASCII bodies

Mail is RFC2822

compliant now, that is, it can parse and generate valid US-ASCII emails. There are a few obsoleted syntax emails that it will have problems with, but it also is quite robust, meaning, if it finds something it doesn't understand it will not crash, instead, it will skip the problem and keep parsing. In the case of a header it doesn't understand, it will initialise the header as an optional unstructured field and continue parsing.

This means Mail won't (ever) crunch your data (I think).

You can also create MIME emails. There are helper methods for making a multipart/alternate email for text/plain and text/html (the most common pair) and you can manually create any other type of MIME email.

== Roadmap

Next TODO:

- * Improve MIME support for character sets in headers, currently works, mostly, needs refinement.

== Testing Policy

Basically... we do BDD on Mail. No method gets written in Mail without a corresponding or covering spec. We expect as a minimum 100% coverage measured

by RCov. While this is not perfect by any measure, it is pretty good. Additionally, all functional tests from TMail are to be passing before the gem gets released.

It also means you can be sure Mail will behave correctly.

== API Policy

No API removals within a single point release. All removals to be depreciated with warnings for at least one MINOR point release before removal.

Also, all private or protected methods to be declared as such - though this is still I/P.

== Installation

Installation is fairly simple, I host mail on rubygems, so you can just do:

gem install mail

== Encodings

If you didn't know, handling encodings in Emails is not as straight forward as you would hope.

I have tried to simplify it some:

1. All objects that can render into an email, have an :encoded method. Encoded will return the object as a complete string ready to send in the mail system, that is, it will include the header field and value and CRLF at the end and wrapped as needed.
2. All objects that can render into an email, have a :decoded method. Decoded will return the object's "value" only as a string. This means it will not include the header fields (like 'To:' or 'Subject:').
3. By default, calling :to_s on a container object will call it's encoded method, while :to_s on a field object will call it's decoded method. So calling :to_s on a Mail object will return the mail, all encoded ready to send, while calling :to_s on the From field or the body will return the decoded value of the object. The header object of Mail is considered a container. If you are in doubt, call :encoded, or :decoded explicitly, this is safer if you are not sure.
4. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide decoded parameter values when you call the parameter names as methods against the object.
5. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide encoded parameter values when you call the parameter names through the object.parameters['<parameter_name>'] method call.

== Contributing

Please do! Contributing is easy in Mail:

1. Check the Reference RFCs, they are in the References directory, so no excuses.
2. Open a ticket on github, maybe someone else has the problem too
3. Make a fork of my github repository
4. Make a spec driven change to the code base
5. Make sure it works and all specs pass, on Ruby versions 1.8.6, 1.8.7 and 1.9
6. Update the README if needed to reflect your change / addition
7. With all specs passing push your changes back to your fork
8. Send me a pull request

== Usage

All major mail functions should be able to happen from the Mail::module.
So, you should be able to just "require 'mail'" to get started.

=== Making an email

```
require 'mail'
```

```
mail = Mail.new do
  from 'mikel@test.lindsaar.net'
  to 'you@test.lindsaar.net'
  subject 'This is a test email'
  body File.read('body.txt')
end
```

```
mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@ ...
```

=== Making an email, have it your way:

```
require 'mail'
```

```
mail = Mail.new do
  body File.read('body.txt')
end
```

```
mail['from'] = 'mikel@test.lindsaar.net'
mail[:to] = 'you@test.lindsaar.net'
mail.subject = 'This is a test email'
```

```
mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@ ...
```

=== Don't Worry About Message IDs:

```
require 'mail'
```

```
mail = Mail.new do
  to 'you@test.lindsaar.net'
  body 'Some simple body'
end
```

```
mail.to_s =~ /Message-ID: <[d\w_]+@.+.mail/ #=> 27
```

Mail will automatically add a Message-ID field if it is missing and
give it a unique, random Message-ID along the lines of:

```
<4a7ff76d7016_13a81ab802e1@local.fqdn.mail>
```

=== Or do worry about Message-IDs:

```
require 'mail'
```

```
mail = Mail.new do
  to 'you@test.lindsaar.net'
  message_id '<ThisIsMyMessageId@some.domain.com>'
  body 'Some simple body'
end
```

```
mail.to_s =~ /Message\-ID: <ThisIsMyMessageId@some.domain.com>/
#=> 27
```

Mail will take the message_id you assign to it trusting that you know what you are doing.

=== Sending an email:

Mail defaults to sending via SMTP to local host port 25. If you have a sendmail or postfix daemon running on on this port, sending email is as easy as:

```
Mail.deliver do
  from 'me@test.lindsaar.net'
  to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
  body File.read('body.txt')
  add_file '/full/path/to/somefile.png'
end
```

or

```
mail = Mail.new do
  from 'me@test.lindsaar.net'
  to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
  body File.read('body.txt')
  add_file { :filename => 'somefile.png', :content => File.read('/somefile.png') }
end
```

```
mail.deliver!
```

Sending via sendmail can be done like so:

```
mail = Mail.new do
  from 'me@test.lindsaar.net'
  to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
```

```

    body File.read('body.txt')
  add_file { :filename
=> 'somefile.png', :content => File.read('/somefile.png')}
end

```

mail.delivery_method :sendmail

mail.deliver

{Learn more about SMTP Delivery}[link:classes/Mail/SMTP.html]

{Learn more about File Delivery}[link:classes/Mail/FileDelivery.html]

{Learn more about Sendmail Delivery}[link:classes/Mail/Sendmail.html]

{Learn more about Test Email Delivery}[link:classes/Mail/TestMailer.html]

=== Getting emails from a pop server:

The most recent email:

```

Mail.defaults do
  retriever_method :pop3, { :address      => "pop.gmail.com",
                           :port         => 995,
                           :user_name    => '<username>',
                           :password     => '<password>',
                           :enable_ssl   => true }
end

```

Mail.all #=> Returns an array of all emails

Mail.first #=> Returns the first unread email

Mail.last #=> Returns the first unread email

The first 10 emails sorted by date in ascending order:

require 'mail'

```

Mail.defaults do
  retriever_method :pop3, { :address      => "pop.gmail.com",
                           :port         => 995,
                           :user_name    => '<username>',
                           :password     => '<password>',
                           :enable_ssl   => true }
end

```

emails = Mail.find(:what => :first, :count => 10, :order => :asc)

emails.length #=> 10

Or even all emails:

Mail.defaults do

```
  retriever_method :pop3, { :address      => "pop.gmail.com",
                             :port        => 995,
                             :user_name   => '<username>',
                             :password    => '<password>',
                             :enable_ssl  => true }
end
```

end

emails = Mail.all

emails.length #=> LOTS!

{ Learn more about POP3 }[link:classes/Mail/POP3.html]

{ Learn more about IMAP }[link:classes/Mail/IMAP.html]

=== Reading an
Email

require 'mail'

mail = Mail.read('/path/to/message.eml')

```
mail.envelope.from  #=> 'mikel@test.lindsaar.net'
mail.from.addresses #=> ['mikel@test.lindsaar.net', 'ada@test.lindsaar.net']
mail.sender.address #=> 'mikel@test.lindsaar.net'
mail.to             #=> 'bob@test.lindsaar.net'
mail.cc             #=> 'sam@test.lindsaar.net'
mail.subject        #=> "This is the subject"
mail.date.to_s      #=> '21 Nov 1997 09:55:06 -0600'
mail.message_id     #=> '<4D6AA7EB.6490534@xxx.xxx>'
mail.body.decoded   #=> "This is the body of the email..."
```

Many more methods available.

=== Reading a Multipart Email

require 'mail'

mail = Mail.read('multipart_email')

```
mail.multipart?    #=> true
mail.parts.length  #=> 2
mail.preamble       #=> "Text before the first part"
mail.epilogue       #=> "Text after the last part"
```

```
mail.parts.map { |p| p.content_type } #=> ['text/plain', 'application/pdf']
mail.parts.map { |p| p.class } #=> [Mail::Message,
  Mail::Message]
mail.parts[0].content_type_parameters #=> {'charset' => 'ISO-8859-1'}
mail.parts[1].content_type_parameters #=> {'name' => 'my.pdf'}
```

Mail generates a tree of parts. Each message has many or no parts. Each part is another message which can have many or no parts.

A message will only have parts if it is a multipart/mixed or related/mixed content type and has a boundary defined.

=== Writing and sending a multipart/alternative (html and text) email

Mail makes some basic assumptions and makes doing the common thing as simple as possible.... (asking a lot from a mail library)

```
require 'mail'
```

```
mail = Mail.deliver do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'This is plain text'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>This is HTML</h1>'
  end
end
```

Mail then delivers the email at the end of the block and returns the resulting Mail::Message object, which you can then inspect if you so desire...

```
puts mail.to_s #=>
```

```
To: nicolas@test.lindsaar.net.au
From: Mikel Lindsaar <mikel@test.lindsaar.net.au>
Subject: First multipart email sent with Mail
Content-Type: multipart/alternative;
  boundary=--==_mimepart_4a914f0c911be_6f0f1ab8026659
Message-ID: <4a914f12ac7e_6f0f1ab80267d1@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
```

```
-----=_mimepart_4a914f0c911be_6f0f1ab8026659
Content-ID: <4a914f12c8c4_6f0f1ab80268d6@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
```

This is plain text

```
-----=_mimepart_4a914f0c911be_6f0f1ab8026659
Content-Type: text/html; charset=UTF-8
Content-ID: <4a914f12cf86_6f0f1ab802692c@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
```

<h1>This is HTML</h1>

```
-----=_mimepart_4a914f0c911be_6f0f1ab8026659--
```

Mail inserts the content transfer encoding, the mime version, the content-id's and handles the content-type and boundary.

Mail assumes that if your text in the body is only us-ascii, that your transfer encoding is 7bit and it is text/plain. You can override this by explicitly declaring it.

=== Making Multipart/Alternate, without a block

You don't have to use a block with the text and html part included, you can just do it declaratively. However, you need to add Mail::Parts to an email, not Mail::Messages.

require 'mail'

```
mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
end
```

```
text_part = Mail::Part.new do
  body 'This is plain text'
end
```

```
html_part = Mail::Part.new do
  content_type 'text/html; charset=UTF-8'
  body '<h1>This is HTML</h1>'
```

end

```
mail.text_part = text_part
mail.html_part = html_part
```

Results in the
same email as done using the block form

=== Getting error reports from an email:

```
require 'mail'
```

```
@mail = Mail.read('/path/to/bounce_message.eml')
```

```
@mail.bounced?      #=> true
@mail.final_recipient #=> rfc822;mikel@dont.exist.com
@mail.action         #=> failed
@mail.error_status   #=> 5.5.0
@mail.diagnostic_code #=> smtp;550 Requested action not taken: mailbox unavailable
@mail.retryable?     #=> false
```

=== Attaching and Detaching Files

```
require 'mail'
```

You can just read the file off an absolute path, Mail will try
to guess the mime_type and will encode the file in Base64 for you.

```
@mail = Mail.new
@mail.add_file("/path/to/file.jpg")
@mail.parts.first.attachment? #=> true
@mail.parts.first.content_transfer_encoding.to_s #=> 'base64'
@mail.attachments.first.mime_type #=> 'image/jpeg'
@mail.attachments.first.filename #=> 'file.jpg'
@mail.attachments.first.decoded == File.read('/path/to/file.jpg') #=> true
```

Or You can pass in file_data and give it a
filename, again, mail
will try and guess the mime_type for you.

```
@mail = Mail.new
@mail.attachments['myfile.pdf'] = File.read('path/to/myfile.pdf')
@mail.parts.first.attachment? #=> true
@mail.attachments.first.mime_type #=> 'application/pdf'
@mail.attachments.first.decoded == File.read('path/to/myfile.pdf') #=> true
```

You can also override the guessed MIME media type if you really know better
than mail (this should be rarely needed)

```

@mail = Mail.new
file_data = File.read('path/to/myfile.pdf')
@mail.attachments['myfile.pdf'] = { :mime_type => 'application/x-pdf',
                                     :content => File.read('path/to/myfile.pdf') }
@mail.parts.first.mime_type #=> 'application/x-pdf'

```

Of course... Mail will round trip an attachment as well

```

@mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'Here is the attachment
you wanted'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>Funky Title</h1><p>Here is the attachment you wanted</p>'
  end
  add_file 'path/to/myfile.pdf'
end

```

```
@round_tripped_mail = Mail.new(@mail.encoded)
```

```

@round_tripped_mail.attachments.length #=> 1
@round_tripped_mail.attachments.first.filename #=> 'myfile.pdf'

```

== Using Mail with Testing or Spec'ing Libraries

If mail is part of your system, you'll need a way to test it without actually sending emails, the TestMailer can do this for you.

```

require 'mail'
=> true
Mail.defaults do
  delivery_method :test
end
=> #<Mail::Configuration:0x19345a8 @delivery_method=Mail::TestMailer>
Mail::TestMailer.deliveries
=> []
Mail.deliver do
  to 'mikel@me.com'
  from 'you@you.com'
  subject 'testing'
  body 'hello'
end

```

```
=> #<Mail::Message:0x19284ec ...  
Mail::TestMailer.deliveries.length  
=> 1  
Mail::TestMailer.deliveries.first  
=> #<Mail::Message:0x19284ec ...
```

```
Mail::TestMailer.deliveries.clear  
=> []
```

== Excerpts from TREC Spam Corpus 2005

The spec fixture files in `spec/fixtures/emails/from_trec_2005` are from the 2005 TREC Public Spam Corpus. They remain copyrighted under the terms of that project and license agreement. They are used in this project to verify and describe the development of this email parser implementation.

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Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/README.rdoc

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

Network Working Group	N. Freed
Request for Comments: 2048	Innosoft
BCP: 13	J. Klensin
Obsoletes: 1521, 1522, 1590	MCI
Category: Best Current Practice	J. Postel
	ISI
	November 1996

Multipurpose Internet Mail Extensions
(MIME) Part Four:
Registration Procedures

Status of this Memo

This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements. Distribution of this memo is unlimited.

Abstract

STD 11, RFC 822, defines a message representation protocol specifying considerable detail about US-ASCII message headers, and leaves the message content, or message body, as flat US-ASCII text. This set of documents, collectively called the Multipurpose Internet Mail Extensions, or MIME, redefines the format of messages to allow for

- (1) textual message bodies in character sets other than US-ASCII,
- (2) an extensible set of different formats for non-textual message bodies,
- (3) multi-part message bodies, and
- (4) textual header information in character sets other than US-ASCII.

These documents are based on earlier work documented in RFC 934, STD 11, and RFC 1049, but extends and revises them. Because RFC 822 said so little about message bodies, these documents are largely orthogonal to (rather than a revision of) RFC 822.

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RFC 2048 MIME Registration
Procedures November 1996

This fourth document, RFC 2048, specifies various IANA registration procedures for the following MIME facilities:

- (1) media types,
- (2) external body access types,
- (3) content-transfer-encodings.

Registration of character sets for use in MIME is covered elsewhere and is no longer addressed by this document.

These documents are revisions of RFCs 1521 and 1522, which themselves were revisions of RFCs 1341 and 1342. An appendix in RFC 2049 describes differences and changes from previous versions.

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1. Introduction

Recent Internet protocols have been carefully designed to be easily extensible in certain areas. In particular, MIME [RFC 2045] is an open-ended framework and can accommodate additional object types, character sets, and access methods without any changes to the basic protocol. A registration process is needed, however, to ensure that the set of such values is developed in an orderly, well-specified, and public manner.

This document defines registration procedures which use the Internet Assigned Numbers Authority (IANA) as a central registry for such values.

Historical Note: The registration process for media types was initially defined in the context of the asynchronous Internet mail environment. In this mail environment there is a need to limit the number of possible media types to increase the likelihood of interoperability when the capabilities of the remote mail system are not known. As media types are used in new environments, where the proliferation of media types is not a hindrance to interoperability, the original procedure was excessively restrictive and had to be generalized.

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2. Media Type Registration

Registration of a new media type or types starts with the construction of a registration proposal. Registration may occur in several different registration trees, which have different requirements as discussed below. In general, the new registration proposal is circulated and reviewed in a fashion appropriate to the tree involved. The media type is then registered if the proposal is

acceptable. The following sections describe the requirements and procedures used for each of the different registration trees.

2.1. Registration Trees and Subtype Names

In order to increase the efficiency and flexibility of the registration process, different structures of subtype names may be registered to accommodate the different natural requirements for, e.g., a subtype that will be recommended for wide support and implementation by the Internet Community or a subtype that is used to move files associated with proprietary software. The following subsections define registration "trees", distinguished by the use of faceted names (e.g., names of the form "tree.subtree...type"). Note that some media types defined prior to this document do not conform to the naming conventions described below. See Appendix A for a discussion of them.

2.1.1. IETF Tree

The IETF tree is intended for types of general interest to the Internet Community. Registration in the IETF tree requires approval by the IESG and publication of the media type registration as some form of RFC.

Media types in the IETF tree are normally denoted by names that are not explicitly faceted, i.e., do not contain period ("."), full stop) characters.

The "owner" of a media type registration in the IETF tree is assumed to be the IETF itself. Modification or alteration of the specification requires the same level of processing (e.g. standards track) required for the initial registration.

2.1.2. Vendor Tree

The vendor tree is used for media types associated with commercially available products. "Vendor" or "producer" are construed as equivalent and very broadly in this context.

A registration may be placed in the vendor tree by anyone who has need to interchange files associated with the particular product.

However, the registration formally belongs to the vendor or organization producing the software or file format. Changes to the specification will be made at their request, as discussed in subsequent sections.

Registrations in the vendor tree will be distinguished by the leading facet "vnd.". That may be followed, at the discretion of the registration, by either a media type name from a well-known producer (e.g., "vnd.mudpie") or by an IANA-approved designation of the producer's name which is then followed by a media type or product designation (e.g., vnd.bigcompany.funnypictures).

While public exposure and review of media types to be registered in the vendor tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the vendor tree may be submitted directly to the IANA.

2.1.3. Personal or Vanity Tree

Registrations for media types created experimentally or as part of products that are not distributed commercially may be registered in the personal or vanity tree. The registrations are distinguished by the leading facet "prs.".

The owner of "personal" registrations and associated specifications is the person or entity making the registration, or one to whom responsibility has been transferred as described below.

While public exposure and review of media types to be registered in the personal tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the personal tree may be submitted directly to the IANA.

2.1.4. Special 'x.' Tree

For convenience and symmetry with this registration scheme, media type names with "x." as the first facet may be used for the same purposes for which names starting in "x-" are normally used. These types are unregistered, experimental, and should be used only with the active agreement of the parties exchanging them.

However, with the simplified registration procedures described above for vendor and personal trees, it should rarely, if ever, be necessary to use unregistered experimental types, and as such use of both "x-" and "x." forms is discouraged.

2.1.5. Additional Registration Trees

From time to time and as required by the community, the IANA may, with the advice and consent of the IESG, create new top-level registration trees. It is explicitly assumed that these trees may be created for external registration and management by well-known permanent bodies, such as scientific societies for media types specific to the sciences they cover. In general, the quality of review of specifications for one of these additional registration trees is expected to be equivalent to that which IETF would give to registrations in its own tree. Establishment of these new trees will be announced through RFC publication approved by the IESG.

2.2. Registration Requirements

Media type registration proposals are all expected to conform to various requirements laid out in the following sections. Note that requirement specifics sometimes vary depending on the registration tree, again as detailed in the following sections.

2.2.1. Functionality Requirement

Media types must function as an actual media format: Registration of things that are better thought of as a transfer encoding, as a character set, or as a collection of separate entities of another type, is not allowed. For example, although applications exist to decode the base64 transfer encoding [RFC 2045], base64 cannot be registered as a media type.

This requirement applies regardless of the registration tree involved.

2.2.2. Naming Requirements

All registered media types must be assigned MIME type and subtype names. The combination of these names then serves to uniquely identify the media type and the format of the subtype name identifies the registration tree.

The choice of top-level type name must take the nature of media type involved into account. For example, media normally used for representing still images should be a subtype of the image content type, whereas media capable of representing audio information belongs

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under the audio content type. See RFC 2046 for additional information on the basic set of top-level types and their characteristics.

New subtypes of top-level types must conform to the restrictions of the top-level type, if any. For example, all subtypes of the multipart content type must use the same encapsulation syntax.

In some cases a new media type may not "fit" under any currently defined top-level content type. Such cases are expected to be quite rare. However, if such a case arises a new top-level type can be defined to accommodate it. Such a definition must be done via standards-track RFC; no other mechanism can be used to define additional top-level content types.

These requirements apply regardless of the registration tree involved.

2.2.3. Parameter Requirements

Media types may elect to use one or more MIME content type parameters, or some parameters may be automatically made available to the media type by virtue of being a subtype of a content type that defines a set of parameters applicable to any of its subtypes. In either case, the names, values, and meanings of any parameters must be fully specified when a media type is registered in the IETF tree, and should be specified as completely as possible when media types are registered

in the vendor or personal trees.

New parameters must not be defined as a way to introduce new functionality in types registered in the IETF tree, although new parameters may be added to convey additional information that does not otherwise change existing functionality. An example of this would be a "revision" parameter to indicate a revision level of an external specification such as JPEG. Similar behavior is encouraged for media types registered in the vendor or personal trees but is not required.

2.2.4. Canonicalization and Format Requirements

All registered media types must employ a single, canonical data format, regardless of registration tree.

A precise and openly available specification of the format of each media type is required for all types registered in the IETF tree and must at a minimum be referenced by, if it isn't actually included in, the media type registration proposal itself.

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The specifications of format and processing particulars may or may not be publically available for media types registered in the vendor tree, and such registration proposals are explicitly permitted to include only a specification of which software and version produce or process such media types. References to or inclusion of format specifications in registration proposals is encouraged but not required.

Format specifications are still required for registration in the personal tree, but may be either published as RFCs or otherwise deposited with IANA. The deposited specifications will meet the same criteria as those required to register a well-known TCP port and, in particular, need not be made public.

Some media types involve the use of patented technology. The registration of media types involving patented technology is

specifically permitted. However, the restrictions set forth in RFC 1602 on the use of patented technology in standards-track protocols must be respected when the specification of a media type is part of a standards-track protocol.

2.2.5. Interchange Recommendations

Media types should, whenever possible, interoperate across as many systems and applications as possible. However, some media types will inevitably have problems interoperating across different platforms. Problems with different versions, byte ordering, and specifics of gateway handling can and will arise.

Universal interoperability of media types is not required, but known interoperability issues should be identified whenever possible. Publication of a media type does not require an exhaustive review of interoperability, and the interoperability considerations section is subject to continuing evaluation.

These recommendations apply regardless of the registration tree involved.

2.2.6.

Security Requirements

An analysis of security issues is required for for all types registered in the IETF Tree. (This is in accordance with the basic requirements for all IETF protocols.) A similar analysis for media types registered in the vendor or personal trees is encouraged but not required. However, regardless of what security analysis has or has not been done, all descriptions of security issues must be as accurate as possible regardless of registration tree. In particular, a statement that there are "no security issues associated with this

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type" must not be confused with "the security issues associates with this type have not been assessed".

There is absolutely no requirement that media types registered in any tree be secure or completely free from risks. Nevertheless, all known security risks must be identified in the registration of a media type, again regardless of registration tree.

The security considerations section of all registrations is subject to continuing evaluation and modification, and in particular may be extended by use of the "comments on media types" mechanism described in subsequent sections.

Some of the issues that should be looked at in a security analysis of a media type are:

- (1) Complex media types may include provisions for directives that institute actions on a recipient's files or other resources. In many cases provision is made for originators to specify arbitrary actions in an unrestricted fashion which may then have devastating effects. See the registration of the application/postscript media type in RFC 2046 for an example of such directives and how to handle them.
- (2) Complex media types may include provisions for directives that institute actions which, while not directly harmful to the recipient, may result in disclosure of information that either facilitates a subsequent attack or else violates a recipient's privacy in some way. Again, the registration of the application/postscript media type illustrates how such directives can be handled.
- (3) A media type might be targeted for applications that require some sort of security assurance but not provide the necessary security mechanisms themselves. For example, a media type could be defined for storage of confidential medical information which in turn requires an external confidentiality service.

2.2.7. Usage and Implementation Non-requirements

In the asynchronous mail environment, where information on the capabilities of the remote mail agent is frequently not available to the sender, maximum interoperability is attained by restricting the number of media types used to those "common" formats expected to be widely implemented. This was asserted in the past as a reason to

limit the number of possible media types and resulted in a registration process with a significant hurdle and delay for those registering media types.

However, the need for "common" media types does not require limiting the registration of new media types. If a limited set of media types is recommended for a particular application, that should be asserted by a separate applicability statement specific for the application and/or environment.

As such, universal support and implementation of a media type is NOT a requirement for registration. If, however, a media type is explicitly intended for limited use, this should be noted in its registration.

2.2.8. Publication Requirements

Proposals for media types registered in the IETF tree must be published as RFCs. RFC publication of vendor and personal media type proposals is encouraged but not required. In all cases IANA will retain copies of all media type proposals and "publish" them as part of the media types registration tree itself.

Other than in the IETF tree, the registration of a data type does not imply endorsement, approval, or recommendation by IANA or IETF or even certification that the specification is adequate. To become Internet Standards, protocol, data objects, or whatever must go through the IETF standards process. This is too difficult and too lengthy a process for the convenient registration of media types.

The IETF tree exists for media types that do require require a substantive review and approval process with the vendor and personal trees exist for those that do not. It is expected that applicability statements for particular applications will be published from time to time that recommend implementation of, and support for, media types that have proven particularly useful in those contexts.

As discussed above, registration of a top-level type requires standards-track processing and, hence, RFC publication.

2.2.9. Additional Information

Various sorts of optional information may be included in the specification of a media type if it is available:

- (1) Magic number(s) (length, octet values). Magic numbers are byte sequences that are always present and thus can be used to identify entities as being of a given media

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type.

- (2) File extension(s) commonly used on one or more platforms to indicate that some file containing a given type of media.
- (3) Macintosh File Type code(s) (4 octets) used to label files containing a given type of media.

Such information is often quite useful to implementors and if available should be provided.

2.3. Registration Procedure

The following procedure has been implemented by the IANA for review and approval of new media types. This is not a formal standards process, but rather an administrative procedure intended to allow community comment and sanity checking without excessive time delay. For registration in the IETF tree, the normal IETF processes should be followed, treating posting of an internet-draft and announcement on the ietf-types list (as described in the next subsection) as a first step. For registrations in the vendor or personal tree, the initial review step described below may be omitted and the type registered directly by submitting the template and an explanation directly to IANA (at iana@iana.org). However, authors of vendor or personal media type specifications are encouraged to seek community review and comment whenever that is feasible.

2.3.1. Present the Media Type to the Community for Review

Send a proposed media type registration to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed media and access types. Proposed media types are not formally registered and must not be used; the "x-" prefix specified in RFC 2045 can be used

until registration is complete.

The intent of the public posting is to solicit comments and feedback on the choice of type/subtype name, the unambiguity of the references with respect to versions and external profiling information, and a review of any interoperability or security considerations. The submitter may submit a revised registration, or withdraw the registration completely, at any time.

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2.3.2. IESG Approval

Media types registered in the IETF tree must be submitted to the IESG for approval.

2.3.3. IANA Registration

Provided that the media type meets the requirements for media types and has obtained approval that is necessary, the author may submit the registration request to the IANA, which will register the media type and make the media type registration available to the community.

2.4. Comments on Media Type Registrations

Comments on registered media types may be submitted by members of the community to IANA. These comments will be passed on to the "owner" of the media type if possible. Submitters of comments may request that their comment be attached to the media type registration itself, and if IANA approves of this the comment will be made accessible in conjunction with the type registration itself.

2.5.

Location of Registered Media Type List

Media type registrations will be posted in the anonymous FTP directory "<ftp://ftp.isi.edu/in-notes/iana/assignments/media-types/>"

and all registered media types will be listed in the periodically issued "Assigned Numbers" RFC [currently STD 2, RFC 1700]. The media type description and other supporting material may also be published as an Informational RFC by sending it to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

2.6. IANA Procedures for Registering Media Types

The IANA will only register media types in the IETF tree in response to a communication from the IESG stating that a given registration has been approved. Vendor and personal types will be registered by the IANA automatically and without any formal review as long as the following minimal conditions are met:

- (1) Media types must function as an actual media format.
In particular, character sets and transfer encodings may not be registered as media types.
- (2) All media types must have properly formed type and subtype names. All type names must be defined by a standards-track RFC. All subtype names must be unique, must conform to the MIME grammar for such names, and must contain the proper tree prefix.

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- (3) Types registered in the personal tree must either provide a format specification or a pointer to one.
- (4) Any security considerations given must not be obviously bogus. (It is neither possible nor necessary for the IANA to conduct a comprehensive security review of media type registrations. Nevertheless, IANA has the authority to identify obviously incompetent material and exclude it.)

2.7. Change Control

Once a media type has been published by IANA, the author may request a change to its definition. The descriptions of the different registration trees above designate the "owners" of each type of

registration. The change request follows the same procedure as the registration request:

- (1) Publish the revised template on the ietf-types list.
- (2) Leave at least two weeks for comments.
- (3) Publish using IANA after formal review if required.

Changes should be requested only when there are serious omission or errors in the published specification. When review is required, a change request may be denied if it renders entities that were valid under the previous definition invalid under the new definition.

The owner of a content type may pass responsibility for the content type to another person or agency by informing IANA and the ietf-types list; this can be done without discussion or review.

The IESG may reassign responsibility for a media type. The most common case of this will be to enable changes to be made to types where the author of the registration has died, moved out of contact or is otherwise unable to make changes that are important to the community.

Media type registrations may not be deleted; media types which are no longer believed appropriate for use can be declared OBSOLETE by a change to their "intended use" field; such media types will be clearly marked in the lists published by IANA.

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2.8. Registration Template

To: ietf-types@iana.org
Subject: Registration of MIME media type XXX/YYYY

MIME media type name:

MIME subtype name:

Required parameters:

Optional parameters:

Encoding considerations:

Security considerations:

Interoperability considerations:

Published specification:

Applications which use this media type:

Additional information:

Magic number(s):

File extension(s):

Macintosh File Type Code(s):

Person & email address to contact for further information:

Intended usage:

(One of COMMON, LIMITED USE or OBSOLETE)

Author/Change controller:

(Any other information that the author deems interesting may be added below this line.)

3. External Body Access Types

RFC 2046 defines the message/external-body media type, whereby a MIME entity can act as pointer to the actual body data in lieu of including the data directly in the entity body. Each message/external-body reference specifies an access type, which determines the mechanism used to retrieve the actual body data. RFC 2046 defines an initial set of access types, but allows for the

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registration of additional access types to accommodate new retrieval mechanisms.

3.1. Registration Requirements

New access type specifications must conform to a number of requirements as described below.

3.1.1. Naming Requirements

Each access type must have a unique name. This name appears in the access-type parameter in the message/external-body content-type header field, and must conform to MIME content type parameter syntax.

3.1.2. Mechanism Specification Requirements

All of the protocols, transports, and procedures used by a given access type must be described, either in the specification of the access type itself or in some other publicly available specification, in sufficient detail for the access type to be implemented by any competent implementor. Use of secret and/or proprietary methods in access types are expressly prohibited. The restrictions imposed by RFC 1602 on the standardization of patented algorithms must be respected as well.

3.1.3. Publication Requirements

All access types must be described by an RFC. The RFC may be informational rather than standards-track, although standard-track review and approval are encouraged for all access types.

3.1.4. Security Requirements

Any known security issues that arise from the use of the access type must be completely and fully described. It is not required that the access type be secure or that it be free from risks, but that the known risks be identified. Publication of a new access type does not require an exhaustive security review, and the security considerations section is subject to continuing evaluation. Additional security considerations should be addressed by publishing revised versions of the access type specification.

3.2. Registration Procedure

Registration of a new access type starts with the construction of a draft of an RFC.

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3.2.1. Present the Access Type to the Community

Send a proposed access type specification to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed access and media types. Proposed access types are not formally registered and must not be used.

The intent of the public posting is to solicit comments and feedback on the access type specification and a review of any security considerations.

3.2.2. Access Type Reviewer

When the two week period has passed, the access type reviewer, who is appointed by the IETF Applications Area Director, either forwards the request to iana@isi.edu, or rejects it because of significant objections raised on the list.

Decisions made by the reviewer must be posted to the ietf-types mailing list within 14 days. Decisions made by the reviewer may be appealed to the IESG.

3.2.3. IANA Registration

Provided that the access type has either passed review or has been successfully appealed to the IESG, the IANA will register the access type and make the registration available to the community. The specification of the access type must also be published as an RFC. Informational RFCs are published by sending them to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

3.3. Location of Registered Access Type List

Access type registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/access-types/" and all registered access types will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

3.4. IANA Procedures for Registering Access Types

The identity of the access type reviewer is communicated to the IANA by the IESG. The IANA then only acts in response to access type definitions that either are approved by the access type reviewer and forwarded by the reviewer to the IANA for registration, or in response to a communication from the IESG that an access type definition appeal has overturned the access type reviewer's ruling.

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4. Transfer Encodings

Transfer encodings are transformations applied to MIME media types after conversion to the media type's canonical form. Transfer encodings are used for several purposes:

- (1) Many transports, especially message transports, can only handle data consisting of relatively short lines of text. There can also be severe restrictions on what characters can be used in these lines of text -- some transports are restricted to a small subset of US-ASCII

and others cannot handle certain character sequences.

Transfer encodings are used to transform binary data into textual form that can survive such transports.

Examples of this sort of transfer encoding include the base64 and quoted-printable transfer encodings defined in RFC 2045.

- (2) Image, audio, video, and even application entities are sometimes quite large. Compression algorithms are often quite effective in reducing the size of large entities. Transfer encodings can be used to apply general-purpose non-lossy compression algorithms to MIME entities.

- (3) Transport encodings can be defined as a means of representing existing encoding formats in a MIME context.

IMPORTANT: The standardization of a large numbers of different transfer encodings is seen as a significant barrier to widespread interoperability and is expressly discouraged. Nevertheless, the following procedure has been defined to provide a means of defining additional transfer encodings, should standardization actually be justified.

4.1. Transfer Encoding Requirements

Transfer encoding specifications must conform to a number of requirements as described below.

4.1.1. Naming Requirements

Each transfer encoding must have a unique name. This name appears in the Content-Transfer-Encoding header field and must conform to the syntax of that field.

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4.1.2. Algorithm Specification Requirements

All of the algorithms used in a transfer encoding (e.g. conversion to printable form, compression) must be described in their entirety in the transfer encoding specification. Use of secret and/or proprietary algorithms in standardized transfer encodings are expressly prohibited. The restrictions imposed by RFC 1602 on the standardization of patented algorithms must be respected as well.

4.1.3. Input Domain Requirements

All transfer encodings must be applicable to an arbitrary sequence of octets of any length. Dependence on particular input forms is not allowed.

It should be noted that the 7bit and 8bit encodings do not conform to this requirement. Aside from the undesireability of having specialized encodings, the intent here is to forbid the addition of additional encodings along the lines of 7bit and 8bit.

4.1.4. Output Range Requirements

There is no requirement that a particular transfer encoding produce a particular form of encoded output. However, the output format for each transfer encoding must be fully and completely documented. In particular, each specification must clearly state whether the output format always lies within the confines of 7bit data, 8bit data, or is simply pure binary data.

4.1.5. Data Integrity and Generality Requirements

All transfer encodings must be fully invertible on any platform; it must be possible for anyone to recover the original data by performing the corresponding decoding operation. Note that this requirement effectively excludes all forms of lossy compression as well as all forms of encryption from use as a transfer encoding.

4.1.6. New Functionality Requirements

All transfer encodings must provide some sort of new functionality. Some degree of functionality overlap with previously defined transfer encodings is acceptable, but any new transfer encoding must also offer something no other transfer encoding provides.

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4.2. Transfer Encoding Definition Procedure

Definition of a new transfer encoding starts with the construction of a draft of a standards-track RFC.

The RFC must define the transfer encoding precisely and completely, and must also provide substantial

justification for defining and standardizing a new transfer encoding. This specification must then be presented to the IESG for consideration. The IESG can

- (1) reject the specification outright as being inappropriate for standardization,
- (2) approve the formation of an IETF working group to work on the specification in accordance with IETF procedures, or,
- (3) accept the specification as-is and put it directly on the standards track.

Transfer encoding specifications on the standards track follow normal IETF rules for standards track documents. A transfer encoding is considered to be defined and available for use once it is on the standards track.

4.3. IANA Procedures for Transfer Encoding Registration

There is no need for a special procedure for registering Transfer Encodings with the IANA.

All legitimate transfer encoding registrations must appear as a standards-track RFC, so it is the IESG's responsibility to notify the IANA when a new transfer encoding has been approved.

4.4. Location of Registered Transfer Encodings List

Transfer encoding registrations will be posted in the anonymous FTP directory "<ftp://ftp.isi.edu/in-notes/iana/assignments/transfer-encodings/>" and all registered transfer encodings will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

5. Authors' Addresses

For more information, the authors of this document are best contacted via Internet mail:

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Appendix A -- Grandfathered Media Types

A number of media types, registered prior to 1996, would, if registered under the guidelines in this document, be placed into either the vendor or personal trees. Reregistration of those types to reflect the appropriate trees is encouraged, but not required. Ownership and change control principles outlined in this document apply to those types as if they had been registered in the trees described above.

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Found in path(s):

* /mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2048 Multipurpose Internet Mail
Extensions (4).txt

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

Network Working Group E. Levinson
Request for Comments: 2387 August 1998
Obsoletes: 2112
Category: Standards Track

The MIME Multipart/Related Content-type

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

The Multipart/Related content-type provides a common mechanism for representing objects that are aggregates of related MIME body parts.

This document defines the Multipart/Related content-type and provides examples of its use.

1. Introduction

Several applications of MIME, including MIME-PEM, and MIME-Macintosh and other proposals, require multiple body parts that make sense only in the aggregate. The present approach to these compound objects has been to define specific multipart subtypes for each new object. In keeping with the MIME philosophy of having one mechanism to achieve the same goal for different purposes, this document describes a single mechanism for such aggregate or compound objects.

The Multipart/Related content-type addresses the MIME representation of compound objects. The object is categorized by a "type" parameter. Additional parameters are provided to indicate a specific starting body part or root and auxiliary information which may be required when unpacking or processing the object.

Multipart/Related MIME entities may contain Content-Disposition headers that provide suggestions for the storage and display of a body part. Multipart/Related processing takes precedence over Content-Disposition; the interaction between them is discussed in section 4.

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Responsibility for the display or processing of a Multipart/Related's constituent entities rests with the application that handles the compound object.

2. Multipart/Related Registration Information

The following form is copied from RFC 1590, Appendix A.

To: IANA@isi.edu

Subject: Registration of new Media Type content-type/subtype

Media Type name: Multipart

Media subtype name: Related

Required parameters: Type, a media type/subtype.

Optional parameters: Start
 Start-info

Encoding considerations: Multipart content-types cannot have encodings.

Security considerations: Depends solely on the referenced type.

Published specification: RFC-REL (this document).

Person & email address to contact for further information:

Edward Levinson
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Metuchen, NJ 08840-1060
+1 908 494 1606
XIson@cnj.digex.net

3. Intended usage

The Multipart/Related media type is intended for compound objects consisting of several inter-related body parts. For a Multipart/Related object, proper display cannot be achieved by individually displaying the constituent body parts. The content-type of the Multipart/Related object is specified by the type parameter. The "start" parameter, if given, points, via a content-ID, to the body part that contains the object root. The default root is the first body part within the Multipart/Related body.

The relationships among the body parts of a compound object distinguishes it from other object types. These relationships are often represented by links internal to the object's components that

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reference the other components. Within a single operating environment the links are often file names, such links may be represented within a MIME message using content-IDs or the value of some other "Content-" headers.

3.1. The Type Parameter

The type parameter must be specified and its value is the MIME media

type of the "root" body part. It permits a MIME user agent to determine the content-type without reference to the enclosed body part. If the value of the type parameter and the root body part's content-type differ then the User Agent's behavior is undefined.

3.2. The Start Parameter

The start parameter, if given, is the content-ID of the compound object's "root". If not present the "root" is the first body part in the Multipart/Related entity. The "root" is the element the applications processes first.

3.3. The Start-Info Parameter

Additional information can be provided to an application by the start-info parameter. It contains either a string or points, via a content-ID, to another MIME entity in the message. A typical use might be to provide additional command line parameters or a MIME entity giving auxiliary information for processing the compound object.

Applications that use Multipart/Related must specify the interpretation of start-info. User Agents shall provide the parameter's value to the processing application. Processes can distinguish a start-info reference from a token or quoted-string by examining the first non-white-space character, "<" indicates a reference.

3.4. Syntax

```
related-param  := [ ";"
"start" "=" cid ]
                [ ";" "start-info" "="
                  ( cid-list / value ) ]
                [ ";" "type" "=" type "/" subtype ]
                ; order independent

cid-list      := cid cid-list

cid           := msg-id   ; c.f. [822]
```

value := token / quoted-string ; c.f. [MIME]
 ; value cannot begin with "<"

Note that the parameter values will usually require quoting. Msg-id contains the special characters "<", ">", "@", and perhaps other special characters. If msg-id contains quoted-strings, those quote marks must be escaped. Similarly, the type parameter contains the special character "/".

4. Handling Content-Disposition Headers

Content-Disposition Headers [DISP] suggest presentation styles for MIME body parts. [DISP] describes two presentation styles, called the disposition type, INLINE and ATTACHMENT. These, used within a multipart entity, allow the sender to suggest presentation information. [DISP] also provides for an optional storage (file) name. Content-Disposition headers could appear in one or more body parts contained within a Multipart/Related entity.

Using Content-Disposition headers in addition to Multipart/Related provides presentation information to User Agents that do not recognize Multipart/Related. They will treat the multipart as Multipart/Mixed and they may find the Content-Disposition information useful.

With Multipart/Related however, the application processing the compound object determines the presentation style for all the contained parts. In that context the Content-Disposition header information is redundant or even misleading. Hence, User Agents that understand Multipart/Related shall ignore the disposition type within a Multipart/Related body part.

It may be possible for a User Agent capable of handling both Multipart/Related and Content-Disposition headers to provide the invoked application the Content-Disposition header's optional filename parameter to the Multipart/Related. The use of that information will depend on the specific application and should be specified when describing the handling of the corresponding compound object. Such descriptions would be appropriate in an RFC registering that object's media type.

5. Examples

5.1 Application/X-FixedRecord

The X-FixedRecord content-type consists of one or more octet-streams and a list of the lengths of each record. The root, which lists the record lengths of each record within the streams. The record length

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list, type

Application/X-FixedRecord, consists of a set of INTEGERS in ASCII format, one per line. Each INTEGER gives the number of octets from the octet-stream body part that constitute the next "record".

The example below, uses a single data block.

```
Content-Type: Multipart/Related; boundary=example-1
  start="<950120.aaCC@XIson.com>";
  type="Application/X-FixedRecord"
  start-info="-o ps"
```

--example-1

```
Content-Type: Application/X-FixedRecord
Content-ID: <950120.aaCC@XIson.com>
```

25

10

34

10

25

21

26

10

--example-1

```
Content-Type: Application/octet-stream
Content-Description: The fixed length records
Content-Transfer-Encoding: base64
Content-ID: <950120.aaCB@XIson.com>
```

```
T2xkIE1hY0RvbmFsZCB0YWQgYSBmYXJtCkUgSS
BFIEkgTwpBbmQgb24gaGlzIGZhcm0gaGUgaGFk
IHNvbWUgZHVja3MKRSBJIEUgSSBPCLdpdGggYS
BxdWFjayBxdWFjayBoZXJLAphIHF1YWNRlHF1
YWNrIHRoZXJLApldmVyeSB3aGVyZSBhIHF1YW
```

NrIHF1YWNrCkUgSSBFIEkgTwo=

--example-1--

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5.2 Text/X-Okie

The Text/X-Okie is an invented markup language permitting the inclusion of images with text. A feature of this example is the inclusion of two additional body parts, both picture. They are referred to internally by the encapsulated document via each picture's body part content-ID. Usage of "cid:", as in this example, may be useful for a variety of compound objects. It is not, however, a part of the Multipart/Related specification.

```
Content-Type: Multipart/Related; boundary=example-2;
  start="<950118.AEBH@XIson.com>"
  type="Text/x-Okie"
```

--example-2

```
Content-Type: Text/x-Okie; charset=iso-8859-1;
  declaration="<950118.AEB0@XIson.com>"
Content-ID: <950118.AEBH@XIson.com>
Content-Description: Document
```

```
{ doc }
This picture was taken by an automatic camera mounted ...
{ image file=cid:950118.AECB@XIson.com }
{ para }
Now this is an enlargement of the area ...
{ image file=cid:950118.AFDH@XIson.com }
{/doc }
```

```
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AFDH@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture A
```

[encoded jpeg image]

```
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B
```

[encoded jpeg image]

```
--example-2--
```

5.3 Content-Disposition

In the above example each image body part could also have a Content-Disposition header. For example,

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```
--example-2
Content-Type:
image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B
Content-Disposition: INLINE
```

[encoded jpeg image]

```
--example-2--
```

User Agents that recognize Multipart/Related will ignore the Content-Disposition header's disposition type. Other User Agents will process the Multipart/Related as Multipart/Mixed and may make use of that header's information.

6. User Agent Requirements

User agents that do not recognize Multipart/Related shall, in

accordance with [MIME], treat the entire entity as Multipart/Mixed. MIME User Agents that do recognize Multipart/Related entities but are unable to process the given type should give the user the option of suppressing the entire Multipart/Related body part shall be.

Existing MIME-capable mail user agents (MUAs) handle the existing media types in a straightforward manner. For discrete media types (e.g. text, image, etc.) the body of the entity can be directly passed to a display process. Similarly the existing composite subtypes can be reduced to handling one or more discrete types. Handling Multipart/Related differs in that processing cannot be reduced to handling the individual entities.

The following sections discuss what information the processing application requires.

It is possible that an application specific "receiving agent" will manipulate the entities for display prior to invoking actual application process. Okie, above, is an example of this; it may need a receiving agent to parse the document and substitute local file names for the originator's file names. Other applications may just require a table showing the correspondence between the local file names and the originator's. The receiving agent takes responsibility for such processing.

6.1 Data Requirements

MIME-capable mail user agents (MUAs) are required to provide the application:

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- (a) the bodies of the MIME entities and the entity Content-* headers,
- (b) the parameters of the Multipart/Related Content-type header, and
- (c) the correspondence between each body's local file name, that body's header data, and, if present, the body part's content-ID.

6.2 Storing Multipart/Related Entities

The Multipart/Related media type will be used for objects that have internal linkages between the body parts. When the objects are stored the linkages may require processing by the application or its receiving agent.

6.3 Recursion

MIME is a recursive structure. Hence one must expect a Multipart/Related entity to contain other Multipart/Related entities. When a Multipart/Related entity is being processed for display or storage, any enclosed Multipart/Related entities shall be processed as though they were being stored.

6.4 Configuration Considerations

It is suggested that MUAs that use configuration mechanisms, see [CFG] for an example, refer to Multipart/Related as Multipart/Related/<type>, where <type> is the value of the "type" parameter.

7. Security Considerations

Security considerations relevant to Multipart/Related are identical to those of the underlying content-type.

8. Acknowledgments

This proposal is the result of conversations the author has had with many people. In particular, Harald A. Alvestrand, James Clark, Charles Goldfarb, Gary Houston, Ned Freed, Ray Moody, and Don Stinchfield, provided both encouragement and invaluable help. The author, however, take full responsibility for all errors contained in this document.

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10. Changes from previous draft (RFC 2112)

Corrected cid urls to conform to RFC 2111; the angle brackets were removed.

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1.648 go-tdigest 3.1.0+incompatible

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1.649 bigfft 0.0.0-20230129092748-24d4a6f8daec

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1.651 google-cloud-go-auth 0.7.2

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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```



```

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,

```

```

err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
    }
}

```

```

    _ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
}

```

```

resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

```

```

}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {

```

```
// TODO: Handle error.  
}  
// TODO: Use resp.  
_ = resp  
}
```

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

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission_GranteeType int32

const (

// The default value. This value is unused.

Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0

```

// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GranteeType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```

```

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {

```

```

return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"`
}

```

```

json:"grantee_type,omitempty"
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
    ProtoReflect() protoreflect.Message {
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
}

```



```

}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,

```

0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,

```

}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:

```

```

    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{ }
type x struct{ }
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

```

```

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                })
            })
        },
    }
}

```

```

    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```

type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn

```

```

Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

 // The internal transport-dependent client.

 internalClient internalLicensesClient

 // The call options for this service.

 CallOptions *LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c *LicensesClient) Close() error {

 return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {

 c.internalClient.setGoogleClientInfo(keyval...)

}

//

 Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

func (c *LicensesClient) Connection() *grpc.ClientConn {

 return c.internalClient.Connection()

```

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```



```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
    only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{

```

```

option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient
    = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

```

```

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
    url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {

```

```

    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()),
    "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,

```

opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and
    context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp);
        err != nil {
            return err
        }
    })
}

```

```

    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```



```

return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{ }
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{ }
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

```

```

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
}

```

```

it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return

```

```
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

1.652 otel-exporters-otlp-otlptrace-otlptracehttp 1.28.0

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1.653 google-cloud-go-iam 1.1.10

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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &compute.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }

```

```

op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

```

```

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

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

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {

```



```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```
_ = resp  
}
```

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

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission_GrantType int32

const (

// The default value. This value is unused.

Permission_GRANT_TYPE_UNSPECIFIED Permission_GrantType = 0

// Represents a user. When set, you must provide email_address for the user.

Permission_USER Permission_GrantType = 1

```

// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```



```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,

```

0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
    file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            }
        }
    }
}

```

```

case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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//
// https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

```

```

"bytes"
"context"
"fmt"
"io"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

```

```

var newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
},

```



```

    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
GetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```
type internalLicensesClient interface {
```

```
    Close() error
```

```
    setGoogleClientInfo(...string)
```

```
    Connection() *grpc.ClientConn
```

```
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```

Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

 // The internal transport-dependent client.

 internalClient internalLicensesClient

 // The call options for this service.

 CallOptions *LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c *LicensesClient) Close() error {

 return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {

 c.internalClient.setGoogleClientInfo(keyval...)

}

//

 Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

func (c *LicensesClient) Connection() *grpc.ClientConn {

 return c.internalClient.Connection()

}

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```

intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient
= nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
        url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &compute.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err

```

```

    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf,
err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {


```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }
}

```

```

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

```

```
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
```

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {  
    it := &LicenseIterator{ }
```

```
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
```

```
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
```

```
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
```

```
        resp := &computepb.LicensesListResponse{ }
```

```
        if pageToken != "" {
```

```
            req.PageToken = proto.String(pageToken)
```

```
        }
```

```
        if pageSize > math.MaxInt32 {
```

```
            req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
        } else if pageSize != 0 {
```

```
            req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
        }
```

```
        baseUrl, err := url.Parse(c.endpoint)
```

```
        if err != nil {
```

```
            return nil, "", err
```

```
        }
```

```
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
        params := url.Values{ }
```

```
        if req != nil && req.Filter != nil {
```

```
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
        }
```

```
        if req != nil && req.MaxResults != nil {
```

```
            params.Add("maxResults",
```

```
            fmt.Sprintf("%v", req.GetMaxResults()))
```

```
        }
```

```
        if req != nil && req.OrderBy != nil {
```

```
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
        }
```

```
        if req != nil && req.PageToken != nil {
```

```
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
        }
```

```
        if req != nil && req.ReturnPartialSuccess != nil {
```

```
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
```

```
        }
```

```
        baseUrl.RawQuery = params.Encode()
```

```

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
}

```

```

    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err

```

```

    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

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

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return

```



```
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

1.654 contrib-propagators-b3 1.28.0

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1.655 google-cloud-go-longrunning 0.5.9

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

package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {

```



```

// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

func

```

```

ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
// generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.

```

```

_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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//

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2

```

```

// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

```

```

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

```

```

}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"

```

```

json:"email_address,omitempty"
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"
}

```

```

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

```

```

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {

```

```

if x != nil && x.GranteeType != nil {
    return *x.GranteeType
}
return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,
    0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,

```

```

0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =

```



```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            case 2:
                return &v.unknownFields
            default:
                return nil
            }
        }
    }
}

```

```

    }
    }
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{ }
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// you may not use this file except in compliance with the License.
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//
// https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"

```

```

"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/compute_pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

```

```

var newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
    },
}

```

```

GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
}

```

```

List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)

```

```

(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,

```

```

error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
    context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {

```

```

    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient
= nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```



```

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
        url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &compute.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {

```

```

    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

```

```

}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }

```

```

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a

list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults",
                fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from client and context metadata.
        hds := append(c.xGoogHeaders, "Content-Type", "application/json")
        headers := gax.BuildHeaders(ctx, hds...)
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return
err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```



```

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

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

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.

```

```

hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return
    nil
}, opts...)
if e != nil {
    return nil, e
}

```

```
return resp, nil
}
```

1.656 zstd-lib 1.5.6-r2

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1.665 pprof 0.0.0-20221203041831- ce31453925ec

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1.669 xmlquery 1.3.9

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1.671 libc 1.22.3

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1.672 pgproto3 2.1.1

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Metadata-Version: 1.1

Name: jsonpath-ng

Version: 1.4.3

Summary: A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators and providing clear AST for metaprogramming.

Home-page: <https://github.com/h2non/jsonpath-ng>

Author: Tomas Aparicio

Author-email: tomas@aparicio.me

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Description: Python JSONPath Next-Generation |[Build Status](#)| [PyPI](#)| [Coverage Status](#)|

=====

A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators, as defined in the original `JSONPath proposal`_.

This packages merges both `jsonpath-rw`_ and `jsonpath-rw-ext`_ and provides several AST API enhancements, such as the ability to update or removes nodes in the tree.

About

This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with CPython 2.6, 2.7 & 3.x.

This library differs from other JSONPath implementations in that it is a full *language* implementation, meaning the JSONPath expressions are first class objects, easy to analyze, transform, parse, print, and extend.

Quick Start

To install, use pip:

.. code:: bash

```
$ pip install --upgrade jsonpath-ng
```

Usage

Basic examples:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng import jsonpath, parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

```
# Extracting values is easy
```

```
>>> [match.value for match in jsonpath_expr.find({'foo': [{ 'baz': 1 }, { 'baz': 2 } ]})]
[1, 2]
```

```
# Matches remember where they came from
```

```
>>> [str(match.full_path) for match in jsonpath_expr.find({'foo': [{ 'baz': 1 }, { 'baz': 2 } ]})]
['foo.[0].baz', 'foo.[1].baz']
```

```
# And this can be useful for automatically providing ids for bits of data that do not have them (currently a
global switch)
```

```
>>> jsonpath.auto_id_field = 'id'
```

```
>>> [match.value for match in parse('foo[*].id').find({'foo': [{ 'id': 'bizzle' }, { 'baz': 3 } ]})]
['foo.bizzle', 'foo.[1]']
```

```
# A handy extension: named operators like `parent`
```

```
>>> [match.value for match in parse('a.*.b.`parent`.c').find({'a': { 'x': { 'b': 1, 'c': 'number one' }, 'y': { 'b': 2, 'c':
'number two' } } })]
['number two', 'number one']
```

```
# You can also build expressions directly quite easily
```

```
>>> from jsonpath_ng.jsonpath import Fields
```

```
>>> from jsonpath_ng.jsonpath import Slice
```

```
>>> jsonpath_expr_direct = Fields('foo').child(Slice('*')).child(Fields('baz')) # This is equivalent
```

Using the extended parser:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng.ext import parse

# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
>>> jsonpath_expr = parse('foo[*].baz')
```

JSONPath Syntax

The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular, some new operators such as ``|`` and ``where`` are available, and parentheses are used for grouping not for

callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

Syntax	Meaning	
``\$``	The root object	
``this``	The "current" object.	
``foo``	More generally, this syntax allows "named operators" to extend JSONPath in arbitrary ways	
field	Specified field(s), described below	
``[*field*]``	Same as *field*	
``[*idx*]``	Array access, described below (this is always unambiguous with field access)	

Jsonpath operators:

Syntax	Meaning	
jsonpath1 ``.`` *jsonpath2*	All nodes matched by *jsonpath2* starting at any node matching *jsonpath1*	

jsonpath ``[`` *whatever* ``]``	Same as *jsonpath*\ ``.``\ *whatever*
-----------------------------------	---------------------------------------

jsonpath1 ``..`` *jsonpath2*	All nodes matched by *jsonpath2* that descend from any node matching *jsonpath1*
--------------------------------	--

jsonpath1 ``where`` *jsonpath2*	Any nodes matching *jsonpath1* with a child matching *jsonpath2*
-----------------------------------	--

jsonpath1 `` `` *jsonpath2*	Any nodes matching the union of *jsonpath1* and *jsonpath2*
-------------------------------	---

Field specifiers (*field*):

Syntax	Meaning
``fieldname``	the field ``fieldname`` (from the "current" object)
``"fieldname"``	same as above, for allowing special characters in the fieldname
``'fieldname'``	ditto
``*``	any field
field ```,` ` *field*	either of the named fields (you can always build equivalent jsonpath using `` ``)

Array specifiers (*idx*):

Syntax	Meaning
``[`` *n* ``]``	array index (may be comma-separated list)
``[`` *start* ``?:`` *end* ``?]``	array slicing (note that *step* is unimplemented only due to lack of need thus far)
``[*]``	any array index

Programmatic JSONPath

If you are programming in Python

and would like a more robust way to

create JSONPath expressions that does not depend on a parser, it is very easy to do so directly, and here are some examples:

- ``Root()``
- ``Slice(start=0, end=None, step=None)``
- ``Fields('foo', 'bar')``
- ``Index(42)``
- ``Child(Fields('foo'), Index(42))``
- ``Where(Slice(), Fields('subfield'))``
- ``Descendants(jsonpath, jsonpath)``

Extras

- **Path data**: The result of ``JsonPath.find`` provide detailed context and path data so it is easy to traverse to parent objects, print full paths to pieces of data, and generate automatic ids.
- **Automatic Ids**: If you set ``jsonpath_ng.auto_id_field`` to a value other than None, then for any piece of data missing that field, it will be replaced by the JSONPath to it, giving automatic unique ids to any

piece of data. These ids will take into account any ids

already present as well.

- **Named operators**: Instead of using ``@`` to reference the currently object, this library uses ``this``. In general, any string contained in backquotes can be made to be a new operator, currently by extending the library.

Extensions

+-----+		
name	Example	
+=====+		
len	- \$.objects.`len`	
+-----+		
sub	- \$.field.`sub(/foo\\\\+(.*/), \\\\1)`	
+-----+		
split	- \$.field.`split(+, 2, -1)`	
	- \$.field.`split(sep, segment, maxsplit)`	
+-----+		
sorted	- \$.objects.`sorted`	
	- \$.objects[\\some_field]	
	- \$.objects[\\some_field/other_field]	

```

+-----+
| filter   | - $.objects[?(@some_field > 5)]      |
|          | - $.objects[?some_field = "foobar")]  |
|          | - $.objects[?some_field > 5 & other < 2)] |
+-----+
| arithmetic | - $.foo + "_" + $.bar                |
| (-+*/ )    | - $.foo * 12                        |
|            | - $.objects[*].cow + $.objects[*].cat |
+-----+

```

About arithmetic and string

Operations are done with python operators and allows types that python allows, and return [] if the operation can be done due to incompatible types.

When operators are used, a jsonpath must be fully defined otherwise jsonpath-rw-ext can't know if the expression is a string or a jsonpath field, in this case it will choose string as type.

Example with data::

```

{
  'cow': 'foo',
  'fish': 'bar'
}

| **cow + fish** returns **cowfish**
| **$.cow + $.fish** returns **foobar**
| **$.cow + "_" + $.fish** returns **foo_bar**
| **$.cow + "_" + fish** returns **foo_fish**

```

About arithmetic and list

Arithmetic can be used against two lists if they have the same size.

Example with data::

```

{'objects': [
  {'cow': 2, 'cat': 3},
  {'cow': 4, 'cat': 6}
]}

| **$.objects[*].cow + $.objects[*].cat** returns **[6, 9]**

```

More to explore

There are way too many JSONPath implementations out there to discuss. Some are robust, some are toy projects that still work fine, some are exercises. There will undoubtedly be many more. This one is made for use in released, maintained code, and in particular for programmatic access to the abstract syntax and extension. But JSONPath at its simplest just isn't that complicated, so you can probably use any of them successfully. Why not this one?

The original proposal, as far as I know:

- `JSONPath - XPath for JSON <<http://goessner.net/articles/JSONPath/>>` __ by Stefan Goessner.

Other examples

Loading json data from file

.. code:: python

```
import json
d = json.loads('{ "foo": [{ "baz": 1 }, { "baz": 2 }] }')
# or
with open('myfile.json') as f:
    d = json.load(f)
```

Special note about PLY and docstrings

The main parsing toolkit underlying this library, `PLY <<https://github.com/dabeaz/ply>>` __, does not work with docstrings removed. For example, ``PYTHONOPTIMIZE=2`` and ``python -OO`` will both cause a failure.

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- `Kenn Knowles <<https://github.com/kennknowles>>` __
(`@kennknowles <<https://twitter.com/KennKnowles>>` __)
- `Tomas Aparicio <<https://github.com/h2non>>`

with the help

of patches submitted by `these contributors <<https://github.com/kennknowles/python-jsonpath-ng/graphs/contributors>>` __.

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.. _`jsonpath-rw`: <https://github.com/kennknowles/python-jsonpath-rw>

.. _`jsonpath-rw-ext`: <https://pypi.python.org/pypi/jsonpath-rw-ext/>

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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

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Python JSONPath Next-Generation |Build Status| |PyPI| |Coverage Status|

=====

A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators, as defined in the original `JSONPath proposal`_.

This packages merges both `jsonpath-rw`_ and `jsonpath-rw-ext`_ and provides several AST API enhancements, such as the ability to update or removes nodes in the tree.

About

This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with CPython 2.6, 2.7 & 3.x.

This library differs from other JSONPath implementations in that it is a full *language* implementation, meaning the JSONPath expressions are first class objects, easy to analyze, transform, parse, print, and extend.

Quick Start

To install, use pip:

.. code:: bash

```
$ pip install --upgrade jsonpath-ng
```

Usage

Basic examples:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng import jsonpath, parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

```
# Extracting values is easy
```

```
>>> [match.value for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]
[1, 2]
```

```
# Matches remember where they came from
```

```
>>> [str(match.full_path) for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]
['foo.[0].baz', 'foo.[1].baz']
```

```
# And this can be useful for automatically providing ids for bits of data that do not have them (currently a global switch)
```

```
>>> jsonpath.auto_id_field = 'id'
```

```
>>> [match.value for match in parse('foo[*].id').find({'foo': [{'id': 'bizzle'}, {'baz': 3}]})]
['foo.bizzle', 'foo.[1]']
```

```
# A handy extension: named operators like `parent`
```

```
>>> [match.value for match in parse('a.*.b.`parent`.c').find({'a':
{'x': {'b': 1, 'c': 'number one'}, 'y': {'b': 2, 'c': 'number two'}}})]
['number two', 'number one']
```

```
# You can also build expressions directly quite easily
```

```
>>> from jsonpath_ng.jsonpath import Fields
```

```
>>> from jsonpath_ng.jsonpath import Slice
```

```
>>> jsonpath_expr_direct = Fields('foo').child(Slice('*')).child(Fields('baz')) # This is equivalent
```

Using the extended parser:

.. code:: python

```
$ python
```

```
>>> from jsonpath_ng.ext import parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

JSONPath Syntax

The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular, some new operators such as ``|`` and ``where`` are available, and parentheses are used for grouping not for callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

Syntax	Meaning	
``\$``	The root object	
``this``	The "current" object.	
``foo``	More generally, this syntax allows "named operators" to extend JSONPath in arbitrary ways	
field	Specified field(s), described below	
``[*field*]``	Same as *field*	
``[*idx*]``	Array access, described below (this is always unambiguous with field access)	

Jsonpath operators:

Syntax	Meaning	
jsonpath1 ``..`` *jsonpath2*	All nodes matched by *jsonpath2* starting at any node matching *jsonpath1*	
jsonpath ``[*whatever*]``	Same as *jsonpath* ``..`` *whatever*	
jsonpath1 ``..`` *jsonpath2*	All nodes matched by *jsonpath2* that descend from any node matching *jsonpath1*	

`*jsonpath1* ``where`` *jsonpath2*` | Any nodes matching `*jsonpath1*` with a child matching `*jsonpath2*`

|

+-----+

| `*jsonpath1* ``|`` *jsonpath2*` | Any nodes matching the union of `*jsonpath1*` and `*jsonpath2*`

|

+-----+

Field specifiers (`*field*`):

+-----+

| Syntax | Meaning |

+=====+

=====+

| ```fieldname``` | the field ```fieldname``` (from the "current" object) |

+-----+

| ```"fieldname"``` | same as above, for allowing special characters in the fieldname |

+-----+

| ```'fieldname'``` | ditto |

+-----+

| ```*``` | any field |

+-----+

| `*field* `` , `` *field*` | either of the named fields (you can always build equivalent jsonpath using ```|```) |

+-----+

Array

specifiers (`*idx*`):

+-----+

| Syntax | Meaning |

+=====+

=====+

| ```[`` *n* ``]``` | array index (may be comma-separated list) |

+-----+

| ```[`` *start* ``?`` *end* ``?]``` | array slicing (note that `*step*` is unimplemented only due to lack of need thus far) |

+-----+

| ```[*]``` | any array index |

+-----+

Programmatic JSONPath

If you are programming in Python and would like a more robust way to create JSONPath expressions that does not depend on a parser, it is very easy to do so directly, and here are some examples:

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Extras

- **Path data**: The result of ``JsonPath.find`` provide detailed context and path data so it is easy to traverse to parent objects, print full paths to pieces of data, and generate automatic ids.
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name	Example
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+-----+	
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+-----+	
split	
- \$.field.`split(+, 2, -1)`	
- \$.field.`split(sep, segment, maxsplit)`	
+-----+	
sorted	- \$.objects.`sorted`
- \$.objects[\\some_field]	
- \$.objects[\\some_field,/other_field]	
+-----+	
filter	- \$.objects[?(@some_field > 5)]
- \$.objects[?some_field = "foobar"]	
- \$.objects[?some_field > 5 & other < 2)]	
+-----+	

```
| arithmetic | - $.foo + "_" + $.bar |
| (-+*/ ) | - $.foo * 12 |
| | - $.objects[*].cow + $.objects[*].cat |
+-----+
```

About arithmetic and string

Operations

are done with python operators and allows types that python allows, and return [] if the operation can be done due to incompatible types.

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Arithmetic can be used against two lists if they have the same size.

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  {'cow': 4, 'cat': 6}
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(`@kennknowles <<https://twitter.com/KennKnowles>>`__)
- `Tomas Aparicio <<https://github.com/h2non>>`__

with the help of patches submitted by `these contributors <<https://github.com/kennknowles/python-jsonpath-ng/graphs/contributors>>`__.

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1.680 go-metro 0.0.0-20211217172704-adc40b04c140

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1.681 charset-normalizer 2.0.7

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1.682 shopify-sarama 1.37.2

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1.684 inotify 0.2.10

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1.685 pgtype 1.9.1

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1.688 sh 1.14.3

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1.689 genproto-googleapis-rpc 0.0.0- 20240814211410-ddb44dafa142

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1.690 modernc-mathutil 1.5.0

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1.691 pyparsing 3.1.4

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1.694 puddle 2.2.2

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1.695 golang-glog 1.2.2

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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Copyright (C) 2014 by Ignace Bogaert *

This software package is based on the paper

I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the $O(1)$ complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)`

or `init_by_array64(init_key, key_length)`.

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1.698 jsonpatch 5.6.0+incompatible

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1.699 otel-exporters-otlp-otlptrace-otlptracegrpc 1.27.0

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1.700 distro 1.8.0

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1.701 goleak 1.3.0

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1.702 protocol 0.10.0

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1.704 @grafana/flamegraph 10.3.10

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1.705 apiserver-network-proxy-konnectivity-client 0.28.0

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1.706 xorm-xorm 0.8.2

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1.707 strfmt 0.21.9

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1.708 google-cloud-go-kms 1.18.2

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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,

```

```

err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
    }
}

```



```

    _ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }

```

```

resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

```

```

}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {

```

```
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission_GranteeType int32

const (

// The default value. This value is unused.

Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0

```

// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GrantType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```

```

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {

```

```

return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"`
}

```

```

json:"grantee_type,omitempty"
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
    ProtoReflect() protoreflect.Message {
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
}

```

```

}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,

```

0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,

```

}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:

```



```

    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{ }
type x struct{ }
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

```

```

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                })
            })
        },
    }
}

```

```

    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  )),
},
SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```

type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn

```

```

Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

 // The internal transport-dependent client.

 internalClient internalLicensesClient

 // The call options for this service.

 CallOptions *LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c *LicensesClient) Close() error {

 return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {

 c.internalClient.setGoogleClientInfo(keyval...)

}

//

 Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

func (c *LicensesClient) Connection() *grpc.ClientConn {

 return c.internalClient.Connection()

```

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
    only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{

```

```

option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient
    = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

```

```

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
            url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {

```



```

    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()),
    "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,

```

opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and
    context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp);
        err != nil {
            return err
        }
    })
}

```

```

    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```

```

return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{ }
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{ }
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

```

```

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
}

```

```

it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {

```



```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return

```

```
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

1.709 @grafana/e2e-selectors 10.3.10

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1.710 google-cloud-go-storage 1.43.0

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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()

```



```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &compute.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }

```

```

op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

```

```

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {

```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```
_ = resp  
}
```

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// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission_GrantType int32

const (

// The default value. This value is unused.

Permission_GRANT_TYPE_UNSPECIFIED Permission_GrantType = 0

// Represents a user. When set, you must provide email_address for the user.

Permission_USER Permission_GrantType = 1

```

// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```



```

}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,

```

0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            }
        }
    }
}

```

```

case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
// https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

```

```

"bytes"
"context"
"fmt"
"io"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

```

```

var newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
},

```

```

    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
GetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```
type internalLicensesClient interface {
```

```
    Close() error
```

```
    setGoogleClientInfo(...string)
```

```
    Connection() *grpc.ClientConn
```

```
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```

Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

 // The internal transport-dependent client.

 internalClient internalLicensesClient

 // The call options for this service.

 CallOptions *LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c *LicensesClient) Close() error {

 return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {

 c.internalClient.setGoogleClientInfo(keyval...)

}

//

 Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

func (c *LicensesClient) Connection() *grpc.ClientConn {

 return c.internalClient.Connection()

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is


```

intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient
= nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
        url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unrm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
    })

```

```

    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf,
err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }
}

```

```

buf, err := io.ReadAll(httpResp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

```



```
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
```

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {  
    it := &LicenseIterator{ }
```

```
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
```

```
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
```

```
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
```

```
        resp := &computepb.LicensesListResponse{ }
```

```
        if pageToken != "" {
```

```
            req.PageToken = proto.String(pageToken)
```

```
        }
```

```
        if pageSize > math.MaxInt32 {
```

```
            req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
        } else if pageSize != 0 {
```

```
            req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
        }
```

```
        baseUrl, err := url.Parse(c.endpoint)
```

```
        if err != nil {
```

```
            return nil, "", err
```

```
        }
```

```
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
        params := url.Values{ }
```

```
        if req != nil && req.Filter != nil {
```

```
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
        }
```

```
        if req != nil && req.MaxResults != nil {
```

```
            params.Add("maxResults",
```

```
            fmt.Sprintf("%v", req.GetMaxResults()))
```

```
        }
```

```
        if req != nil && req.OrderBy != nil {
```

```
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
        }
```

```
        if req != nil && req.PageToken != nil {
```

```
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
        }
```

```
        if req != nil && req.ReturnPartialSuccess != nil {
```

```
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
```

```
        }
```

```
        baseUrl.RawQuery = params.Encode()
```

```

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
}

```

```

    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err

```

```

    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
// the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return

```

```
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

1.711 @grafana/e2e 10.3.10

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1.712 influxdb-client-go 2.12.3

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1.714 sentry-go 0.12.0

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title: Notice

description : "Message pour vous aider structurer votre contenu"

Le shortcode `*Notice*` permet d'afficher 4 types de message pour vous aider structurer votre contenu.

Note

{ { %/* notice note */% } }

Une notice de type `*note*`

{ { %/* /notice */% } }

s'affiche comme

{ { % notice note % } }

Une notice de type `*note*`

{ { % /notice % } }

Info

{ { %/* notice info */% } }

Une notice de type `*info*`

{ { %/* /notice */% } }

s'affiche comme

{ { % notice info % } }

Une notice de type `*info*`

{ { % /notice % } }

Tip

{{ %/* notice tip */% }}

Une notice de type *tip*

{{ %/* /notice */% }}

s'affiche comme

{{ % notice tip % }}

Une notice de type *tip*

{{ % /notice % }}

Warning

{{ %/* notice warning */% }}

Une notice de type *warning*

{{ %/* /notice */% }}

s'affiche comme

{{ % notice warning % }}

Une notice de type *warning*

{{ % /notice % }}

title: Notice

description : "Disclaimers to help you structure your page"

The notice shortcode shows 4 types of disclaimers to help you structure your page.

Note

{{ %/* notice note */% }}

A notice disclaimer

{{ %/* /notice */% }}

renders as

{{ % notice note % }}

A notice disclaimer

{{ % /notice % }}

Info

```
{{%/notice info %/}}  
An information disclaimer  
{{%/notice %/}}  
---
```

renders as

```
{{% notice info %}}  
An information disclaimer  
{{% /notice %}}
```

Tip

```
{{%/notice tip %/}}  
A tip disclaimer  
{{%/notice %/}}  
---
```

renders as

```
{{% notice tip %}}  
A tip disclaimer  
{{% /notice %}}
```

Warning

```
{{%/notice warning %/}}  
An warning disclaimer  
{{%/notice %/}}  
---
```

renders as

```
{{% notice warning %}}  
A warning disclaimer  
{{% /notice %}}
```

1.719 snowflake 0.3.0

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1.722 oapi-codegen 1.12.4

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1.723 regexp 0.0.0-20221123153739-

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1.724 @grafana/data 10.3.10

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1.725 contrib-propagators-jaeger 1.28.0

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package spec

// License information for the exposed API.
```

```
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL string `json:"url,omitempty"`
}
---
aliases:
- ../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
- ../enterprise/license/activate-aws-marketplace-license/
- ../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
to take advantage of Grafana Enterprise observability features
keywords:
- grafana
- aws
- marketplace
- enterprise
- license
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---
```

Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate

the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions]({{< relref "../license-restrictions" >}}) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](<https://portal.aws.amazon.com/billing/signup#/start>).

aliases:

- ../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
- ../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/

description: Activate a Grafana Enterprise license from AWS Marketplace on EKS

keywords:

- grafana
- enterprise
- aws
- marketplace
- eks
- activate

labels:

products:

- enterprise
- oss

title: Activate a Grafana Enterprise license from AWS Marketplace on EKS

weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](<https://aws.amazon.com/marketplace/pp/prodview-dlned4kzt5kx6>).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](<https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html>).

For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm

Chart](<https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme>).

1. Use ``kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>`` to update the container image to Grafana Enterprise version 8.3.0 or later.

For example, enter ``grafana/grafana-enterprise:8.3.3``.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases]([{< relref "../.../setup-grafana/installation/#supported-databases" > } }](#)).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use ``kubectl edit configmap grafana`` to edit ``grafana.ini`` add the following section to the configuration:

```
...  
[database]  
type  
= [database type]  
host = [database address and port]  
name = [database name]  
user = [database username]  
password = [database password]  
...
```

- **Option 2:** use ``kubectl edit deployment my-release`` to edit the pod ``env`` variables and add the following database variables:

```
...  
- name: GF_DATABASE_TYPE  
  value: [database type]  
- name: GF_DATABASE_HOST  
  value: [database address and port]
```

```
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
...
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability]({{ < relref "../.../setup-grafana/set-up-for-high-availability/" > }}).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

```
- "license-manager:CheckoutLicense"
- "license-manager:ListReceivedLicenses"
- "license-manager:GetLicenseUsage"
- "license-manager:CheckInLicense"
```

For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type]({{ < relref "../.../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type" > }}) configuration to `aws`:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
...
[enterprise]
license_validation_type=aws
...
```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

```
...
name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
value: aws
```

...

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command ``kubectl rollout restart deployment my-release``.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to ****Administration > General > Stats and license**** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana]({{< relref "../.../setup-grafana/start-restart-grafana/" >}}).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting]({https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html}).

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```

package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {  
    license := License{Name: "the name", URL: "the url"}  
    const licenseJSON = `{"name":"the name","url":"the url"}`  
    const licenseYAML = "name: the name\nurl: the url\n"
```

```
    assertSerializeJSON(t, license, licenseJSON)  
    assertParsesJSON(t, licenseJSON, license)  
}
```

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aliases:

- ../admin/view-server-settings/

- ../admin/view-server-stats/
- view-server/
- view-server/view-server-settings/
- view-server/view-server-stats/

description: How to view server settings in the Grafana UI

keywords:

- grafana
- configuration
- server
- settings

labels:

products:

- cloud
- enterprise

title: View server statistics and license

weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control]({{< relref "../roles-and-permissions/access-control" >}}) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration]({{< relref "../setup-grafana/configure-grafana#configuration-file-location" >}}) file and any environmental variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about administrative permissions, refer to [Roles and permissions]({{< relref "../roles-and-permissions#grafana-server-administrators" >}}).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration]({{< relref "../setup-grafana/configure-grafana#server" >}}).

View Grafana server stats

> Refer to [Role-based access control]({{< relref "../roles-and-permissions/access-control" >}}) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

>

Note: Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions]({{< relref "../roles-and-permissions#grafana-server-administrators" >}}).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations, then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1
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- grafana
- enterprise
- aws
- marketplace
- manage
- add
- remove
- users

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weight: 400

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1. Update your license.

1.

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1. Click ****Administration**** in the side navigation menu, ****General****, and then ****Stats and license****.

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A

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aliases:

- ../../enterprise/activate-aws-marketplace-license/activate-license-on-ecs/
- ../../enterprise/license/activate-aws-marketplace-license/activate-license-on-ecs/

description: Activate a Grafana Enterprise license from AWS Marketplace on ECS

keywords:

- grafana
- ecs
- enterprise
- aws
- marketplace
- activate

labels:

products:

- enterprise
- oss

title: Activate a Grafana Enterprise license from AWS Marketplace on ECS

weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](<https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6>).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html>).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

For example, enter ``grafana/grafana-enterprise:8.3.3``.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases]({{< relref "../.../setup-grafana/installation/#supported-databases" >}}).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the ``database`` parameters.

For a list of database parameters, refer to [Configuration]({{< relref "../.../setup-grafana/configure-grafana/#database" >}}).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.

Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

```
...
GF_DATABASE_TYPE=[database type]
GF_DATABASE_HOST=[database address and port]
GF_DATABASE_NAME=[database name]
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
...
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

- `"license-manager:CheckoutLicense"`
- `"license-manager:ListReceivedLicenses"`
- `"license-manager:GetLicenseUsage"`
- `"license-manager:CheckInLicense"`

For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicenseseamanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

For more information about creating a task role, refer to [IAM Roles for Tasks](<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html>).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html>).

1.

Within the new revision, perform the following steps:

a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

```
...
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
...
```

For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html>).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the

task definition that you created.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General**
> Stats and license to validate that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions]({{ < relref "../#grafana-enterprise-license-restrictions" > }}).

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aliases:

- ../../enterprise/activate-aws-marketplace-license/transfer-ge-license/
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description: Transfer your AWS Marketplace Grafana Enterprise license

keywords:

- grafana
- enterprise
- aws
- marketplace
- transfer
- move

labels:

products:

- enterprise
- oss

title: Transfer your AWS Marketplace Grafana Enterprise license

weight: 400

Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The

transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or Amazon EKS, remove the ``GF_ENTERPRISE_LICENSE_VALIDATION_TYPE`` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the ``aws`` `license_validation_type` value from the `grafana.ini` configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.

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1.730 contrib-samplers-jaegerremote 0.22.0

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1.731 eagle 0.1.0

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1.732 go-redis 9.0.2

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1.733 hcl 2.17.0

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1.734 kin-openapi 0.120.0

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```
import (  
    "context"  
    "encoding/json"  
    "errors"  
)
```

// License is specified by OpenAPI/Swagger standard version 3.

// See <https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object>

type License struct {

Extensions map[string]interface{} `json:"- " yaml:"- "`

Name string `json:"name" yaml:"name"` // Required

URL string `json:"url,omitempty" yaml:"url,omitempty"`

}

// MarshalJSON returns the JSON encoding of License.

```
func (license License) MarshalJSON() ([]byte, error) {  
    m := make(map[string]interface{}, 2+len(license.Extensions))  
    for k, v := range license.Extensions {  
        m[k] = v  
    }  
    m["name"] = license.Name  
    if x := license.URL; x != "" {  
        m["url"] = x  
    }  
    return json.Marshal(m)  
}
```

// UnmarshalJSON sets License to a copy of data.

```
func (license *License) UnmarshalJSON(data []byte) error {  
    type LicenseBis License  
    var x LicenseBis  
    if err := json.Unmarshal(data, &x); err != nil {  
        return err  
    }  
    _ = json.Unmarshal(data, &x.Extensions)  
    delete(x.Extensions,  
        "name")  
    delete(x.Extensions, "url")  
    *license = License(x)  
    return nil  
}
```

```

}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
    ctx = WithValidationOptions(ctx, opts...)

    if license.Name == "" {
        return errors.New("value of license name must be a non-empty string")
    }

    return validateExtensions(ctx, license.Extensions)
}
MIT License

```

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1.735 exporter-toolkit 0.10.1- 0.20230714054209-2f4150c63f97

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1.739 ansible-core 2.15.13

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bugfixes:

- BSD network facts - Do not assume column indexes, look for ``netmask`` and ``broadcast`` for determining the correct columns when parsing ``inet`` line (<https://github.com/ansible/ansible/issues/79117>)

minor_changes:

- collections - Add additional includes for REUSE license files (<https://github.com/ansible/ansible/issues/79368>)
- collections - Add additional ignores for commonly rejected file extensions

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Version 3, 29 June 2007

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minor_changes:

- galaxy - include ``license_file`` in the default manifest directives
(<https://github.com/ansible/ansible/pull-request/79420>)

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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Bit Twiddling Hacks

By Sean Eron Anderson
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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

/*

** BYTEmark (tm)

** BYTE Magazine's Native Mode benchmarks

** Rick Grehan, BYTE Magazine

**

** Create:

** Revision: 3/95

**

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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts\Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts\Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts\ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer\CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common\CoreCLRTestLibrary\CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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Content: <https://stackoverflow.com/a/769713>

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1.746 ssl-client 1.37.0-r12

1.746.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
buildid="$srcdir/${_pkgreal}-${pkgver}"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
```

8065ba65f4fea16dc9262728b3b6b85

BSD-Resource-1.2911.tar.gz

"

bzip2 applet in busybox is based on lightly-modified source
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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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<signature of Ty Coon>, 1 April 1989
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```
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
"

options="!check" # no tests

build() {
# some GNU autoconf options are ignored, but it works
```

```

./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr \
--sysconfdir=/etc \
--mandir=/usr/share/man \
--scoredir=/usr/share/$pkgname
make
}

package() {
make DESTDIR="$pkgdir" install
install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
    bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"
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```

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<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbc.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=8

pkgdesc="A library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0-or-later"

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart-lgpl/2.3/libart-lgpl-\$pkgver.tar.bz2"

"

builddir="\$srcdir"/libart-lgpl-\$pkgver

```
prepare() {  
    update_config_sub  
    default_prepare  
}
```

```
build() {  
    ./configure \  
        --build=$CBUILD \  
        --host=$CHOST \  
        --prefix=/usr  
    make  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
mini_sendmail - accept email on behalf of real sendmail

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Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>

Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>

pkgname=spdx-licenses

pkgver=3.26.0

pkgrel=0

pkgdesc="Various data formats for the SPDX License List"

url="https://spdx.org/"

arch="noarch"

options="!check" # no test suite

license="CC-BY-3.0"

source="license-list-data-\$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v\$pkgver.tar.gz"

builddir="\$srcdir/license-list-data-\$pkgver"

subpackages="\$pkgname-list"

_types="html json rdfa rdnt rdfturtle rdfxml template text"

for type in \$_types; do

subpackages="\$subpackages \$pkgname-\$type:_subpkg"

done

```

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname=$pkgver-r$pkgrel"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in "$builddir"/text/*.txt;
    do
        local license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a license-list-data-3.26.0.tar.gz
"

# Contributor: Patrycja Rosa <alpine@ptrcnll.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnll.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
"

builddir="$srcdir"
options="!check" # just headers

package() {
    mkdir -p "$pkgdir"
    install -Dm644 -t "$pkgdir"/usr/include/sys \
        cdefs.h queue.h tree.h
}

```

```
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"
```

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95

<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>

Contributor: Dhruvin Gandhi <contact@dhruvin>

Maintainer: Patrycja Rosa <alpine@ptrnull.me>

pkgname=py3-license-expression

_pkgname=license_expression

pkgver=30.4.1

pkgrel=0

pkgdesc="Library to parse, compare, simplify and normalize license expressions"

url="https://github.com/nexB/license-expression"

arch="noarch"

license="Apache-2.0"


```

depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgname}-${pkgver}"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
    license_expression-30.4.1.tar.gz
"

# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/${_pkgname}-${pkgver}

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=${pkgver}-r${pkgrel}" # Backwards compatibility

```

```

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
flake8-copyright-0.2.4.tar.gz
"

# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
    default_prepare

    cargo fetch --target="$CTARGET" --locked
}

build() {
    cargo auditable build --release --frozen
}

check() {
    cargo test --frozen
}

package() {
    install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00

```

1.747 sqlite 3.48.0-r0

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=====

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-----

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> ~~~

./configure && make

~~~

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```
> ~~~  
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~~~
```

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1.748 python3.12 3.12.3-1ubuntu0.4

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=====

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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 <https://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.

Release	Derived	Year	Owner	GPL-
---------	---------	------	-------	------

	from		compatible? (1)	
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF				yes

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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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1.753 mount 2.39.3-9ubuntu6.2

1.753.1 Available under license :

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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"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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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normally

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1.758 ca-certificates-bundle 20241121-r1

1.758.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnll.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnll.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
"
buildid="srcdir"
options="!check" # just headers

package() {
    mkdir -p "$pkgdir"
    install -Dm644 -t "$pkgdir"/usr/include/sys \
        cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart-lgpl/2.3/libart-lgpl-$pkgver.tar.bz2
"
```

```
builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {  
    update_config_sub  
    default_prepare  
}
```

```
build() {  
    ./configure \  
    --build=$CBUILD \  
    --host=$CHOST \  
    --prefix=/usr  
    make  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

```
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7  
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
```

1.759 selinux 3.5-2ubuntu2.1

1.759.1 Available under license :

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Version 2.1, February 1999

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of
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Most GNU software, including some libraries, is covered by the
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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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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,

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Any executables

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src/rmd160.c

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src/md2.c

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man/sha1.3

man/sha2.3

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man/mdX.3

src/helper.c

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src/md5.c

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1.766 libmd 1.1.0-2build1.1

1.766.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Files:

*

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Files:

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src/sha2.c

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Files:

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man/sha1.3

man/sha2.3

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src/helper.c

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1.767 alpine-baselayout-data 3.6.8-r1

1.767.1 Available under license :

```
# Automatically generated by apkbuidl-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/_pkgreal-$pkgver.tar.gz"

_buildddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```

build() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
  make && make test
}

package() {
  cd "$_builddir"
  make
  DESTDIR="$pkgdir" install || return 1
  find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

```

md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz"

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pkgname=py-flake8-copyright

_pkgname=flake8-copyright

pkgver=0.2.0

pkgrel=0

pkgdesc="Extension for flake8 which checks for copyrights"

url="https://github.com/savoirfairelinux/flake8-copyright"

arch="noarch"

```

license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {
    cd "$builddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e2417b586e543bfba12abce256b2023c8c4993eeb90 flake8-copyright-0.2.0.tar.gz"
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see <http://www.sqlite.org/copyright.html>

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OpenCL is a trademark of Apple Inc. used under license by Khronos.
mini_sendmail - accept email on behalf of real sendmail

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

```

url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

```

```
_builddir="$srcdir"/libart_lgpl-$pkgver
```

```

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}

```

```

build() {
    cd "$_builddir"
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
    || return 1
    make || return 1
}

```

```

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}

```

```

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

```

```

_buildddir="$srcdir/${_pkgreal-$pkgver}"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test || return 1
}

package() {
    cd "$_buildddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir"
    \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"

```

1.768 pcre 10.42-4ubuntu2.1

1.768.1 Available under license :

PCRE2 LICENCE

Please see the file LICENCE in the PCRE2 distribution for licensing details.

End

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: Philip.Hazel
Email domain: gmail.com

Retired from University of Cambridge Computing Service,
Cambridge,
England.

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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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STACK-LESS JUST-IN-TIME COMPILER

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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1.769 perl 5.38.2-3.2build2.1

1.769.1 Available under license :

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

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:25:31 ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
?S: shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
```

```

?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
: echo "Yup, it does."
else
echo "Hmm... '$startsh' does not guarantee sh startup..."
echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startsh.U

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

```

?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4 1994/06/20 06:50:26 ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 14:01:39 ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:01:09 ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:

```

?RCS: Revision
 3.0.1.1 1993/09/13 15:43:57 ram
 ?RCS: patch10: documents initials used for Wayne Davison's contributions
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:04:44 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?X:
 ?X: The purpose of this file is to supply the head of the Makefile created
 ?X: by metaconfig. For this reason it must be first in alphabetical order.
 ?X: The leading '+' in front of the unit name is a hint for metalint, since
 ?X: the use of that special unit name as a "made" unit is legitimate here.
 ?X:
 ?MAKE:+All: Finish
 ?X:
 ?X: Throughout the units, the following initials are used to identify comments:
 ?X:
 ?X: HMS: Harlan Stenn
 ?X: RAM: Raphael Manfredi
 ?X: WED: Wayne Davison (was WAD by mistake--RAM)
 ?X: ADO: Andy Dougherty
 ?X: JHI: Jarkko Hietaniemi
 ?X:
 ?X: Agreed, this is a weird place to document it, but I couldn't find a better
 ?X: place to do so. I've bet on the curiosity of users, who would probably
 ?X: want to know what's in this strangely-named file--RAM.

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/AAAAA.U

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

?RCS: \$Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic Licence,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
 ?RCS:
 ?RCS: \$Log: d_passwd.U,v \$
 ?RCS: Revision 3.0.1.2 1997/02/28 15:37:21 ram
 ?RCS: patch61: useless unit dropped.
 ?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:09:51 ram

?RCS: patch32: created by ADO

?RCS:

?X:

?X: Useless unit dropped.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_passwd.U

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

/*

* This file was produced by running the config_h.SH script, which

* gets its values from \$CONFIG_SH, which is generally produced by

* running Configure.

*

* Feel free to modify any of this as the need arises. Note, however,

* that running config_h.SH again will wipe out any changes you've made.

* For a more permanent change edit \$CONFIG_SH and rerun config_h.SH.

*

* \Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi \$

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_h.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \

Setprefixvar prefix siteprefix html3dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitehtml3dir="

?S:sitehtml3dir:

?S: This variable contains the name of the directory in which site-specific

?S: library html source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After

perl has been installed, users may install their own local

?S: library html pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitehtml3direxp="

?S:sitehtml3direxp:

?S: This variable is the same as the sitehtml3dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsitehtml3dir="

?S:installsitehtml3dir:

?S: This variable is really the same as sitehtml3direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: html3direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installsitehtml3dir

?LINT:set sitehtml3dir

?LINT:set sitehtml3direxp

: determine where add-on library html pages go

: There is no standard location, so try to copy the previously-selected

: directory structure for the core html pages.

case

"\$sitehtml3dir" in

) dflt=`echo "\$html3dir" | \$sed "s#^\$prefix#\$siteprefix#"` ;;

*) dflt=\$sitehtml3dir ;;

esac

case "\$dflt" in

"| ") dflt=none ;;

esac

fn=dn+~

rp='Pathname where the site-specific library html pages should be installed'

./getfile

prefixvar=sitehtml3dir

./setprefixvar

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml3dir.U

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

/* This file was produced by running the config_h.SH script, which

* gets its values from \$CONFIG_SH, which is generally produced by

* running Configure.

*

- * Feel free to modify any of this as the need arises. Note, however,
- * that running config_h.SH again will wipe out any changes you've made.
- * For a more permanent change edit \$CONFIG_SH and rerun config_h.SH.

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_h.U

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

```

/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$file
case "$xxx" in
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else

```

```

echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*)
xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp

```



```

;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely
GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in

```

```

echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c="";;
esac
cat
<<FOO

```

They are not compatible! You are probably running ksh on a non-USG system. I'll have to use \$echo instead of the builtin, since Bourne shell doesn't have echo built in and we may have to run some Bourne shell scripts. That means I'll have to use '\$n\$c' to suppress newlines now. Life is ridiculous.

```

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac

```

```

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO

```

The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package maintainer, the Perl community sends greetings to you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Loc.U

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

?RCS: \$Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi \$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: libc.U,v \$
?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram
?RCS: patch61: replaced .a with \$_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram
?RCS: patch10: added special handling for Apollo
systems (WAD)
?RCS:

```

?RCS: Revision 3.0.1.1 1993/08/27 14:40:03 ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames="
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
case "$libs" in
*-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
esac
;;
esac
case "$libs" in
") ;;
*) for thislib in $libs; do
case "$thislib" in
-lc|-lc_s)
: Handle C library specially below.
;;
-l*)
thislib=`echo $thislib | $sed -e 's/^-l//'`
if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then

```

```

:
elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $lib$thislib$_a X $xlibpth`; $test -f "$try"; then
:
else
  try="
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib" ;;
esac
done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
"environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
set /lib/libc.$so

```

```

for xxx in $libpth; do
    $test -r $1 || set $xxx/libc.$so
    : The messy sed command sorts on library version numbers.
    $test -r $1 || \
    set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
    tr ' ' $trnl | egrep -v \.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9]\)\)/1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'^
    eval set `set`
done
$test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
$test -r $1 || set $sysroot/lib/libsys_s$_a
;;
*)
?X: ensure the test below for the (shared) C library will fail
set blurfl
;;
esac
if $test -r "$1"; then
    echo "Your (shared) C library seems to be in $1."
    libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
    ?X:
    ?X: Apollo has its C library in /lib/clib AND /lib/libc
    ?X: not to mention its math library in /lib/syslib...
    ?X:
    echo "Your C library seems to be in both /lib/clib
    and /lib/libc."
    xxx=apollo
    libc='/lib/clib /lib/libc'
    if $test -r /lib/syslib; then
        echo "(Your math library is in /lib/syslib.)"
    ?X: Put syslib in libc -- not quite right, but won't hurt
    libc="$libc /lib/syslib"
    fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
    echo "Your C library seems to be in $libc, as you said before."
    ?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
    libc=$incpath/usr/lib/libc$_a;
    echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
    libc=/lib/libc$_a;
    echo "Your C library seems to be in $libc. You're normal."

```

```

else
if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
:
elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
libnames="$libnames "`./loc clib blurfl/dyick $libpth`
elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
:
elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
:
elif tans=`./loc
Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
:
else
tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
fi
if $test -r "$tans"; then
echo "Your C library seems to be in $tans, of all places."
libc=$tans
else
libc='blurfl'
fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
dflt=""
echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM
$sed 's/^/ /' libpath
cat <<EOM

```

None of these seems to contain your C library. I need to get its name...

```

EOM
fi
fn=f
rp='Where is your C library?'
./getfile
libc="$ans"

```

```

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
"Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
case $file in
*$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
*) $nm $nm_opt $file 2>/dev/null;;
esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output. (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^. *$xxx */p'";\
eval $xscan;\

```



```

$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__ */' -e 's/^([a-zA-Z_0-9]*)*.xtern.*\1/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__ */p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/^.* D __ */p' -e 's/^.* D //p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^([a-zA-Z_0-9]*)*.xtern.*text.*\1/p'";\
    eval $xscan;\
$contains '^fprintf$'
libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^([ ]*).*/\1/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*/p' -e 's/^.*|FUNC |WEAK .*/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__/' -e '/|Undef/d' -e '/|Proc/s/ .*/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| */p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([ ]*\)\$/\1/p'";\
    eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
?X: OS/2

```

```

nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*)=.*\1/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/.*\text n\ \ \ \.//p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: AIX nm output
elif com="$sed -n -e 's/^__.*// -e 's/[ \t]*D[ \t]*[0-9]*.*//p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
else
$nm -p $* 2>/dev/null >libc.tmp
$grep fprintf libc.tmp > libc.ptf
if com="$sed -n -e 's/^.* [ADTSIW] *_[_.]*/p' -e 's/^.* [ADTSIW] //p''";\
eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
nm_opt='-p'
eval $xrun
else
echo " "
echo "$nm didn't seem to work right. Trying $ar instead..." >&4
com="
if $ar t $libc > libc.tmp && \
$contains '^fprintf$' libc.tmp >/dev/null 2>&1
then
for thisname in $libnames $libc; do
$ar t $thisname >>libc.tmp
done
$sed -e "s/\$_o\$//" < libc.tmp > libc.list
echo
"Ok." >&4
elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
for thisname in $libnames $libc; do
$ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries. Use emximp which will extract exactly them.
emximp -o tmp.imp $thisname \
2>/dev/null && \
$sed -e 's/\([_a-zA-Z0-9]*\) .*$/\1/p' \
< tmp.imp >>libc.tmp
$rm -f tmp.imp
done
$sed -e "s/\$_o\$//" -e 's/^ \+// ' < libc.tmp > libc.list

```

```

echo "Ok." >&4
else
echo "$ar didn't seem to work right." >&4
echo "Maybe this is a Cray...trying bld instead..." >&4
if bld t $libc | \
$sed -e 's/.*\|/' -e "s/\|$_o:.*\|/" > libc.list &&
$test -s libc.list
then
for thisname in $libnames; do
bld t $libnames | \
$sed -e 's/.*\|/' -e "s/\|$_o:.*\|/" >>libc.list
$ar t $thisname >>libc.tmp
done
echo "Ok." >&4
else
echo
"That didn't work either. Giving up." >&4
exit 1
fi
fi
fi
fi
nm_extract="$com"
case "$PASE" in
define)
echo " "
echo "Since you are compiling for PASE, extracting more symbols from libc.a ..." >&4
dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
;;
*) if $test -f /lib/syscalls.exp; then
echo " "
echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
$sed -n 's/^\([^ ]*\)[ ]*syscall[0-9]*[ ]*$/1/p' \
/lib/syscalls.exp >>libc.list
fi
;;
esac
;;
esac
$rm -f libnames libpath

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libc.U

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

?RCS: \$Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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 ?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: etc.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:etc etcexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:etc:

?S: This variable holds the name of the directory in which the user wants
 ?S: to put "administrative" executable images for the package in question.
 ?S: It is most often a local directory such as /usr/local/etc. Programs
 ?S: relying on this variable must be prepared to deal with
 ~name
 ?S: substitutions.

?S:.

?S:etcexp:

?S: This is the same as the etc variable, but is filename expanded at
 ?S: configuration time, for convenient use in makefiles.

?S:.

: determine where administrative executables go
 case "\$etc" in
 ")
 dflt=`./loc ./local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
 *)
 dflt="\$etc"
 ;;
 esac
 fn=d~
 rp='Where should the administrative executables go?'
 ./getfile
 etc="\$ans"
 etcexp="\$ansexp"

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/etc.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
    Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n", $2, $3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
    <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq. This means you too, Jarkko.
?X:
$sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
config.sh config.sh UU/oldconfig.sh | \
$sort | $uniq -u >UU/oldsyms
set X `cat UU/oldsyms`
shift
case $# in
0) ;;

```

```

*)
cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
try to keep 'em...
EOM
echo ": Variables propagated from previous config.sh file." >>config.sh
for sym in `cat UU/oldsyms`; do
echo "  Propagating $hint variable ""$""$sym..."
eval 'tmp=""${sym}""'
echo "$tmp" | \
sed -e "s/'\"/\"'/g" -e "s/^$sym=/'" -e "s/$/'/" >>config.sh
done
;;
esac
fi

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X: ./warn <<EOM
?X: Problem with your C compiler: can't turn debugging on.
?X: EOM
?X:
?X: or:
?X:
?X: ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:

```

```
?X: ***
WARNING:
?X: *** Problem with your C compiler: can't turn debugging on.
?X: ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test $# -gt 0; then
  echo "\$@" >msg
else
  cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/***/' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.
```

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/startperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/privlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/multiarch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_portable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlpath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.
```

?RCS: \$Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: maildir.U,v \$

?RCS: Revision 3.0.1.1 1993/12/15 08:21:56 ram

?RCS: patch15: now also looks under /var/mail for BSD/386

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:maildir maildirexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:maildir:

?S: This variable contains the name of the directory in which mail is

?S: spooled. Programs using this variable must be prepared to deal with

?S: ~name

substitutions.

?S:.

?S:maildirexp:

?S: This is the same as the maildir variable, but is filename expanded

?S: at configuration time, for programs not willing to deal with it at

?S: run-time.

?S:.

: determine where mail is spooled

case "\$maildir" in

) dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;

*) dflt="\$maildir";;

esac

echo " "

fn=d~

rp='Where is yet-to-be-read mail spooled?'

./getfile

maildir="\$ans"

maildirexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/maildir.U

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

?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.


```

?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
    case
"$1" in
$define) echo "#include <$2>";;
    esac ;
    shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
    val="$define";
else
    val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Hasfield_t.U
```

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

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Chk_MANI.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:57:25 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/31 09:33:14 ram

?RCS: patch44: now lists Begin instead of Myinit in its dependencies

?RCS: patch44: leading comment now explains how this unit is included

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks the package by making sure
every file listed in MANIFEST

?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.

?X:

?MAKE:Chk_MANI: Begin c n rsrc

?MAKE: -pick wipe \$@ %<

?T:filelist ans tmppwd

?X: This check happens at metaconfig-time, so it's ok to hard-code the path.

```
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
echo "First let's make sure your kit is complete. Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
(split -l 50 2>/dev/null || split -50)
rm -f missing
tmppwd=`pwd`
for
filelist in x?; do
(cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
>/dev/null 2>>"$tmppwd/missing")
done
```

```
if test -s missing; then
cat missing >&4
cat >&4 <<'EOM'
```

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the distinct possibility that your kit is damaged, by typing 'y'es. If you do, don't blame me if something goes wrong. I advise you to type 'n'o and contact the author (<MAINTLOC>).

EOM

```
?X: Can't use $echo at this early stage
echo $n "Continue? [n] $c" >&4
read ans
case "$ans" in
y*)
echo "Continuing..." >&4
rm -f missing
;;
*)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
echo "ABORTING..." >&4
kill $$
;;
esac
else
echo "Looks good..."
fi
else
echo "There is no MANIFEST file. I hope your kit is complete !"
fi
rm -f missing x??
```

@end

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.
```

?RCS: \$Id: Compile.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

```

?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension. Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
    users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S: echo 'int main() { exit(0); }' > try.c
?S: set try
?S: if eval $compile; then
?S:   echo "success" # and do whatever . . .
?S: else
?S:   echo "failure" # and do whatever . . .
?S: fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S: set try -DTRY_THIS_FLAG
?S:..
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok. It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:..
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;

```

```

fi;
esac;
$cc
-o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:52 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
?X: Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'

```

```

PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
    set x `awk '{print $1}' < MANIFEST | grep \.SH$`
else
    echo "(Looking for .SH files under the source directory.)"
    set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
    shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
    if test ! -d "$name"; then
        create="$name $create";
        name=`echo $name | sed -e "s|^[^/]*$||"`;
        name=`echo $name | sed -e "s|(.*\)/.*|1|"`;
    else
        name="";
    fi;
done;
for file in $create; do
    mkdir $file;
done
'

for file in $*;
do
    case "$src" in
    ".")
        case "$file" in
        */*)
            dir=`expr X$file : 'X\(.*)/'`
            file=`expr X$file : 'X.*\^(.*)'`
            (cd "$dir" && . ./file)
            ;;
        *)
            . ./file
            ;;
        esac
    ;;
*)

```

?X:

?X: When running Configure remotely (\$src is not '.'), we cannot source

?X: the files directly, since that would wrongly cause the extraction

?X: where the source lie instead of withing the current directory. Therefore,

?X: we need to 'sh <file' then, which is okay since they will source the

?X: existing config.sh file. It's not possible to use:

?X: ../src/Configure -S -O -Dsomething

?X: unfortunately since no new config.sh with the -Dsomething override

?X: will be created before running the .SH files. A minor buglet.

?X:

?X: Note that we must create the directory hierarchy ourselves if it does

?X: not exist already, and that is done through a shell emulation of the

?X: 'mkdir -p' command. We don't want to use the \$installdir metaconfig

?X: symbol here since that would require too much to

be configured for

?X: this simple extraction task that may happen quickly with 'Configure -S'.

?X: -- RAM, 18/03/96

?X:

```
case "$file" in
```

```
*/*)
```

```
dir=`expr X$file : 'X\(.*/\)`
```

```
file=`expr X$file : 'X.*\(.*/\)`
```

```
(set x $dir; shift; eval $mkdir_p)
```

```
sh <"$src/$dir/$file"
```

```
::
```

```
*)
```

```
sh <"$src/$file"
```

```
::
```

```
esac
```

```
::
```

```
esac
```

```
done
```

```
if test -f "$src/config_h.SH"; then
```

```
if test ! -f config.h; then
```

```
: oops, they left it out of MANIFEST, probably, so do it anyway.
```

```
. "$src/config_h.SH"
```

```
fi
```

```
fi
```

```
EOS
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extract.U

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

?RCS: \$Id: package.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: package.U,v \$
?RCS: Revision 3.0.1.3 1994/10/29 16:27:21 ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2 1993/11/10 17:37:02 ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:11:10 ram
?RCS: patch10: added package, suitable for starting sentences
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:28 ram
?RCS: Baseline for dist 3.0
netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe \$@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:..
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:..
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X: as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo \$package | sed -e 's/^(.).*\1/^`
last=`echo \$package | sed -e 's/^(.*)\1/^`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case ``echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null``-``echo AbyZ | tr '[:upper:]' '[:lower:]' 2>/dev/null`` in
ABYZ-abyz) spackage=`echo \$first | tr '[:lower:]' '[:upper:]'`\$last;;
*) spackage=`echo \$first | tr '[a-z]' '[A-Z]'`\$last;;

esac

@end

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/package.U

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

?RCS: \$Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: rcs_branch.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:40 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:rcs_branch: Myread contains Loc

?MAKE: -pick add \$@ %<

?S:rcs_branch:

?S: This variable will hold "true" if rcs can take the -b<revision>

?S: option, which can make Life Easier on those folks who like to run

?S: rcsdiff manually.

?S:.

?T:xxx

: Tra la la la la

echo " "

echo "Checking to see if RCS understands the -b switch..." >&4

xxx=`./loc

rcs " \$pth`

case "\$xxx" in

")

rcs_branch=false

echo "Oh. You don't seem to have RCS here."

;;

*)

rcs > rcsbranch.out 2>&1

if \$contains 'b\[rev\]' rcsbranch.out >/dev/null 2>&1 ; then

rcs_branch=true

echo "Nice! Your RCS is spiffy!"

else

rcs_branch=false

echo "Well, at least you have RCS. You know, a newer version is available."

fi

```
::
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rcs_branch.U
```

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

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999, Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: vendorman1dir.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
```

```
Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
```

```
?MAKE: -pick add $@ %<
```

```
?Y:TOP
```

```
?S:vendorman1dir:
```

```
?S: This variable contains the name of the directory for man1
```

```
?S: pages. It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this directory.
```

```
?S: Vendors
```

```
who distribute perl may wish to place their own
```

```
?S: man1 pages in this directory with
```

```
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
```

```
?S: or equivalent. See INSTALL for details.
```

```
?S:.
```

```
?S:vendorman1direxp:
```

```
?S: This variable is the ~name expanded version of vendorman1dir, so that you
```

```
?S: may use it directly in Makefiles or shell scripts.
```

```
?S:.
```

```
?D:installvendorman1dir=
```

```
?S:installvendorman1dir:
```

```
?S: This variable is really the same as vendorman1direxp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
```

```
?S: should be used in makefiles.
```

```
?S:.
```

```
?LINT:change prefixvar
```

```
?LINT:set installvendorman1dir
```

```
: Set the vendorman1dir variables
```

```

case "$vendorprefix" in
") vendorman1dir="
vendorman1direxp="
;;
*) : determine where vendor-supplied manual pages go.
case "$vendorman1dir" in
") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
*) dflt=$vendorman1dir ;;
esac
case "$dflt" in
"|") dflt=none ;;
esac
fn=nd~+
rp='Pathname for
the vendor-supplied manual section 1 pages?'
./getfile
vendorman1dir="$ans"
vendorman1direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
./installprefix

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman1dir.U

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

?RCS: \$Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: Myinit.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: If you want to initialize any default values, copy this unit to your

?X: personal U directory and add the assignments to the end. This file

?X: is included after variables are initialized but before any old

?X: config.sh file is read in and before any Configure switch processing.

?X:

?MAKE:Myinit

libswanted: Init

?MAKE: -pick add \$@ %<

?S:libswanted:

?S: This variable holds a list of all the libraries we want to

?S: search. The order is chosen to pick up the c library

?S: ahead of ucb or bsd libraries for SVR4.

?S:.

?LINT:extern usevfork glibpth

?LINT:change usevfork glibpth

: List of libraries we want.

?X: Put crypt here, even though I should really fix d_crypt.U to look

?X: for it correctly, including possible shared library versions.

: If anyone needs extra -lxxx, put those in a hint file.

libswanted="cl pthread socket bind inet ndbm gdbm dbm db malloc dl ld"

libswanted="\$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"

: We probably want to search /usr/shlib before most other libraries.

: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.

glibpth=`echo " \$glibpth " | sed -e 's! /usr/shlib ! !'`

glibpth="/usr/shlib \$glibpth"

: Do not use vfork unless overridden by a hint file.

usevfork=false

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myinit.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Finish.U,v \$

?RCS: Revision 3.0.1.6 1995/02/15 14:09:30 ram

?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)

?RCS:

?RCS: Revision 3.0.1.5 1994/10/29 15:53:14 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 14:19:37 ram

?RCS: patch23: added blank lines around 'End of Configure'

```

?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:46:09 ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
Revision 3.0.1.2 1993/09/13 15:45:26 ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1 1993/08/30 08:55:59 ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script. It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
echo "Stopping at your request, leaving temporary files around."
exit 0
;;
cont)
;;
")
dflt="
nostick=true
$cat <<EOM

```

If you'd like to make any changes to the config.sh
file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

```

EOM
rp="Press return or use a shell escape to edit config.sh:"
. UU/myread
nostick="
case "$ans" in
") ;;

```

```

*) : in case they cannot read
sh 1>&4 -c "$ans";;
esac
;;
esac

```

: if this fails, just run all the .SH files by hand

```

. ./config.sh

```

```

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

```

```

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
dflt=y
case "$silent" in
true) ;;
*)
$cat <<EOM

```

Now you need to generate make dependencies by running "\$make depend".
You might prefer to run it in background: "\$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

```

EOM
;;
esac
rp="Run $make depend now?"
. UU/myread
case "$ans" in
y*)
$make depend
&& echo "Now you must run '$make'."
;;
*)
echo "You must run '$make depend' then '$make'."
;;
esac
elif test -f [Mm]akefile; then
echo " "
echo "Now you must run a $make."

```

```
else
  echo "Configure done."
fi
```

```
if $test -f Policy.sh; then
  $cat <<EOM
```

If you compile \$package on a different machine or from a different object directory, copy the Policy.sh file from this object directory to the new one before you run Configure -- this will help you with most of the policy defaults.

```
EOM
fi
if $test -f UU/config.msg; then
  echo "Hmm. I also noted the following information while running:"
  echo " "
  $cat UU/config.msg >&4
```

```
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU
```

: End of Configure

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0 1993/08/18 12:04:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

?X: This unit serves as the goal which forces make to choose all the units that
 ?X: ask questions. The \$W on the ?MAKE: line is the list of all symbols wanted.
 ?X: To force any unit to be included, copy this unit to your private U directory
 ?X: and add the name of the unit desired to the ?MAKE: dependency line.
 ?X:
 ?MAKE:End: \$W
 ?MAKE: -pick add \$@ %<
 ?LINT:use \$W
 : end of configuration
 questions
 echo " "
 echo "End of configuration questions."

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/End.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic Licence,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: libdbm.U,v \$
 ?RCS: Revision 3.0.1.1 1997/02/28 15:56:57 ram
 ?RCS: patch61: replaced .a with \$_a all over the place
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:08:58 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?MAKE:libdbm: test Loc libpth _a
 ?MAKE: -pick add \$@ %<
 ?S:libdbm:
 ?S: This variable contains the argument to pass to the loader in order
 ?S: to get the dbm library routines. If there is no dbm or ndbm
 ?S: library, it is null.
 ?S:.
 ?T:xxx
 :
 see if we should include -ldbm
 echo " "
 if \$test -r /usr/lib/libndbm\$_a || \$test -r /usr/local/lib/libndbm\$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'


```

elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
    echo "-ldbm found." >&4
    libdbm='-ldbm'
else
    xxx=`./loc libdbm$_a x $libpth`
    case "$xxx" in
    x)
        echo "No dbm library found." >&4
        libdbm=""
        ;;
    *)
        echo "DBM library found in $xxx." >&4
        libdbm="$xxx"
        ;;
    esac
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libdbm.U

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

?RCS: \$Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Whoa.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram

?RCS: patch61: whoa script now starts with leading "startsh"

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:19 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to warn the user in case a change into a variable

is noticed.

?X:

?X: To use this unit, \$was must hold the old value that has changed. Upon

?X: exit, the two variables \$td and \$tu are set to the correct value for

```

?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
    recommended)
case "$hintfile" in
    ") echo "The $hint value for \$$var on this machine was \"\$was\"!" >&4
;;
    *) echo "Hmm. Based on the hints in hints/$hintfile.sh, " >&4
    echo "the $hint value for \$$var on this machine was \"\$was\"!" >&4
;;
esac
;;
*) echo " "
echo "*** WHOA THERE!!! ***" >&4
echo " The $hint value for \$$var on this machine was
\"$was\"!" >&4
;;
esac
rp=" Keep the $hint value?"
./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Whoa.U

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

?RCS: \$Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: Prefixup.U,v \$
 ?RCS: Revision 3.0.1.1 1995/01/30 14:30:40 ram
 ?RCS: patch49: created
 ?RCS:
 ?X:
 ?X: Used as: "set dflt; eval \$prefixup" to set \$dflt to be \$prefix/dir
 ?X: instead of \$prefixexp/dir, in case portability was involved somehow
 ?X: and \$prefix uses ~name expansion.
 ?X:
 ?MAKE:Prefixup: prefix prefixexp
 ?MAKE: -pick add \$@ %<
 ?LINT:define prefixup
 ?S:prefixup:
 ?S: This shell variable is used internally by Configure to reset
 ?S: the leading
 installation prefix correctly when \$prefix uses
 ?S: ~name expansion.
 ?S: set dflt
 ?S: eval \$prefixup
 ?S: That will set \$dflt to \$prefix/dir if it was \$prefixexp/dir and
 ?S: \$prefix differs from \$prefixexp.
 ?S:.
 ?V:prefixup
 : set the prefixup variable, to restore leading tilda escape
 prefixup='case "\$prefixexp" in
 "\$prefix") ;;
 *) eval "\$1=\`echo \\\\$1 | sed \\'s,^\$prefixexp,\$prefix,\\\'\\\'";;
 esac'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Prefixup.U

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

?RCS: \$Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
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 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: Inhdr.U,v \$
 ?RCS: Revision 3.0.1.2 1995/05/12 12:01:31 ram

?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:55:01 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:01 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks wether a set of header files exists or not.

?X: If the first header is not
found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.

?X:

?X: To use it, say:

?X: set header i_header [header2 i_header2 ...]

?X: eval \$inhdr

?X:

?MAKE:Inhdr: test Findhdr Whoa

?MAKE: -pick add \$@ %<

?LINT:define inhdr

?V:inhdr

?S:inhdr:

?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S: set header i_header [header2 i_header2 ...]
?S: eval \$inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.

?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=\$define; tu=\$undef; yyy=\$@;
cont=true; xxf="echo \"<\$1> found.\" ">&4";
case \$# in 2) xxnf="echo \"<\$1> NOT found.\" ">&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" ">&4";;
esac;
case
\$# in 4) instead=instead;; *) instead="at last";; esac;
while \$test "\$scont"; do
xxx=`./findhdr \$1`
var=\$2; eval "was=\\$2";
if \$test "\$xxx" && \$test -r "\$xxx";
then eval \$xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
eval "case \"\\${\$var}\" in \$undef) . ./whoa; esac"; eval "\$var=\\${td}";

```

cont="";
else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
eval "case \"\${$var}\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
set $yyy; shift; shift; yyy=$@;
case $# in 0) cont="";;
2) xxf="echo \"but I found <\$1> $instead.\" >&4";
xxnf="echo \"and I did not find <\$1> either.\" >&4";;
*) xxf="echo \"but I found <\$1> instead.\" >&4";
xxnf="echo \"there is no <\$1>, ...\" >&4";;
esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\${$2}";
eval "case \"\${$var}\" in $define) . ./whoa; esac"; eval "$var=\$tu";
set $yyy; shift; shift; yyy=$@;
done'

```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: mansrc.U,v \$
 ?RCS: Revision 3.0.1.9 1997/02/28 16:12:03 ram
 ?RCS: patch61: don't ask for AFS when they choose to not install pages
 ?RCS:
 ?RCS: Revision 3.0.1.8 1995/09/25 09:16:58 ram
 ?RCS: patch59: unit is now forced to the top of Configure, if possible
 ?RCS:
 ?RCS: Revision 3.0.1.7 1995/02/15 14:15:31 ram
 ?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
 ?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
 ?RCS:
 ?RCS: Revision
 3.0.1.6 1995/01/30 14:39:34 ram
 ?RCS: patch49: can now handle installation prefix changes (from WED)
 ?RCS:
 ?RCS: Revision 3.0.1.5 1995/01/11 15:32:25 ram
 ?RCS: patch45: can now use Loc variables since path stripping is deferred
 ?RCS:
 ?RCS: Revision 3.0.1.4 1994/08/29 16:30:38 ram
 ?RCS: patch32: now uses installation prefix for default setting
 ?RCS:
 ?RCS: Revision 3.0.1.3 1994/05/06 15:11:10 ram
 ?RCS: patch23: added lint hint, assuring that nroff is used
 ?RCS:
 ?RCS: Revision 3.0.1.2 1994/01/24 14:14:39 ram
 ?RCS: patch16: now uses _nroff in case user asked for portability
 ?RCS:
 ?RCS: Revision 3.0.1.1 1993/09/13 16:09:31 ram
 ?RCS: patch10: allows for L1 man page extension (WAD)
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:09:14 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
 ?MAKE: -pick add \$@ %<
 ?Y:TOP
 ?S:mansrc:
 ?S: This variable
 contains the name of the directory in which manual
 ?S: source pages are to be put. It is the responsibility of the
 ?S: Makefile.SH to get the value of this into the proper command.
 ?S: You must be prepared to do the ~name expansion yourself.
 ?S:.

```

?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
pages available in source form.
EOM
case "$nroff" in
nroff)
echo "However, you don't have nroff, so they're probably useless to you."
case "$mansrc" in
") mansrc="none";;
esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/man1"
lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
lookpath="$lookpath /usr/man/man.L"
mansrc=`./loc . $prefixexp/man/man1 $lookpath`
if $test -d "$mansrc"; then
dflt="$mansrc"
else
dflt="$sysman"
fi
set dflt

```

```

eval $prefixup
;;
') dflt=none;;
*) dflt="$mansrc"
;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
  "X$mansrcexp" != "X$ansexp"; then
  installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
  ") mansrc=' '
  installmansrc="";;
esac
if $afs && $test "$mansrc"; then
  $cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installmansrc" in
  ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#`";;
  *) dflt="$installmansrc";;
esac
fn=de~
rp='Where will man pages be installed?'
. ./getfile
installmansrc="$ans"
else
  installmansrc="$mansrcexp"
fi

case "$mansrc" in
  ') manext='0';;
  *l) manext=l;;
  *n) manext=n;;
  *o) manext=l;;
  *p) manext=n;;
  *C) manext=C;;
  *L) manext=L;;

```


*L1) manext=L1;;

*) manext=1;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mansrc.U

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

?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: patchlevel.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:patchlevel: package baserev test rsrc

?MAKE: -pick add \$@ %<

?T:Revision

?S:patchlevel:

?S: The patchlevel level of this package.

?S: The value of patchlevel comes from the patchlevel.h file.

?S:.

: get the patchlevel

echo " "

echo "Getting the current patchlevel..." >&4

if \$test -r

\$src/patchlevel.h;then

patchlevel=`awk \

'/^#[]*define[]*PATCHLEVEL/ {print \$3}' \

< \$src/patchlevel.h`

else

patchlevel=0

fi

echo "(You have \$package \$baserev PL\$patchlevel.)"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/patchlevel.U

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

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
?X: file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[ ]+PERL_/ {printf "%s=%s\n", $2, $3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
<UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq. This means you too, Jarkko.
?X:
```

```
$sed -n 's/^\([a-zA-Z_0-9]*\)=.*/1/p' \
config.sh config.sh UU/oldconfig.sh
\
$sort | $uniq -u >UU/oldsyms
set X ` $cat UU/oldsyms `
shift
case $# in
0) ;;
*)
$cat <<EOM
```

Hmm...You had some extra variables I don't know about...I'll try to keep 'em...

EOM

```
echo ": Variables propagated from previous config.sh file." >>config.sh
for sym in ` $cat UU/oldsyms `; do
echo "  Propagating $hint variable ""$""$sym..."
eval `tmp=""${sym}""`
echo "$tmp" | \
sed -e "s/'/'\"/g" -e "s/^\$sym=/'" -e "s/\$/'/" >>config.sh
done
;;
esac
fi
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldsym.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full_ar: ar

?MAKE: -pick add \$@ %<

?S:full_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full_ar.

case "\$full_ar" in

") full_ar=\$ar ;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Loc_ar.U

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

```
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:08 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:38 ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedir.SH

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

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2 1994/05/06 14:29:36 ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:05:11 ram
?RCS: patch16: created
```

```

?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
    answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
    other)
        fn=`./filexp ~/.fullname`
        xxx=usg
        $test -f $fn && xxx=other
        ;;
*)
    xxx="$nametype"
    ;;
esac

case "$xxx" in
bsd)
    cf_name=`$passcat | grep "^$cf_by:" | \
sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:([^\:]*):.*\1/' \
-e 's/,.*//'^
    ;;
    usg)
    cf_name=`$passcat | grep "^$cf_by:" | \
sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:([^\:]*):.*\1/' \
-e 's/[^:]*-([^\:]*)(.*)\1/'^
    ;;
*)
    cf_name=`$cat $fn`
    ;;
esac
;;
*)
    cf_name="$NAME"
    ;;
esac

```

?X:

?X: In the original unit, Graham asked for the user name, in case the above

?X: code was unable to figure it out correctly. Since now cf_name has been

?X: made an internal variable only (i.e. it is not saved in config.sh), letting

?X: the user override the computed default each time would be a pain.

?X:

Therefore, I have decided to trust the above code to get it right, and for

?X: those rare cases where it will fail, too bad :-> --RAM.

?X:

echo " "

echo "Pleased to meet you, \$cf_name."

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_name.U

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

/*

* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

* You may redistribute only under the terms of the Artistic Licence,

* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: rename.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:42 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/rename.C

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

?RCS: \$Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Myread.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 15:05:39 ram

?RCS: patch61: myread script now starts with a "startsh"

?RCS: patch61: miscellaneous fixes

?RCS:

?RCS: Revision 3.0.1.5 1995/01/11 15:14:22 ram

?RCS: patch45: added & escape allowing user to turn on -d from the prompt

?RCS:

?RCS: Revision 3.0.1.4 1994/10/31 09:48:04 ram

?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U

?RCS:

?RCS: Revision 3.0.1.3 1994/10/29
15:56:20 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.2 1993/08/30 08:57:59 ram

?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:39:20 ram

?RCS: patch7: now sticks to the question when no default and empty answer

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to do a read. It allows for shell escapes, default assignment and

?X: parameter evaluation.

?X:

?X: To use this unit, \$rp and \$dflt must hold the question and the

?X: default answer. The question will be printed by the script itself.

?X: Neither \$rp nor \$dflt is altered by the script.

?X:

?X: The myread script will stick to the question if no default is proposed

?X: and the user answer is empty, which prevents mistakes. However, at the

?X: end of Configure, there is an exception

to this rule (Finish.U) where we

?X: set nostick to a non-empty value to allow the Return key to play its role!

?X:

?MAKE:Myread: Options startsh n c trnl

?MAKE: -pick add \$@ %<

?V:ans:dflt rp nostick

?F:./myread

?T:COLUMNS xxxm rp dflt answ aok myecho

?LINT:change fastread

?X: Some shells (Ultrix) do not understand \${COLUMNS:-80}, sigh!

: compute the number of columns on the terminal for proper question formatting

case "\$COLUMNS" in

") COLUMNS='80';;

esac

: set up the echo used in my read

?X:

?X: This variable is intended to be eval'ed. It will echo the two
 ?X: variables \$rp and \$dflt (provided this latter has a non null value).
 ?X: It is mainly used by the myread script to echo the questions.
 ?X:
 ?X: The \$n and \$c below are substituted before Loc does its silly echo check
 ?X: so don't put a \$ on the echo below so we get builtin, even if \$echo is
 ?X: pointing to /bin/echo.

```
?X:
myecho="case \"\$xxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
") echo $n \"[\$xxm] $c\";;
*)
if
test `echo \"\$rp [\$xxm] \" | wc -c` -ge $COLUMNS; then
  echo \"\$rp\" >&4
  echo $n \"[\$xxm] $c\" >&4
else
  echo $n \"\$rp [\$xxm] $c\" >&4
fi
;;
esac;;
esac"
```

: now set up to do reads with possible shell escape and default assignment

```
cat <<EOSC >myread
```

```
$startsh
```

?X:

?X: Save value of default -- do not alter original in case of eval

?X:

```
xxm=\$dflt
```

```
$myecho
```

?X:

?X: If there is no default, then stop, regardless of the value in fastread.

?X: In silent mode, no new-line is to be echoed if the question is empty,

?X: since this is used to wait for the "return" key.

?X:

```
ans='!
case \"\$fastread\" in
yes) case \"\$dflt\" in
") ;;
*) ans=";
case \"\$silent-\$rp\" in
true-) ;;
*) echo " " >&4;;
esac;;
esac;;
*) case \"\$silent\" in
```



```

true) case "$rp" in
  ") ans=";;
  esac;;
esac;;
esac
while expr "X$ans" : "X!" >/dev/null; do
  read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
  Variables must be evaluated now.
?X: Typing '$HOME' won't currently prevent from substitution -- use '$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
  set x $xxxm
  shift
  aok=""; eval "ans=\\\"$answ\\\" && aok=y
  case "$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
"!")
  sh 1>&4
  echo " "
  $myecho
  ;;
!*)
  set x `expr "X$ans" : "X!(.*)\$" \
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
"$ans")
  case "$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
  behaviour compatible with our general scheme.
?X:
  \&*)

```

```

set x `expr "X\$ans" : "X&\(.*)\$"`
shift
case "\$1" in
-d)
  fastread=yes
  echo "(OK, I'll run with -d after this question.)" >&4
  ;;
-*)
  echo "*** Sorry, \$1 not supported yet." >&4
  ;;
esac
$myecho
ans=!
;;
esac;;
*)
case "\$aok" in
y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=`echo $n "\$ans$c" | tr ' $trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
*)
  echo "*** Error -- try again."
  ans=!
  ;;
esac
$myecho
;;
esac
?X: Stick in myread if no default answer and nothing was answered
case "\$ans\$xxxm\$nostick" in
")
  ans=!
  $myecho
  ;;
esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myread.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasstruct string that is used internally

?X: by Configure to check if this system has a field for a

?X: particular struct (of if this system has a particular struct!)

?X:

?X: To use it, say something like:

?X: set d_statblocks stat i_sysstat sys/stat.h

?X: eval \$hasstruct

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/foo.h

?X: \$i_sysbar sys/bar.h

?X: \$i_syszot sys/zot.h

?X: \$i_zappa zappa.h"

?X: set d_statblocks stat \$hdrs

?X: eval \$hasstruct

?X:

?MAKE:Hasstruct: Setvar rm_try test Compile

?MAKE: -pick add \$@ %<

?T:varname struct

?V:hasstruct

: Define hasstruct macro for Configure internal use

hasstruct='varname=\$1; struct=\$2; shift;

shift;

while \$test \$# -ge 2; do

case "\$1" in

\$define) echo "#include <\$2>";;

esac ;

shift 2;

done > try.c;

echo "int main () { struct \$struct foo; }" >> try.c;

set try;

if eval \$compile; then

val="\$define";

else

val="\$undef";

fi;

set \$varname;

eval \$setvar;

\$rm_try'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasstruct.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: lib.U,v \$

?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram

?RCS: patch32: now uses installation prefix to set the default

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lib libexp: Getfile

Loc Oldconfig Prefixit Prefixup prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?S:lib:

?S: This variable holds the name of the directory in which the user wants

?S: to put public library files for the package in question. It is most

?S: often a local directory such as /usr/local/lib. Programs using this

?S: variable must be prepared to deal with filename expansion.

?S:.

?S:libexp:

?S: This variable is the same as the lib variable, but is filename expanded

?S: at configuration time, for convenient use in your makefiles.

?S:.

: determine where public libraries go

set lib lib

eval \$prefixit

case "\$lib" in

")

dflt=`./loc . ." \$prefixexp/lib /usr/local/lib /usr/lib /lib`

set dflt

```

eval $prefixup
;;
*) dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```

```

# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Head.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6 1997/02/28 15:05:39 ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5 1995/01/11 15:14:22 ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4 1994/10/31 09:48:04 ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3 1994/10/29 15:56:20 ram
?RCS: patch36: added ?F:

```

line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.2 1993/08/30 08:57:59 ram

?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:39:20 ram

?RCS: patch7: now sticks to the question when no default and empty answer

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to do a read. It allows for shell escapes, default assignment and

?X: parameter evaluation.

?X:

?X: To use this unit, \$rp and \$dflt must hold the question and the

?X: default answer. The question will be printed by the script itself.

?X: Neither \$rp nor \$dflt is altered by the script.

?X:

?X: The myread script will stick to the question if no default is proposed

?X: and the user answer is empty, which prevents mistakes. However, at the

?X: end of Configure, there is an exception to this rule (Finish.U) where we

?X: set

nostick to a non-empty value to allow the Return key to play its role!

?X:

?MAKE:Myread: Options startsh n c trnl

?MAKE: -pick add \$@ %<

?V:ans:dflt rp nostick

?F:./myread

?T:COLUMNS xxxm rp dflt answ aok myecho counter

?LINT:change fastread

?X: Some shells (Ultrix) do not understand \${COLUMNS:-80}, sigh!

: compute the number of columns on the terminal for proper question formatting

case "\$COLUMNS" in

") COLUMNS='80';;

esac

: set up the echo used in my read

?X:

?X: This variable is intended to be eval'ed. It will echo the two

?X: variables \$rp and \$dflt (provided this latter has a non null value).

?X: It is mainly used by the myread script to echo the questions.

?X:

?X: The \$n and \$c below are substituted before Loc does its silly echo check

?X: so don't put a \$ on the echo below so we get builtin, even if \$echo is

?X: pointing to /bin/echo.

?X:

```

myecho="case \"\$xxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
") echo $n \"[\$xxm] $c\";;
*)
if test `echo \"\$rp [\$xxm]
\" | wc -c` -ge $COLUMNS; then
echo \"\$rp\" >&4
echo $n \"[\$xxm] $c\" >&4
else
echo $n \"\$rp [\$xxm] $c\" >&4
fi
;;
esac;;
esac"

```

: now set up to do reads with possible shell escape and default assignment

```
cat <<EOSC >myread
```

```
$startsh
```

```
?X:
```

```
?X: Save value of default -- do not alter original in case of eval
```

```
?X:
```

```
xxm=\$dflt
```

```
$myecho
```

```
?X:
```

```
?X: If there is no default, then stop, regardless of the value in fastread.
```

```
?X: In silent mode, no new-line is to be echoed if the question is empty,
```

```
?X: since this is used to wait for the "return" key.
```

```
?X:
```

```
ans=''
```

```
counter=42
```

```
case \"\$fastread\" in
```

```
yes) case \"\$dflt\" in
```

```
) ;;
```

```
*) ans=";
```

```
case \"\$silent-\$rp\" in
```

```
true-) ;;
```

```
*) echo " " >&4;;
```

```
esac;;
```

```
esac;;
```

```
*) case \"\$silent\" in
```

```
true) case \"\$rp\" in
```

```
) ans=";;
```

```
esac;;
```

```
esac;;
```

```
esac
```

```
while expr "X\$ans" : "X!" >/dev/null; do
```

```
read answ
```

?X:

?X: Run 'eval' on the answer, in order to do variable substitution, in case

?X: the user types \$HOME or \$WHATEVER. Variables must be evaluated now.

?X: Typing '\$HOME' won't currently prevent from substitution -- use '\$HOME'

?X: The \$1 .. \$9 and \$*, as well as \$@, are available to refer to the

?X: default value.

?X:

```
set x \"$xxm
```

```
shift
```

```
aok="; eval "ans=\\\"$answ\\\" && aok=y
```

```
case \"$answ\" in
```

?X:

?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell

?X: (reported by Wayne Davison)

?X: We must handle the shell escapes before dealing with possible variable

?X: substitution, since the shell we're launching in that case will be able

?X: to do it as well as we can -- RAM, 15/03/96

?X

```
"!")
```

```
sh 1>&4
```

```
echo " "
```

```
$myecho
```

```
::
```

```
!*)
```

```
set x `expr "X$ans" : "X!(.*)"\\$"\\`
```

```
shift
```

```
sh 1>&4 -c "\\$*"
```

```
echo " "
```

```
$myecho
```

```
::
```

```
"$ans")
```

```
case "$ans" in
```

?X:

?X: Answers starting with & are hooks allowing to dynamically turn on/off

?X: some Configure options. That's for the future. -- RAM, 09/01/95

?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which

?X: is a hardwired behaviour compatible with

our general scheme.

?X:

```
\\&*)
```

```
set x `expr "X$ans" : "X&(.*)"\\$"\\`
```

```
shift
```

```
case "$1" in
```

```
-d)
```

```
fastread=yes
```

```
echo "(OK, I'll run with -d after this question.)" >&4
```

```
::
```



```

-*)
echo "*** Sorry, \$1 not supported yet." >&4
;;
esac
$myecho
ans=!
;;
esac;;
*)
case "\$aok" in
y)
echo "*** Substitution done -- please confirm."
xxxm="\$ans"
ans=\`echo $n "\$ans$c" | tr ' $trnl' ' '\`
xxxm="\$ans"
ans=!
;;
*)
echo "*** Error -- try again."
ans=!
;;
esac
$myecho
;;
esac
?X: Stick in myread if no default answer and nothing was answered
case "\$ans\$xxxm\$nostick" in
")
ans=!
$myecho
;;
esac
counter=\`echo \$counter | awk '{ print --\$0 }'\`
if [ \$counter = 0 ]; then
echo >&4
echo >&4 Too many attempts asking the same question. Giving up.
exit 1
fi
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myread.U

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

?RCS: \$Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: usenm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram

?RCS: patch61: don't use nm with the GNU C library

?RCS: patch61: added support for Linux shared libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
nm d_gnulibc osname egrep rsrc

?MAKE: -pick add \$@ %<

?S:usenm:

?S: This variable contains 'true' or 'false' depending
whether the

?S: nm extraction is wanted or not.

?S:.

?S:runnm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction should be performed or not, according to the value

?S: of usenm and the flags on the Configure command line.

?S:.

?S:nm_opt:

?S: This variable holds the options that may be necessary for nm.

?S:.

?S:nm_so_opt:

?S: This variable holds the options that may be necessary for nm

?S: to work on a shared library but that can not be used on an

?S: archive library. Currently, this is only used by Linux, where

?S: nm --dynamic is *required* to get symbols from an ELF library which

?S: has been stripped, but nm --dynamic is *fatal* on an archive library.

?S: Maybe Linux should just always set usenm=false.

?S:.

: see if nm is to be used to determine whether a symbol is defined or not

?X: If there is enough inquiries, it might be worth to wait for the nm

?X: extraction. Otherwise, the C compilations might be a better deal.

?X:

?X: Don't bother if we're

```

using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
dflt="
case "$d_gnulibc" in
"$define")
echo " "
echo "nm probably won't work on the GNU C Library." >&4
dflt=n
;;
esac
case "$dflt" in
")
if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
echo " "
echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4
echo "'nm' won't be sufficient on this system." >&4
dflt=n
fi
;;
esac
case "$dflt" in
") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
if $test $dflt -gt 20; then
dflt=y
else
dflt=n
fi
;;
esac
;;
*)
case "$usenm" in
true|$define) dflt=y;;
*) dflt=n;;
esac
;;
esac
$cat <<EOM

```

I can use \$nm to extract the symbols from your C libraries. This is a time consuming task which may generate huge output on the disk (up to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test

program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed,

this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM

```
rp="Shall I use $nm to extract C symbols from the libraries?"
```

```
./myread
```

```
case "$ans" in
```

```
[Nn]*) usenm=false;;
```

```
*) usenm=true;;
```

```
esac
```

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag

?X: was provided to configure (in which case we simply re-use the previous

?X: values).

```
runnm=$usenm
```

```
case "$reuseval" in
```

```
true) runnm=false;;
```

```
esac
```

: nm options which may be necessary

```
case "$nm_opt" in
```

```
") if $test -f /mach_boot; then
```

```
nm_opt="# Mach
```

```
elif $test -d /usr/ccs/lib; then
```

```
nm_opt='-p' # Solaris (and SunOS?)
```

```
elif $test -f /dgux; then
```

```
nm_opt='-p' # DG-UX
```

```
elif $test -f /lib64/rld; then
```

```
nm_opt='-p' # 64-bit Irix
```

```
else
```

```
nm_opt="
```

```
fi;;
```

```
esac
```

: nm options which may be necessary for shared libraries but illegal

: for archive

libraries. Thank you, Linux.

```
case "$nm_so_opt" in
```

```
") case "$myuname" in
```

```
*linux*|gnu*)
```

```
if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
```

```
nm_so_opt='--dynamic'
```

```
fi
```

```
;;
```

```
esac
```

```
;;
```

```
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usenm.U

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

?RCS: c) the GNU General Public License as published by the Free

?RCS: Software Foundation; either version 1, or (at your option) any

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin_overflow.U

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

?RCS: \$Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libflex.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:57:48 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:07:02 ram

?RCS: patch23: now uses full library path instead of -l notation

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:13:25 ram

?RCS: patch16: un-obsolete this unit to allow smooth lex/flex compilations

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:59 ram

?RCS: Baseline for dist 3.0 netwide

release.

?RCS:

?MAKE:libflex: Loc lex libpth _a

?MAKE: -pick add \$@ %<

?S:libflex:

?S: This variable contains the argument to pass to the loader in order

?S: to get the flex/lex library routines. If there is no flex or flex

?S: library, it is null.

?S:.

?T:xxx

: see if we should include -lfl

echo " "

case "\$lex" in

*flex)

```

xxx=`./loc libl$_a x $libpth`
case "$xxx" in
x)
echo "No flex library found." >&4
libflex="
;;
*)
echo "flex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*lex)
xxx=`./loc libl$_a x $libpth`
case "$xxx" in
x)
echo "No lex library found." >&4
libflex="
;;
*)
echo "lex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libflex.U

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

```

# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:00 ram

```

```
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:36 ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.
```

?RCS: You may redistribute only under the terms of the Artistic License,

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cppsym.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memchr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/errnolist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/voidflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_open3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ldbl_dig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/fpu.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysmman.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_vfork.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/i_pthread.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_safebcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_snprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Tr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_closedir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_stuff.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_drand48proto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldconfig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ustat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_wscmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_ndbm.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_safebcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrlen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/doublesize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sbrkproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_wctype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_voidsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_isascii.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_eofpipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bitpbyte.U
```

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sigprocmask.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_malloc.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usrinc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/instubperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_volatile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/abortsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_vfork.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/lseektype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_grp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpostype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scannl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strncpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sig_name.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/orderlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dir_dd_fd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libpth.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_time.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_gethostprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ssizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpagsz.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/mallocsrc.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/charsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_inttypes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_csh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ccflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Signal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_stdstdio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_attribut.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_flexfnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_castneg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_u32align.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_sethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/models.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_c99_variadic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/floatsize.U

```



```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/gidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randfunc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_syscallproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Findhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prefix.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_keepsig.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/need_va_copy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sitelib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigaction.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getnetprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socklen_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fd_set.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/d_time.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dlopen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_closedir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gnulibc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_portable.U
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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpu.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/i_time.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_gconvert.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/scriptdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ptrsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldconfig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/stdchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorbin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethbynm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sresgproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/uidtype.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/issymlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/modetype.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dlopen.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endnnt.U

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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_backtrace.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_poll.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_db.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_static_inline.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/myhostname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archlib.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorarch.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_usleepproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_flexfnam.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dladdr.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strerror.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/nblock_io.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_varhdr.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sig_name.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mallocmalloc.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Cppsym.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sanemcmp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prototype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sunscanf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/bitpbyte.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_safemcpy.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_volatile.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_netinettcp.U
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 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getpent.U

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Devel.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ssizetype.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_csh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_htonl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_htonl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setnent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtoul.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/myhostname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_const.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/gccvers.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setpgrp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endsent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/privlib.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_gnulibc.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nanosleep.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/pidtype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/src.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/inc_version_list.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strftime.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_sh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usrinc.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/fpostype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mmap.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/bin.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_attribut.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sresuproto.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getespwnam.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_ndbm.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setpent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shmat.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_vprintf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/modetype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dirfd.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigaction.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_castneg.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidsize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/byteorder.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/selecttype.U
- *

```

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_pwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_wifstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getsent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_int64_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sitearch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/models.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/prefix.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lseektype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_db.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nblock_io.U
*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sgndchr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_telldirproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_malloc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/selectminbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isblank.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sunscanf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_NOFILE.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_grp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/sizesize.U
*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/getopt.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Options.U,v \$

?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram

?RCS: patch61: optdef.sh now starts with a "startsh"

?RCS: patch61: moved some code from Head.U

?RCS:

?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram

?RCS: patch59: protected option parsing code against 'echo -*' option failure

?RCS:

?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram

?RCS: patch54: added -K option for experts

?RCS:

?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram

?RCS: patch49: this unit now exports file optdef.sh,
not a variable

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram

?RCS: patch45: new -O option allowing -D and -U to override config.sh settings

?RCS: patch45: file optdef.sh is no longer removed after sourcing

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram

?RCS: patch36: ensure option definition file is removed before appending

?RCS: patch36: protect variable definitions with spaces in them

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram

?RCS: patch30: now uses new me symbol to tag error messages

?RCS: patch30: new -D and -U options to define/undef symbols (JHI)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:14 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Command line parsing. It is really important that the variables used here

?X: be not listed in the MAKE line, or they will be saved in config.sh and

?X: loading this file to fetch default answers would clobber the values set

```

?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
alldone error realsilent silent extractsh fastread \
override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:/optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U. I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them. You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
<<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='*'
config_argc=$#
EOSH
argn=1
args_exp=""
args_sep=""
for arg in "$@"; do
cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by ""
cat <<EOC | sed -e "s/"/""/g" > cmdl.opt
$arg
EOC
arg_exp=`cat cmdl.opt`
args_exp="$args_exp$args_sep'$arg_exp'"
argn=`expr $argn + 1`
args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance

```



```
rm -f cmdl.opt
```

: produce awk script to parse command line options

```
cat >options.awk <<'EOF'
```

```
BEGIN {
```

```
    optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification
```

```
    len = length(optstr);
```

```
    for (i = 1; i <= len; i++) {
```

```
        c = substr(optstr, i, 1);
```

?X: some older awk's do not have the C ?: construct

```
        if (i < len) a = substr(optstr, i + 1, 1); else a = "";
```

```
        if (a == ":") {
```

```
            arg[c] = 1;
```

```
            i++;
```

```
        }
```

```
        opt[c] = 1;
```

```
    }
```

```
    }
```

```
    {
```

```
        expect = 0;
```

```
        str = $0;
```

```
        if (substr(str,
```

```
            1, 1) != "-") {
```

```
            printf("%s\n", str);
```

```
            next;
```

```
        }
```

```
        len = length($0);
```

```
        for (i = 2; i <= len; i++) {
```

```
            c = substr(str, i, 1);
```

```
            if (!opt[c]) {
```

```
                printf("-%s\n", substr(str, i));
```

```
                next;
```

```
            }
```

```
            printf("-%s\n", c);
```

```
            if (arg[c]) {
```

```
                if (i < len)
```

```
                    printf("%s\n", substr(str, i + 1));
```

```
                else
```

```
                    expect = 1;
```

```
                next;
```

```
            }
```

```
        }
```

```
    }
```

```
END {
```

```
    if (expect)
```

```
        print "?";
```

```
}
```

EOF

: process the command line options

?X: Use "\$@" to keep arguments with spaces in them from being split apart.

?X: For the same reason, awk will output quoted arguments and the final eval

?X: removes them and sets a proper \$* array. An 'X' is prepended to each

?X: argument before being fed to echo to guard against 'echo -x', where -x

?X: would be understood as an echo option! It is removed before feeding awk.

set X `for arg in "\$@"; do echo "X\$arg"; done |

sed -e s/X// | awk -f options.awk`

eval "set \$*"

shift

rm -f options.awk

: set up default values

fastread=""

reuseval=false

config_sh=""

alldone=""

error=""

silent=""

extractsh=""

override=""

knowitall=""

rm

-f optdef.sh posthint.sh

cat >optdef.sh <<EOS

\$startsh

EOS

?X:

?X: Given that we now have the possibility to execute Configure remotely

?X: thanks to the new src.U support, we have to face the possibility

?X: of having to ask where the source lie, which means we need the Myread.U

?X: stuff and possibly other things that might echo something on the

?X: screen...

?X:

?X: That's not pretty, and might be confusing in 99% of the time. So...

?X: We introduce a new realsilent variable which is set when -s is given,

?X: and we force silent=true if -S is supplied. The Extractall.U unit

?X: will then undo the >&4 redirection based on the value of the

?X: realsilent variable... -- RAM, 18/93/96

?X:

: option parsing

while test \$# -gt 0; do

case "\$1" in

-d) shift; fastread=yes;;

```

-e) shift; alldone=cont;;
-f)
  shift
  cd ..
  if test -r "$1"; then
    config_sh="$1"
  else
    echo "$me: cannot read config file $1." >&2
    error=true
  fi
  cd UU
  shift;;
-h)
  shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift; override=true;;
-S) shift; silent=true; extractsh=true;;
-D)
  shift
  case "$1" in
  *=)
    echo "$me: use '-U symbol=', not '-D symbol='." >&2
    echo "$me: ignoring -D $1" >&2
    ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\"'/g" -e "s/=(.*)/=\"1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
-U)
  shift
  case "$1" in
  *) echo "$1" >> optdef.sh;;
  *=*)
    echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
    echo "$me: ignoring -U $1" >&2
    ;;
  *) echo "$1='undef'" >> optdef.sh;;
  esac
  shift
  ;;
-A)
  shift
  xxx="

```

```

yyy="$1"
zzz=""
uuu=undef
case "$yyy" in
    *=*) zzz=`echo "$yyy"|sed 's!=.*!!'^
        case "$zzz" in
            *.* ) zzz="" ;;
            *) xxx=append
                zzz="" ``echo
"$yyy"|sed 's!^[^=]*=!!'^
                yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
        esac
    ;;
esac
case "$xxx" in
    ") case "$yyy" in
        *.* ) xxx=`echo "$yyy"|sed 's!:..*!!'^
            yyy=`echo "$yyy"|sed 's!^[^:]*.!!'^
            zzz=`echo "$yyy"|sed 's!^[^=]*=!!'^
            yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
        *) xxx=`echo "$yyy"|sed 's!:..*!!'^
            yyy=`echo "$yyy"|sed 's!^[^:]*.!!'^ ;;
    esac
    ;;
esac
case "$xxx" in
    append)
echo "$yyy=\\\"${$yyy}$zzz\\\"" >> posthint.sh ;;
    clear)
echo "$yyy="" >> posthint.sh ;;
    define)
        case "$zzz" in
            ") zzz=define ;;
        esac
echo "$yyy=$zzz" >> posthint.sh ;;
        eval)
echo "eval \\\"$yyy=$zzz\\\"" >> posthint.sh ;;
        prepend)
echo "$yyy=\\\"$zzz${$yyy}\\\"" >> posthint.sh ;;
        undef)
            case "$zzz" in
                ")
zzz="$uuu" ;;
            esac
echo "$yyy=$zzz" >> posthint.sh ;;
            *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
        esac
    shift

```

```

;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
        [-U symbol] [-U symbol=] [-A command:symbol...]
-d : use defaults for all answers.
-e : go on without questioning past the production of config.sh.
-f : specify an alternate default configuration file.
-h : print this help message and exit (with an error status).
-r : reuse C symbols value if possible (skips costly nm extraction).
-s : silent mode, only echoes questions and essential information.
-D : define symbol to have some value:
    -D symbol      symbol gets the value 'define'
    -D symbol=value
        symbol gets the value 'value'
-E : stop at the end of questions, after having produced config.sh.
-K : do not use unless you know what you are doing.
-O : let -D and -U override definitions from loaded configuration file.
-S : perform variable substitutions on all .SH files (can mix with -f)
-U : undefine symbol:
    -U symbol      symbol gets the value 'undef'
    -U symbol=      symbol gets completely empty
-A : manipulate symbol after the platform specific hints have been applied:
-A symbol=value append " "value to symbol
-A append:symbol=value append value to symbol
-A define:symbol=value define symbol to have value
    -A clear:symbol define symbol to be "
-A define:symbol define symbol to be 'define'
-A eval:symbol=value define symbol to be eval of value
-A prepend:symbol=value prepend value to symbol
-A undef:symbol define symbol to be 'undef'
-A undef:symbol= define symbol to be "
-V : print version number and exit (with
a zero status).
EOM
exit 1
;;
esac

```

?X:

?X: Unless they specified either -S or both -d and -e/E, make sure we're

?X: running interactively, i.e. attached to a terminal. Moved from Head.U to

?X: be able to handle batch configurations...

?X:

?X: We have to hardwire the Configure name and cannot use \$me, since if they

?X: said 'sh <Configure', then \$me is 'sh'...

?X:

: Sanity checks

case "\$fastread\$alldone" in

yescont|yesexit) ;;

*)

case "\$extractsh" in

true) ;;

*)

if test ! -t 0; then

echo "Say 'sh Configure', not 'sh <Configure'"

exit 1

fi

::

esac

::

esac

?X: In silent mode, the standard output is closed. Questions are asked by

?X: outputting on file descriptor #4, which is the original stdout descriptor.

?X: This filters out all the "junk", since all the needed information is written

?X: on #4. Note that ksh will not let us redirect output if the file descriptor

?X: has not been defined yet, unlike sh, hence the following line...--RAM.

exec 4>&1

case "\$silent" in

true)

exec 1>/dev/null;;

esac

: run the defines and the undefines, if any, but leave the file out there...

touch optdef.sh

./optdef.sh

: create the posthint manipulation script and leave the file out there...

?X: this file will be perused by Oldconfig.U

touch posthint.sh

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Options.U

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

?RCS: \$Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cc.U,v \$

?RCS: Revision 3.0.1.4 1995/05/12 12:06:47 ram

?RCS: patch54: may now abort Configure when cc does not work

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:20:11 ram

?RCS: patch45: changed gcc checking message to a more explicit one (WED)

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:04:29 ram

?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)

?RCS: patch36: simplified gcc version checking (ADO)

?RCS: patch36: added ?F: line for metalint

file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:26:06 ram

?RCS: patch23: added support for gcc version (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:30 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:cc: Myread Oldconfig Checkcc test

?MAKE: -pick add \$@ %<

?S:cc:

?S: This variable holds the name of a command to execute a C compiler which

?S: can resolve multiple global references that happen to have the same

?S: name. Usual values are 'cc' and 'gcc'.

?S: Ferrent ANSI compilers may be called 'c89'. AIX has xlc.

?S:.

?F:!cc.cbu

?D:cc='cc'

: Determine the C compiler to be used

echo " "

case "\$cc" in

") dflt=cc;;

*) dflt="\$cc";;

esac

rp="Use which C compiler?"

./myread

cc="\$ans"

: See whether they have no cc but they do have gcc

```

./trygcc
?X: Look for a hint-file generated 'call-back-unit'. Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
    ./cc.cbu
fi
./checkcc

```

Found

in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
3.0.1.1 1993/08/25 14:00:05 ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:50 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
+cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc

```


?LINT:extern mistrustnm

?LINT:set mistrustnm

?S:csym:

?S: This shell variable is used internally by Configure to check

?S: whether a given C symbol is defined or not. A typical use is:

?S: set symbol result [-fva] [previous]

?S: eval \$csym

?S: That will set result to 'true' if the function [-f], variable [-v]

?S: or array [-a] is defined, 'false' otherwise. If a previous value is

?S: given and the -r flag was provided on the command line, that value

?S: is reused without questioning.

?S:.

?S:extern_C:

?S: ANSI C

requires 'extern' where C++ requires 'extern "C"'. This

?S: variable can be used in Configure to do the right thing.

?S:.

?S:mistrustnm:

?S: This variable can be used to establish a fallback for the cases

?S: where nm fails to find a symbol. If usenm is false or usenm is true

?S: and mistrustnm is false, this variable has no effect. If usenm is true

?S: and mistrustnm is "compile", a test program will be compiled to try to

?S: find any symbol that can't be located via nm lookup. If mistrustnm is

?S: "run", the test program will be run as well as being compiled.

?S:.

?V:csym

?T:tval tx tlook tf tdc

?F:!try

: is a C symbol defined?

csym='tlook=\$1;

case "\$3" in

-v) tf=libc.tmp; tdc="";;

-a) tf=libc.tmp; tdc="[]";;

*) tlook="^\$1\\$"; tf=libc.list; tdc="()";;

esac;

case "\$d_cplusplus" in

\$define) extern_C="extern \"C\"";;

*) extern_C="extern";;

esac;

tx=yes;

case "\$reuseval-\$4" in

true-) ;;

true-*) tx=no; eval "tval=\\$4"; case "\$tval" in "") tx=yes;; esac;;

esac;

case "\$tx"

in

yes)

?X:

?X: Put symbol inside a printf to fool optimizing compilers...

?X:

?X: We use 'short' instead of 'int' to try to circumvent overzealous

?X: optimizing compilers using built-in prototypes for commonly used

?X: routines to complain when seeing a different external declaration. For

?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against

?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return

?X: type), the compiler assuming it's a built-in declaration given that the

?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO

?X:

?X: Let's thank GNU cc for making our lives so easy! :-)

?X: (An alternative for the future would be to use our knowledge about gcc

?X: to force a -fno-builtin option in the compile test, in case the 'short'

?X: trick is obsoleted by future gcc releases). -- RAM

?X:

```
tval=false;
if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
    tval=true;
  elif $test "$mistrustnm"
= compile -o "$mistrustnm" = run; then
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
  $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
  $rm_try;
fi;
else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
fi;
;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;
;;
esac;
eval "$2=$tval"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Csym.U

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

?RCS: \$Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi \$

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3 1995/01/11 15:32:11 ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2 1994/05/06 15:10:04 ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:14:18 ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:10 ram
?RCS: Baseline for dist
3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail>".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
if $test -f "$sendmail"; then
dflt="$sendmail"
elif $test -f "$smail"; then
dflt="$smail"
elif $test -f "$rmail"; then
dflt="$rmail"
elif $test -f /bin/mail; then
dflt=/bin/mail
else
dflt=$mail
fi
;;
*) dflt="$mailer";;
esac

```

\$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM

fn=f

rp='Mail

transport agent to be used?'

. ./getfile

mailer="\$ans"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailer.U

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

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/baserev.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

```

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links. This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if { test -f ../MANIFEST }
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
in
$define|true|[[yY]*)
echo " "
case "$src" in
"|.") echo "Cannot create symlinks in the original directory." >&4
exit 1
;;
*) case "$lns:$issymlink" in
*"ln"*" -s:"*"test -"?)
echo "Creating the symbolic links..." >&4
echo "(First creating the subdirectories..." >&4
cd ..
awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
sort -u | while true
do
read dir
test -z "$dir" && break
./UU/mkdirp $dir 2>/dev/null
if test -d $dir; then
: ok
else
echo "Failed to create '$dir'. Aborting." >&4
exit 1
fi
done
echo "(Now creating the symlinks..." >&4
awk '{print $1}' $src/MANIFEST | while true; do

```

```

read filename
test -z "$filename" && break
if test -f $filename; then
  if $issymlink $filename; then
    rm -f $filename
  fi
fi
if test -f $filename; then
  echo "$filename already exists, not symlinking."
else
?X: Note that the following works because "$pkgsrc" is absolute
  ln
  -s $pkgsrc/$filename $filename
  fi
done
?X: Check that everything was correctly copied
echo "(Checking current directory...)" >&4
cd UU
awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
(split -l 50 2>/dev/null || split -50)
rm -f missing
tmppwd=`pwd`
for filelist in x??; do
  (cd ..; ls `cat "$tmppwd/$filelist"` \
  >/dev/null 2>>"$tmppwd/missing")
done
if test -s missing; then
  echo "Failed duplication of source tree. Aborting." >&4
  exit 1
fi
;;
*) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
;;
esac
;;
esac
;;
esac
;;
esac
@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mksymlinks.U

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

?RCS: \$Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:08:26 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:01 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines. If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
    use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
    echo "New math library found." >&4
    libnm='-lnm'
else
    ans=`./loc libnm$_a x $libpth`
    case "$ans" in
    x)
        echo "No nm library found--the normal math library will have to do." >&4
        libnm=""
        ;;
    *)
        echo "New math library found in $ans." >&4
        libnm="$ans"
        ;;
    esac
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
    variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
    dflt='sl'
else
    dflt='so'
fi
;;
*) dflt="$so";;
esac
$cat <<EOM

```


On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

EOM

rp='What is the file extension used for shared libraries?'

./myread

so="\$ans"

: Does target system insist that shared library basenames are unique

\$cat << EOM

Some dynamic loaders assume that the *basename* of shared library filenames

are globally unique. We'll default this to undef as we assume your system is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'

rp='Make shared library basenames unique?'

./myread

case "\$ans" in

y|Y) val="\$define" ;;

*) val="\$undef" ;;

esac

set d_libname_unique

eval \$setvar

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/so.U

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

?RCS: \$Id: dlsrc.U,v\$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: dlex.U,v \$

?RCS:

?X: hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>

?X:

?X: To create a shared library, you must compile ALL source files in the

?X: library with +z (or possibly +Z if the library is whopping huge),

?X: then link the library with -b. Example:

?X: cc -c +z module_a.c

```
?X: cc -c +z module_b.c
?X: ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
  Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
$cat <<
EOM
```

On a few systems, the dynamically loaded modules that perl generates and uses will need a different extension than shared libs. The default will probably be appropriate.

```
EOM
case "$dlext" in
") dflt="$so" ;;
*) dflt="$dlext" ;;
esac
rp='What is the extension of dynamically loaded modules'
. ./myread
dlext="$ans"
;;
*)
dlext="none"
;;
esac
```

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlext.U
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```

?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
  Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages. It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
  who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir="
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
  vendorman3direxp="
  ;;
*) : determine where vendor-supplied module manual pages go.
  case "$vendorman3dir" in
  ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
  *) dflt=$vendorman3dir ;;
  esac
  case "$dflt" in
  "|' ") dflt=none ;;
  esac
  fn=nd~+
  rp=Pathname
  for the vendor-supplied manual section 3 pages?'
. ./getfile

```

```

vendorman3dir="$ans"
vendorman3direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman3dir.U

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

```

?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:31:14 ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc. This variable allows us to determine in a makefile
?S: if we really
    have byacc.
?S:..
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
|"byacc") val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_byacc.U

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

?RCS: \$Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp \$

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sysman.U,v \$

?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram

?RCS: patch30: now explicitly states that /usr/man/man1 is the default

?RCS: patch30: added /usr/local/man/man1 to the search list

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram

?RCS: patch10: added support for /local/man/man1 (WAD)

?RCS: patch10: added temporary syspath variable to cut down on line length

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:55 ram

?RCS: Baseline for dist 3.0 netwide

release.

?RCS:

?MAKE:sysman: test Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:sysman:

?S: This variable holds the place where the manual is located on this

?S: system. It is not the place where the user wants to put his manual

?S: pages. Rather it is the place where Configure may look to find manual

?S: for unix commands (section 1 of the manual usually). See mansrc.

?S:.

?T:syspath

: determine where manual pages are on this system

echo " "

case "\$sysman" in

")

syspath='/usr/share/man/man1 /usr/man/man1'

syspath="\$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"

syspath="\$syspath /usr/man/u_man/man1"

syspath="\$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"

syspath="\$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"

syspath="\$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"

sysman=`./loc . /usr/man/man1 \$syspath`

;;

esac

```

if $test -d "$sysman"; then
    echo "System manual is in $sysman." >&4
else
    echo "Could not find manual pages in source form."
    >&4
fi

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sysman.U
```

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

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: siteprefix.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
```

```
?MAKE: -pick add $@ %<
```

```
?S:siteprefix:
```

```
?S: This variable holds the full absolute path of the directory below
```

```
?S: which the user will install add-on packages.
```

```
?S: See INSTALL for usage and examples.
```

```
?S:.
```

```
?S:siteprefixexp:
```

```
?S: This variable holds the full absolute path of the
directory below
```

```
?S: which the user will install add-on packages. Derived from siteprefix.
```

```
?S:.
```

```
?S:oldsiteprefix:
```

```
?S: This variable is set non-null if the siteprefix was previously defined
```

```
?S: and gets set to a new value. Used internally by Configure only.
```

```
?S:.
```

```
: Set the siteprefix variables
```

```
$cat <<EOM
```

After \$package is installed, you may wish to install various add-on modules and utilities. Typically, these add-ons will be installed under \$prefix with the rest of this package. However, you may wish to install such add-ons

elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's ok. You will be prompted for the individual locations; this siteprefix is only used to suggest the defaults.

The default should be fine for most people.

EOM

fn=d~+

rp='Installation prefix to use for add-on modules and utilities?'

: XXX Here might be another good place for an installstyle setting.

case "\$siteprefix" in

") dflt=\$prefix ;;

*) dflt=\$siteprefix

;;

esac

./getfile

: XXX Prefixit unit does not yet support siteprefix and vendorprefix

oldsiteprefix="

case "\$siteprefix" in

") ;;

*) case "\$ans" in

"\$prefix") ;;

*) oldsiteprefix="\$prefix";;

esac

;;

esac

siteprefix="\$ans"

siteprefixexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteprefix.U

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

?RCS: \$Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: nis.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram

?RCS: patch61: ensure suitable defaults for hostcat and friends

```

?RCS:
?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file. This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
case "$passcat" in
nidump*) ;;
*)
case "$passcat" in
*ypcat*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
dflt=y

```



```

else
    dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the passwd file via yellow pages?'
. ./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'
@if groupcat
    echo "(Assuming /etc/group is also local.)"
    groupcat='cat /etc/group'
@end
;;
esac
;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case
"$hostcat" in
*y*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
else
    dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
. ./myread
case "$ans" in
y*) hostcat='ypcat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac

```

```

@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/nis.U

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

?RCS: \$Id: sitescript.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sitescript.U,v \$

?RCS:

?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \

Setprefixvar sitebin siteprefix

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitescript="

?S:sitescript:

?S: This variable holds the name of the directory in which the user wants

?S: to put add-on publicly executable files for the package in question. It

?S: is most often a local directory such as /usr/local/bin. Programs using

?S: this variable must be prepared to deal with ~name substitution.

?S: The standard

distribution will put nothing in this directory.

?S: After perl has been installed, users may install their own local

?S: scripts in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitescriptexp="

?S:sitescriptexp:

?S: This is the same as the sitescript variable, but is filename expanded at

?S: configuration time, for use in your makefiles.

?S:.

?D:installsitescript=

?S:installsitescript:

?S: This variable is usually the same as sitescriptexp, unless you are on

?S: a system running AFS, in which case they may differ slightly. You

?S: should always use this variable within your makefiles for portability.

?S:.

?LINT:change prefixvar

?LINT:set installsitescript

?LINT:set sitescript

?LINT:set sitescriptexp

: determine where add-on public executable scripts go

case "\$sitescript" in

") dflt=\$siteprefix/script

\$test -d \$dflt || dflt=\$sitebin ;;

*) dflt="\$sitescript" ;;

esac

fn=d~+

rp='Pathname where add-on public executable scripts

should be installed?'

./getfile

prefixvar=sitescript

./setprefixvar

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitescript.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Init.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram

?RCS: patch44: removed Options from MAKE to prevent Init overrides

?RCS: patch44: option processing now done after Myinit thanks to new Begin.U

?RCS: patch44: moved "Beginning of configuration questions" to Begin.U

?RCS: patch44: moved signal trapping instruction to Begin.U as well

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This file initializes certain default variables
used by Configure. They

?X: may be overridden or added to by definitions in Myinit.U.

?X:

?MAKE:Init eunicefix _exe: Null

?MAKE: -pick add \$@ %<

?MAKE: -pick weed \$@ ./Init

?S:eunicefix:

?S: When running under Eunice this variable contains a command which will

?S: convert a shell script to the proper form of text file for it to be

?S: executable by the shell. On other systems it is a no-op.

?S:.

?S:_exe (exe_ext):

?S: This variable defines the extension used for executable files.

?S: For unix it is empty. Other possible values include '.exe'.

?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.

?S: On operating systems which do not require a specific extension

?S: for executable files, this variable is empty.

?S:.

?V:define undef smallmach:rmlist

?X:

?X: Throughout the units, one may make use of \$define and \$undef to reference

?X: a defined symbol or an undefined one. There is no need to add them in

?X: the dependency line since this unit makes them visible via ?V:, and

?X:

everyone inherits from those symbols since by convention Init.U is the

?X: root dependency.

?X:

?T: DJGPP

: Initialize wide constants

define='define'

undef='undef'

smallmach='pdp11 i8086 z8000 i80286 iAPX286'

rmlist="

: We must find out about Eunice early

eunicefix=''

if test -f /etc/unixtovms; then

eunicefix=/etc/unixtovms

fi

if test -f /etc/unixtovms.exe; then

eunicefix=/etc/unixtovms.exe

fi

: Set executable suffix now -- needed before hints available

```

if test -f "/libs/version.library"; then
: Amiga OS
_exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
_exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
_exe=".exe"
elif test -d c:/ ; then
: OS/2 or cygwin
_exe=".exe"
else
: All other UNIX systems
_exe=""
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Init.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \

Setprefixvar prefix siteprefix man3dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:siteman3dir="

?S:siteman3dir:

?S: This variable contains the name of the directory in which site-specific

?S: library man source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After

perl has been installed, users may install their own local

?S: man3 pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

```

?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"`) ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"| ") dflt=none ;;
esac
fn=dn+~
rp='Pathname
  where the site-specific library manual pages should be installed?'
./getfile
prefixvar=siteman3dir
./setprefixvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman3dir.U

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

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty

Copyright (c) 1999-2011, H.Merijn Brand

All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README

This file.

Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

ln-all.pl

Re-generate the all/ folder

mkglossary

A script

to regenerate Porting/Glossary. You have to manually edit the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

mksample

A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/

These are units that have to go first in the generated config_h.SH.

A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.

However, config_h.SH

is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)

The a_dvisory/ directory, then, is a place to put units that need to be early in config_h.SH. (Most units are self-contained

and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/

These are units to handle perl's installation directories and related issues.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/

These are specific to perl. Some are heavily derived from

original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/

These are specific to threading perl.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

- a) the "Artistic License" which comes with Perl, or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the

Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License. Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided that you explicitly state where you got them from, in the source code (and, left to your courtesy, in the documentation), duplicating all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README

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

?RCS: \$Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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```

?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:23:06 ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1 1993/08/24 12:24:43 ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise. It is possible to override this
?S: with a hint value or command line option,
    but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option. This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$safsroot" in
") afsroot=/afs ;;
*) afsroot=$safsroot ;;
esac

: is AFS running?
echo " "
case "$safs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $safsroot; then
    afs=true
    else
    afs=false
    fi
;;
esac
if $safs; then
    echo "AFS may be running... I'll be extra cautious then..." >&4
else
    echo "AFS does not seem to be running..." >&4
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/afs.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: usenm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram

?RCS: patch61: don't use nm with the GNU C library

?RCS: patch61: added support for Linux shared libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
d_gnulibc nm egrep rsrc osname Guess

?MAKE: -pick add \$@ %<

?S:usenm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction is wanted

or not.

?S:.

?S:runnm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction should be performed or not, according to the value

?S: of usenm and the flags on the Configure command line.

?S:.

?S:nm_opt:

?S: This variable holds the options that may be necessary for nm.

?S:.

?S:nm_so_opt:

?S: This variable holds the options that may be necessary for nm

?S: to work on a shared library but that can not be used on an

?S: archive library. Currently, this is only used by Linux, where

?S: nm --dynamic is *required* to get symbols from an ELF library which

?S: has been stripped, but nm --dynamic is *fatal* on an archive library.

?S: Maybe Linux should just always set usenm=false.

?S:.

: see if nm is to be used to determine whether a symbol is defined or not

?X: If there is enough inquiries, it might be worth to wait for the nm

?X: extraction. Otherwise, the C compilations might be a better deal.

?X:

?X: Don't bother if we're using GNU libc -- skimo

```
case "$usenm"
in
")
dflt="
case "$d_gnulibc" in
"$define")
echo " "
echo "$nm probably won't work on the GNU C Library." >&4
dflt=n
;;
esac
case "$dflt" in
")
if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
echo " "
echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4
echo "'nm' won't be sufficient on this system." >&4
dflt=n
fi
;;
esac
case "$dflt" in
")
if ./gnu; then
echo " "
echo "Hmm... A GNU system without a GNU C Library? Weird..." >&4
dflt=n
else
dflt=`$egrep 'inlibc|csym' $src/Configure | wc -l 2>/dev/null`
if $test $dflt -gt 20; then
dflt=y
else
dflt=n
fi
fi
;;
esac
;;
*)
case "$usenm" in
true|$define) dflt=y;;
*) dflt=n;;
esac
;;
```

```
esac
$cat <<EOM
```

I can use `$nm` to extract the symbols from your C libraries. This is a time consuming task which may generate huge output on the disk (up to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed, this may be the best solution.

```
EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac
```

```
?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac
```

```
: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
    nm_opt=" # Mach
elif $test -d /usr/ccs/lib; then
    nm_opt='-p' # Solaris (and SunOS?)
elif $test -f /dgux; then
    nm_opt='-p' # DG-UX
elif $test -f /lib64/rld; then
    nm_opt='-p' # 64-bit Irix
else
    nm_opt="
fi;;
esac
```

```
?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries. Thank you,
Linux.
case "$nm_so_opt" in
") case "$osname" in
```


?RCS: This file is included with or a derivative work of a file included
 ?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
 ?RCS: In accordance with clause 7 of dist's modified Artistic License:
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?RCS: \$Log: patchlevel.U,v \$
 ?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram
 ?RCS: patch61: added support for src.U
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:09:31 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
 ?MAKE: -pick
 add \$@ %<
 ?S:revision:
 ?S: The value of revision comes from the patchlevel.h file.
 ?S: In a version number such as 5.6.1, this is the "5".
 ?S: In patchlevel.h, this is referred to as "PERL_REVISION".
 ?S:.
 ?S:patchlevel:
 ?S: The patchlevel level of this package.
 ?S: The value of patchlevel comes from the patchlevel.h file.
 ?S: In a version number such as 5.6.1, this is the "6".
 ?S: In patchlevel.h, this is referred to as "PERL_VERSION".
 ?S:.
 ?S:subversion:
 ?S: The subversion level of this package.
 ?S: The value of subversion comes from the patchlevel.h file.
 ?S: In a version number such as 5.6.1, this is the "1".
 ?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
 ?S: This is unique to perl.
 ?S:.
 ?S:version:
 ?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
 ?S: This combines revision, patchlevel, and subversion to get the
 ?S: full version number, including any possible subversions.
 ?S: This is suitable for use as a directory name, and hence is
 ?S: filesystem
 dependent.
 ?S:.
 ?S:api_revision:
 ?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_revision is the '5'.

?S: Prior to 5.5.640, the format was a floating point number,

?S: like 5.00563.

?S:

?S: perl.c:incpush() and lib/lib.pm will automatically search in

?S: \$sitelib/.. for older directories back to the limit specified

?S: by these api_ variables. This is only useful if you have a

?S: perl library directory tree structured like the default one.

?S: See INSTALL for how this works. The versioned site_perl

?S: directory was introduced in 5.005, so that is the lowest

?S: possible value. The version list appropriate for the current

?S: system is determined in inc_version_list.U.

?S:

?S: XXX To do: Since compatibility can depend on compile time

?S: options (such as bincompat, longlong, etc.) it should

?S: (perhaps) be set by

Configure, but currently it isn't.

?S: Currently, we read a hard-wired value from patchlevel.h.

?S: Perhaps what we ought to do is take the hard-wired value from

?S: patchlevel.h but then modify it if the current Configure

?S: options warrant. patchlevel.h then would use an #ifdef guard.

?S:.

?S:api_version:

?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_version is the '6'. See api_revision for

?S: full details. As a special case, 5.5.0 is rendered in the

?S: old-style as 5.005. (In the 5.005_0x maintenance series,

?S: this was the only versioned directory in \$sitelib.)

?S:.

?S:api_subversion:

?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_subversion is the

'1'. See api_revision for

?S: full details.

?S:.

?S:api_versionstring:

?S: This variable combines api_revision, api_version, and

?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable

?S: for use as a directory name. This is filesystem dependent.

?S:.

?S:perl_patchlevel:

?S: This is the Perl patch level, a numeric change identifier,

?S: as defined by whichever source code maintenance system

?S: is used to maintain the patches; currently Perforce.

?S: It does not correlate with the Perl version numbers or

?S: the maintenance versus development dichotomy except

?S: by also being increasing.

?S:.

?S:version_patchlevel_string:

?S: This is a string combining version, subversion and

?S: perl_patchlevel (if perl_patchlevel is non-zero).

?S: It is typically something like

?S: 'version 7 subversion 1' or

?S: 'version 7 subversion 1 patchlevel 11224'

?S: It is computed here to avoid duplication of code in myconfig.SH

?S: and lib/Config.pm.

?S:.

?LINT:extern LC_ALL

?LINT:extern LANGUAGE

:

get the patchlevel

echo " "

echo "Getting the current patchlevel..." >&4

if \$test -r \$src/patchlevel.h;then

revision=`awk '/define[]+PERL_REVISION/ {print \$3}' \$src/patchlevel.h`

patchlevel=`awk '/define[]+PERL_VERSION/ {print \$3}' \$src/patchlevel.h`

subversion=`awk '/define[]+PERL_SUBVERSION/ {print \$3}' \$src/patchlevel.h`

api_revision=`awk '/define[]+PERL_API_REVISION/ {print \$3}' \$src/patchlevel.h`

api_version=`awk '/define[]+PERL_API_VERSION/ {print \$3}' \$src/patchlevel.h`

api_subversion=`awk '/define[]+PERL_API_SUBVERSION/ {print \$3}' \$src/patchlevel.h`

perl_patchlevel=`egrep ',(MAINT|SMOKE)[0-9][0-9]*"' \$src/patchlevel.h|tail -1|sed 's/[^0-9]//g`

else

revision=0

patchlevel=0

subversion=0

api_revision=0

api_version=0

api_subversion=0

perl_patchlevel=0

\$echo "(You do not have patchlevel.h. Eek.)"

fi

: Define a handy string here to avoid duplication in myconfig.SH and configpm.

version_patchlevel_string="version \$patchlevel subversion \$subversion"

case

"\$perl_patchlevel" in

0|") ;;

) perl_patchlevel=`echo \$perl_patchlevel | sed 's/./'"`

version_patchlevel_string="\$version_patchlevel_string patch \$perl_patchlevel"

;;

esac

```

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
: XXX Should be a Configure test for double-dots in filenames.
version=`echo $revision $patchlevel $subversion | \
  $awk '{ printf "%d_%d_%d", $1, $2, $3 }`
api_versionstring=`echo $api_revision $api_version $api_subversion | \
  $awk '{ printf "%d_%d_%d", $1, $2, $3 }`
;;
*)
version=`echo $revision $patchlevel $subversion | \
  $awk '{ printf "%d.%d.%d", $1, $2, $3 }`
api_versionstring=`echo $api_revision $api_version $api_subversion | \
  $awk '{ printf "%d.%d.%d", $1, $2, $3 }`
;;
esac

: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
  api_versionstring='5.005'
fi

```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty

Copyright (c) 1999-2011, H.Merijn Brand

All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source directory. This will create a directory 'U' under the perl5 sources. That directory will contain the metaconfig units for perl5. This will also create two files in the perl5 source tree: MANIFEST.new and .package.
3. Apply any patches to perl in the perl_patches/ directory. (This may well be empty.)
4. Obtain and install dist-3.0pl70.
4. Apply any patches to dist under the dist_patches subdirectory.
5. From your main perl5 source directory, run packinit to regenerate the .package file. **IMPORTANT:** Change the name and address of the maintainer to your own name and address. I don't want bug reports intended for you coming to me.
6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.
7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)
8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70 location. (See comments at the top.)
9. Run the Porting/mksample script to update the contents of the Porting/ subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample; see Porting/pumpkin.pod instead for current documentation on its use.
10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably start with the randfunc.U unit included here. It's currently broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following directories:

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. I have submitted these for inclusion into the regular dist distribution. (The ccflags.U unit is actually perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/

This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/

These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typedef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/

These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

- a) the "Artistic License" which comes with Perl,
or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

- 7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code

(and, left to your courtesy, in the documentation), duplicating all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README.dist

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

?RCS: \$Id: Extras.U,v\$

?RCS:

?RCS: Copyright (c) 2001, Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:extras: Myread Oldconfig Setvar rm

?MAKE: -pick add \$@ %<

?Y:TOP

?S:extras:

?S: This variable holds a list of extra modules to install.

?S:.

: See if we want extra modules installed

echo " "

case "\$extras" in

") dflt='n';;

*) dflt='y';;

esac

cat <<EOM

Perl can be built with extra modules or bundles of modules which will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet, or a local copy, for example a CD-ROM or a local CPAN mirror. (You will be asked later to configure the CPAN.pm module which will in turn do the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require any external software such as libraries and headers (the libz library and the zlib.h header for the Compress::Zlib module, for example) you MUST have any such software already installed, this configuration process will NOT install such things for you.

If this doesn't make any sense to you, just accept the default '\$dflt'.

EOM

```
rp='Install any extra modules (y or n)?'
```

```
./myread
```

```
case "$ans" in
```

```
y|Y)
```

```
cat <<EOM
```

Please list any extra modules or bundles to be installed from CPAN, with spaces between the names. The names can be in any format the 'install' command of CPAN.pm will understand. (Answer 'none', without the quotes, to install no extra modules or bundles.)

EOM

```
rp='Extras?'
```

```
dflt="$extras"
```

```
./myread
```

```
extras="$ans"
```

```
esac
```

```
case "$extras" in
```

```
"|'none')
```

```
val="
```

```
$rm -f ../extras.lst
```

```
::
```

```
*) echo "(Saving the list of extras for later...)"
```

```
echo "$extras" > ../extras.lst
```

```
val="$extras"
```

```
::
```

```
esac
```

```
set extras
```

```
eval $setvar
```

```
echo " "
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Extras.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man1 used instead of man everywhere.

?X:

?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \

spackage test Getfile Prefixit prefixexp

Prefixup sysman Myread

?MAKE: -pick add \$@ %<

?Y:TOP

?S:man1dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?S:man1direxp:

?S: This variable is the same as the man1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?S:installman1dir:

?S: This variable is really the same as man1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man1ext:

?S: This variable contains the extension that the manual page should

?S: have: one of 'n', 'l', or '1'. The Makefile must supply the 'l'.

```

?S: See man1dir.
?S:.
?T:lookpath
: determine
  where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
  echo "However, you don't have nroff, so they're probably useless to you."
  case "$man1dir" in
  ") man1dir="none";;
  esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
;;
")
  lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
  lookpath="$lookpath $prefixexp/man/p_man/man1"
  lookpath="$lookpath $prefixexp/man/u_man/man1"
  lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there. Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
  case "$sysman" in
  */*_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
  *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
  esac
  set dflt
  eval $prefixup
  ;;
  *)
    dflt="$man1dir"
    ;;
  esac
  echo " "
  fn=dn+~
  rp="Where do the main $spackage manual pages (source) go?"
  ./getfile
  if $test "X$man1direxp" != "X$ansexp"; then
    installman1dir="

```

```

fi
man1dir="$sans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
installman1dir="";;
esac
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installman1dir" in
") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#`";;
*) dflt="$installman1dir";;
esac
fn=de~
rp='Where will man pages be installed?'
./getfile
installman1dir="$sans"
else
installman1dir="$man1direxp"
fi

```

: What suffix to use on installed man pages

```

case "$man1dir" in
')
man1ext='0'
;;
*)
rp="What suffix should be used for the main $spackage man pages?"
case "$man1ext" in
") case "$man1dir" in
*1) dflt=1 ;;
*1p)
dflt=1p ;;
*1pm) dflt=1pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L1) dflt=L1;;

```

```

*) dflt=1;;
esac
;;
*) dflt="$man1ext";;
esac
. ./myread
man1ext="$ans"
;;
esac

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: yacc.U,v \$

?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram

?RCS: patch27: added byacc as another alternative (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:10:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test

?MAKE: -pick add \$@ %<

?S:yacc:

?S: This variable holds the name of the compiler compiler we

?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.

?S:.

?S:yaccflags:

?S: This variable contains any
additional yacc flags desired by the

?S: user. It is up to the Makefile to use this.

?S:.

?T:comp

: determine compiler compiler

echo " "

comp='yacc'

if \$test -f "\$byacc\$_exe"; then

comp="byacc or \$comp"

```

fi
if $test -f "$bison$_exe"; then
    comp="$comp or bison -y"
fi
case "$yacc" in
    ")
        yacc=`./loc yacc yacc $pth`
        if $test -f "$yacc$_exe"; then
            dflt='yacc'
        elif $test -f "$byacc$_exe"; then
            dflt='byacc'
        elif $test -f "$bison$_exe"; then
            dflt='bison'
        else
            dflt=""
        fi
        ;;
    *) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
    *bis*)
        case "$yacc" in
            *-y*) ;;
            *)
                yacc="$yacc -y"
                echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
                ;;
        esac
        ;;
esac
$cat <<EOH

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
    ") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

EOH

rp="Any additional yacc flags?"

. ./myread

case "\$ans" in

none) yaccflags="";;

*) yaccflags="\$ans";;

esac

@end

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/yacc.U

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

?RCS: \$Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: warnflags.U,v \$

?RCS: Revision 3.0 1993/08/18 12:10:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr

?MAKE: -pick add \$@ %<

?S:warnflags:

?S: This variable contains any additional C compiler flags to generate

?S: warnings from the compiler. It is up to the Makefile to use this.

?S:.

: offer additional

warning flags for compilation

\$cat <<EOH

You may wish to compile with extra compiler warnings enabled.

Note that doing so enhances your chance of receiving your free set of steak knives, particularly if you find any bugs and report them.

If you don't want extra warnings, answer "none".

EOH

case "\$warnflags" in

```

") case "$cc" in
*gcc*)
dflt="-Wall -Wno-comment"
if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
:
else
dflt="$dflt -Wno-implicit"
fi
;;
*) dflt="none";;
esac
;;
') dflt="none";;
*) dflt="$warnflags";;
esac

```

rp="Any \$cc flags to enable warnings?"

```

./myread
case "$ans" in
none) warnflags='';;
*) warnflags="$ans";;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/warnflags.U

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

?RCS: \$Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: Warn_v7EXT.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:01:42 ram

?RCS: patch36: call ./v7 explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:17 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit issues warnings to V7 sites that they are living dangerously.

?X: This unit needs to get mentioned in End.U to get included.

?X:

```
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
then
cat <<EOM
```

NOTE: the V7 compiler may ignore some #undefs that \$package uses. If so, you may get messages about redefining EXT. Some V7 compilers also have difficulties with #defines near buffer boundaries, so beware. You may have to play with the spacing in some .h files, believe it or not.

```
EOM
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:52 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
```



```

cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
if test ! -d "$name"; then
create="$name $create"
name=`echo $name | sed -e "s|^[^/]*$||"``
name=`echo $name | sed -e "s|(.*\)/.*|1|"``
else
name=""
fi
done
for file in $create; do
mkdir $file
done
EOS
chmod +x mkdirp
$unicefix mkdirp

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mkdirp.U

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

?RCS: \$Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package

?MAKE: -pick add \$@ %<

?Y:TOP

?S:packadmin:

?S: Electronic mail address of the package administrator.

?S:.

: check wehther they will act as local admin for the package

\$cat <<EOM

If you or somebody else will be maintaining \$package at your site, please

fill in the correct e-mail address here so that they may be contacted

if necessary. You may enter "none"
for no administrator.

EOM

```
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/packadmin.U

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

?RCS: \$Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp \$

?RCS:

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?RCS:

?RCS: \$Log: libs.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram

?RCS: patch36: removed old broken thislib/thatlib processing (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram

?RCS: patch30: code cleanup with if/elif by ADO and RAM

?RCS: patch30:

undone patch23 for libswanted default setting

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram

?RCS: patch23: now includes ordered default libswanted variable (ADO)

?RCS: patch23: major cleanup for library lookups (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram

?RCS: patch6: added default for libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
test cat Myread Oldconfig Loc libpth package xlibpth so _a \
usesocks sed uselongdouble

?MAKE: -pick add \$@ %<

?S:libs:

?S: This variable holds the additional libraries we want to use.

?S: It is up to the Makefile to deal with it. The list can be empty.

?S:.

?S:libsfound:

?S: This variable holds the full pathnames of the libraries

?S: we found and accepted.

?S:.

?S:libsfiles:

?S: This variable holds the filenames aka basenames of the libraries

?S: we found and accepted.

?S:.

?S:libsdirs:

?S: This
variable holds the directory names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:ignore_versioned_solibs:

?S: This variable should be non-empty if non-versioned shared
libraries (libfoo.so.x.y) are to be ignored (because they
cannot be linked against).

?S:.

?T:xxx yyy thislib thisdir libswanted libstyle

?D:libs="

?X:

?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
-lBSD, -lPW, and -lx only get used if there are unresolved
routines at link time. Usually, these are backwards compatibility
libraries, and may not be as reliable as the standard c library.

?X:

?X: The -lsocket -linet -lnsl order has been reported to be necessary
for at least one SVR4 implementation.

?X: -lc must proceed -lucb or -lbsd for most Solaris applications.

?X: -lc_s proceeds -lc so we pick up the shared library version, if
available.

?X:

?X: The ordering of c, posix, and cposix is a guess and almost

```

?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted=""
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs=""
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
'|') dflt="";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5
socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
libsfound=""
libsfiles=""
libsdirs=""
libspath=""
for thisdir in $libpth $xlibpth; do
test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
for thisdir in $libspath; do
xxx=""
if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p`

```

```

    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p`
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle="import"
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/$thislib.$so$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle="import"
fi
    if test ! -f "$xxx";
then
xxx=$thisdir/lib$thislib.$so
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib${thislib}_s$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/Slib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
    if $test -f "$xxx"; then
case "$libstyle" in
shared) echo "Found -l$thislib (shared)." ;;
static) echo "Found -l$thislib." ;;
*)     echo "Found -l$thislib ($libstyle)." ;;

```

```

esac
case " $dflt " in
*" -l$thislib "*);;
*)
dflt="$dflt -l$thislib"
libsfound="$libsfound $xxx"
yyy=`basename $xxx`
libsfiles="$libsfiles $yyy"
yyy=`echo $xxx|sed -e "s%/$yyy\\|$%%"`
case " $libsdirs " in
*" $yyy "*) ;;
*) libsdirs="$libsdirs $yyy" ;;
esac
;;
esac
break
fi
done
if $test ! -f "$xxx"; then
echo "No -l$thislib."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
'|") dflt='none';;
esac

$cat <<EOM

```

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well. Say "none" for none. The default list is almost always right.

EOM

```

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs='';;
*) libs="$ans";;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libs.U

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?RCS: \$Id\$

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?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS:

?X:

?X: This unit is just a quick shorthand for the compile command

?X: to be used in all the other metaconfig units.

?X:

?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs

?MAKE: -pick add \$@ %<

?LINT:define compile compile_ok

?V:compile compile_ok mc_file

?S:compile:

?S: This shell variable is used internally

by Configure to provide

?S: a convenient shorthand for the typical compile command, namely

?S: \$cc \$optimize \$ccflags \$ldflags -o \$1 \$1.c \$libs > /dev/null 2>&1

?S: Note that the output filename does not include the _exe

?S: extension. Instead we assume that the linker will be

?S: "helpful" and automatically appending the correct suffix.

?S: OS/2 users will apparently need to supply the -Zexe flag to

?S: get this behavior.

?S:

?S: To use this variable, say something like:

?S: echo 'int main() { exit(0); }' > try.c

?S: set try

?S: if eval \$compile; then

?S: echo "success" # and do whatever . . .

?S: else

?S: echo "failure" # and do whatever . . .

?S: fi

?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them

?S: in \$*, e.g.
 ?S: set try -DTRY_THIS_FLAG
 ?S:.
 ?S:compile_ok:
 ?S: This shell variable is used internally by Configure to provide
 ?S: a convenient shorthand for the typical compile command that you
 ?S: expect to work ok. It is the same as \$compile,
 except we
 ?S: deliberately let the user see any error messages.
 ?S:.
 : define a shorthand compile call
 compile='
 mc_file=\$1;
 shift;
 \$cc -o \${mc_file} \$optimize \$ccflags \$ldflags \$* \${mc_file}.c \$libs > /dev/null 2>&1;
 : define a shorthand compile call for compilations that should be ok.
 compile_ok='
 mc_file=\$1;
 shift;
 \$cc -o \${mc_file} \$optimize \$ccflags \$ldflags \$* \${mc_file}.c \$libs;'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Compile.U

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

?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in order

?X: to make quick check on whether the current C compiler is working.

?X:

?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test

?MAKE: -pick add \$@ %<

?S:ccname:

?S: This can set either by hints files or by Configure. If using

?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?

?S: Some platforms, however, make good use of this by storing the

?S: flavor


```

of the C compiler being used here. For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure. If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname="
?INIT:ccversion="
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
") ;;
*) $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
(void) argc;
(void) argv;
return 0;
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
:
else
echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
despair=yes
trygcc=yes
case "$cc" in
*gcc*) trygcc=no ;;
esac
case "$cc -v -c try.c 2>&1`" in
*gcc*) trygcc=no ;;
esac
if $test X"$trygcc" = Xyes; then
if gcc -o try -c try.c; then
echo " "
echo "You seem to have a working gcc, though." >&4

```

```

rp="Would you like to use it?"
dflt=y
if $test -f myread; then
    . ./myread
else
    if $test -f UU/myread; then
        . ./UU/myread
    else
        echo "Cannot find myread, sorry. Aborting." >&2
        exit 1
    fi
fi
case "$ans" in
[yY]*) cc=gcc; ccname=gcc; ccflags=""; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
    $cat *.cbu >checktmp 2>/dev/null
    if $contains ccflags checktmp >/dev/null; then

```

```

    ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM

```

```

        fi;;
    esac
fi
fi
fi
$rm -f try try.*
;;
esac
EOSC

```

: generate the checkcc script for later perusal

```

cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*) $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
    (void) argc;
    (void) argv;
    return 0;
}
EOM

```

```

if $cc -o try $ccflags $ldflags try.c; then
:
else
if $test X"$despair" = Xyes; then
echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
fi
$cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
exit 1
fi

$rm -f try try.*
;;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Checkcc.U

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?RCS:

?RCS: \$Log: libs.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram

?RCS: patch36: removed old broken thislib/thatlib processing (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram

?RCS: patch30: code cleanup with if/elif by ADO and RAM

?RCS: patch30: undone patch23 for libswanted default

setting

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram

?RCS: patch23: now includes ordered default libswanted variable (ADO)

?RCS: patch23: major cleanup for library lookups (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram

?RCS: patch6: added default for libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
test cat Myread Oldconfig Loc libpth package xlibpth so _a \
+usesocks sed +cc +ccflags +ldflags rm

?MAKE: -pick add \$@ %<

?S:libs:

?S: This variable holds the additional libraries we want to use.

?S: It is up to the Makefile to deal with it. The list can be empty.

?S:.

?S:libsfound:

?S: This variable holds the full pathnames of the libraries

?S: we found and accepted.

?S:.

?S:libsfiles:

?S: This variable holds the filenames aka basenames of the libraries

?S: we found and accepted.

?S:.

?S:libsdirs:

?S: This variable holds the directory
names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:libscheck:

?S: This variable is intended to be set by hint files, if needed.

?S: It should contain shell code that will be eval'ed with \$xxx holding

?S: some library file. It may change \$xxx if needed.

?S: For instance, on an Irix platform, you may make sure the right

?S: library file is used depending on the cc command line, so that the

?S: correct library is used depending on the selected ABI (for 32 and

?S: 64-bit compilations).

?S:

?S: Here is an example of code that could be found in a hint file on Irix

?S: when the selected compiler was for 32-bit -- that code is put in the

?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its

```

?S: flags have been chosen:
?S:
?S: libsccheck='case "$xxx" in
?S: *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$$.o;
?S: case "`/usr/bin/file $$.o`" in
?S: *N32*)
rm -f $$.o ;;
?S: *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S: esac ;;
?S: *) case "`/usr/bin/file $xxx`" in
?S: *N32*) ;;
?S: *) xxx=/no/n32$xxx ;;
?S: esac ;;
?S: esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time. Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libsccheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "

```

```

echo "Checking for optional libraries..." >&4
case "$libs" in
'|') dflt="";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
do
for thisdir in $libspath; do
xxx="
if test ! -f "$xxx" ; then
xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then
xxx=$thisdir/$thislib$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib${thislib}_s$_a

```

```

    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
fi
if test ! -f "$xxx"; then
xxx=$thisdir/Slib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test
-f "$xxx" && libstyle=static
fi
if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk. We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library. On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X: --RAM, 10/10/2003
?X:
if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
then
    linkmsg=""
else
    linkmsg=" but I can't link against it"
fi
case "$libstyle" in
shared) echo "Found -l$thislib (shared)$linkmsg." ;;
static) echo "Found -l$thislib$linkmsg." ;;
*)    echo "Found -l$thislib ($libstyle)$linkmsg." ;;
esac
case " $dflt " in
*" -l$thislib "*) ;;
*)
case "$linkmsg" in
")
dflt="$dflt -l$thislib"
libsfound="$libsfound $xxx"
yyy=`basename $xxx`
libsfiles="$libsfiles $yyy"
yyy=`echo $xxx|sed -e "s%/$yyy\\|%%"`
case " $libdirs
" in
    *" $yyy "*) ;;
    *) libdirs="$libdirs $yyy" ;;
esac
;;
esac
;;
esac
;;
esac

```

```

break
fi
done
if $test ! -f "$xxx"; then
    echo "No -l$thislib."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' ') dflt='none';;
esac
$rm -f lt.c lt

```

\$cat <<EOM

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well.

Say "none" for none. The default list is almost always right.

EOM

```

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libs.U

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?RCS:


```

?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
dflt='sl'
else
dflt='so'
fi
;;
*) dflt="$so";;
esac
$cat <<EOM

```

On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

```

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

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?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline. Otherwise it is null. Correct usage is
?S:   $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
    Otherwise it is null. Correct usage is
?S:   $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
    echo "...using -n."
    n='-n'
    c=""
else
    cat <<'EOM'
...using \c
EOM
n=""
c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $

```

```

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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
?S: links (if they are supported). It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:..
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
echo "Symbolic links are supported." >&4
lns="$ln -s"
else
echo "Symbolic links are NOT supported." >&4
lns="$ln"
fi
$rm -f blurfl sym

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Instruct.U,v \$
?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:04 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
This unit spew out the directions that we want everyone to read. I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe \$@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "\$user" in
") user=`whoami 2>&1`;;
esac
if \$contains "^\$user\$" ../.config/instruct >/dev/null 2>&1; then
firsttime=false
echo " "
rp='Would you like to see the instructions?'
dflt=n
. ./myread
case "\$ans" in
[yY]*) ;;
*) needman=false;;
esac
fi
if \$needman; then

```
cat <<EOH
```

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

EOH

```
rp="
dflt='Type carriage return to continue'
. ./myread
cat <<'EOH'
```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer will remain unchanged and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

EOH

```
. ./myread
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

?X: In case they played with the prompter...

```
dflt='Type carriage return to continue'
```

```
. ./myread
```

```
case "$firsttime" in
```

```
true) echo $user >>../.config/instruct;;
```

```
esac
```

```
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Instruct.U
```

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Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.tmpl
```

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```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
```

```
#
```

```
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
#
```

```
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```
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```

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```

```
# of the source tree for dist 4.0.
```

```
#
```

```
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
```

```
#
```

```
# $Log: errnolist.a,v $
```

```
# Revision 3.0 1993/08/18 12:04:35 ram
```

```
# Baseline for dist 3.0 netwide release.
```

```
#
```

```
#
```

```
# This is a simple-minded awk script to generate an initialization for
```

sys_errnolist on systems that don't have it.
This file now depends only on sys/errno.h error numbers under maxerr being
in order. It will complain and die if not. NOTE: It will still produce
a compilable output file, even with errors, so you must
check the output.

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.a

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extract.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script which can be doted in order to extract

?X: .SH files with variable substitutions.

?X:

?X: When running Configure from a remote directory (\$src
is not '.'),

?X: then the files will be created in that directory, so beware!

?X:

?MAKE:Extract: Mkdirp src

?MAKE: -pick add \$@ %<

?F:./extract

?T:CONFIG SRC dir file

: script used to extract .SH files with variable substitutions

cat >extract <<EOS

CONFIG=true

SRC="\$src"

EOS

cat >>extract <<'EOS'

```

echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
    set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH`
else
    echo "(Looking for .SH files under the source directory.)"
    set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
    shift
fi
for file in $*; do
    case "$SRC" in
".")
        case "$file" in
*/*)
            dir=`expr X$file : 'X\(.*)/'`
            file=`expr X$file : 'X.*\(.*)'`
            (cd $dir && . ./file)
            ;;
*)
                . ./file
            ;;
        esac
        ;;
    *)
        ?X:
        ?X: When running Configure remotely ($src is not '.'), we cannot source
        ?X: the files directly, since that would wrongly cause
        the extraction
        ?X: where the source lie instead of withing the current directory. Therefore,
        ?X: we need to 'sh <file' then, which is okay since they will source the
        ?X: existing config.sh file. It's not possible to use:
        ?X: ../src/Configure -S -O -Dsomething
        ?X: unfortunately since no new config.sh with the -Dsomething override
        ?X: will be created before running the .SH files. A minor buglet.
        ?X:
        ?X: Note that we must create the directory hierarchy ourselves if it does
        ?X: not exist already, and that is done through a shell emulation of the
        ?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
        ?X: symbol here since that would require too much to be configured for
        ?X: this simple extraction task that may happen quickly with 'Configure -S'.
        ?X: -- RAM, 18/03/96
        ?X:
        case "$file" in

```



```

*/)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\(.*)/'`
./mkdirp $dir
sh <"$SRC/$dir/$file"
;;
*)
sh <"$SRC/$file"
;;
esac
;;
esac
done
if
test -f "$SRC/config_h.SH"; then
if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
sh <"$SRC/config_h.SH"
fi
fi
EOS

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extract.U

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

?RCS: \$Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: contains.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:35 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:contains: Nothing

?MAKE: -pick add \$@ %<

?S:contains:

?S: This variable holds the command to do a grep with a proper return

?S: status. On most sane systems it is simply "grep". On insane systems

?S: it is a grep followed by a cat followed by a test. This variable

?S: is primarily for the use of other Configure units.

?S:.

```

: Some
  greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
  contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
  contains=grep
else
  contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
  echo " "
  echo "AGH! Grep doesn't return a status. Attempting remedial action."
  cat >contains <<'EOSS'
  grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
  EOSS
  chmod +x contains
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/contains.U

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

```

?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3 1994/10/29 16:22:50 ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:27:09 ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 15:06:01 ram
?RCS: patch23: added

```

```

trailing blank line for metalint
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer. It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
dflt=lex;;
*)
dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
rp='Which lexical analyser generator (lex or flex) shall I use?'
else
rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
in
none) lexflags="";;
*) lexflags="$ans";;
esac

@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lex.U

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

```
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
```

```

*) xxx=`./loc $xxx
  $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in

```

```

gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into
your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;"
*) n='-n' c="";;

```

```
esac
cat <<FOO
They are not compatible! You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
in and we may have to run some Bourne shell scripts. That
means I'll have to use '$n$c' to suppress newlines now. Life is ridiculous.
```

```
FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0 1993/08/18 12:04:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions. The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will be dropped, if using dynamic loading).
?S:.
?INIT:perllibs=
```

```

?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdn
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
    perllibs="$libs"
    ;;
*) case "$usedl" in
    $define|true|[yY]*)
        set X `echo " $libs " | sed -e 's@ -ldbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @`
        shift
        perllibs="$*"
        ;;
    *) perllibs="$libs"
        ;;
    esac
    ;;
esac

```

?X: If the user has the cppstdn wrapper, perl.c will try to call
 ?X: CPPSTDIN, but that will point to a location in the build
 ?X: directory, not the installed version!. Here, we'll just strip the
 ?X: name down to 'cppstdn',
 and rely on the fact that perl.c will
 ?X: then call SCRIPTDIR/cppstdn, but local things like 'make depend'
 ?X: will continue to work.

: Remove build directory name from cppstdn so it can be used from
 : either the present location or the final installed location.

```

echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdn" in
`pwd`/cppstdn)
    echo "Stripping down cppstdn path name"
    cppstdn=cppstdn
    ;;
esac
cd UU

```

: end of configuration questions
 echo " "
 echo "End of configuration questions."
 echo " "

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/End.U

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

?RCS: \$Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: shm_for.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:28:37 ram

?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:46 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname

?MAKE: -pick add \$@ %<

?S:shm_for:

?S: This variable tells us the type of machine we're expecting the

?S: shared memory code to run on. The value is available to C
programs

?S: in the C_SHM_FOR manifest.

?S:.

?S:shm_att:

?S: This variable tells us where a shared memory segment should be

?S: attached. Good values are HIGH, LOW, and ZERO.

?S:.

?S:shm_lim:

?S: This variable tells us if shared memory attached HIGH should

?S: have an upper limit.

?S:.

?X: -----

?X: It's a potential lose to define anything beginning with SHM...

?X: At least we can think that S_ stands for "String version of ..." -- HMS

?X: -----

?C:S_SHM_FOR ~ %<:

?C: This symbol identifies what we chose for the target system's

?C: default shared memory configuration parameters.

?C:.

?C:S_SHM_ATT ~ %<:

?C: This symbol holds the default "place" to attach shared memory.

?C: Values are "HIGH", "ZERO", and "LOW".

```

?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH. If zero, there is no upper limit.
?C:.
?H:%<:#ifdef
SERVE_SHM
?H:%<:#define S_SHM_FOR "$shm_for"
?H:%<:#define S_SHM_ATT "$shm_att"
?H:%<:#define S_SHM_LIM "$shm_lim"
?H:%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
shm_for='Default case'
shm_att='HIGH'
shm_lim='0x0'
if ./Cppsym tower32 tower32_600; then
echo "NCR Towers are usually normal..."
: echo "Oh, an NCR Tower."
: This works for the 600
shm_for='NCR Tower 32'
shm_att='LOW'
else
case "$uname" in
*/uname)
case "`uname -m`" in
ACS??68*)
echo "Oh, an Altos 3068."
shm_for='Altos 3068:'
shm_lim='0x800000'
;;
esac
;;
*)
echo "Looks normal to me..."
;;
esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
. ./myread

```

```

shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
. ./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
dflt="$shm_lim"
rp='What is
the upper address limit for shared memory?'
. ./myread
shm_lim="$ans"
;;
*)
shm_lim="
;;
esac
;;

*)
echo "but you aren't using shared memory so I won't bother." >&4
shm_for='NOT CONFIGURED'
shm_att='NONE'
shm_lim='-1'
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/shm_for.U

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

?RCS: \$Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef

val_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread

?MAKE: -pick add \$@ %<

?LINT:define typedef

?LINT:define typedef_ask

?V:typedef typedef_ask

?S:typedef:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. A typical use is:

?S: set typedef val_t default [includes]

?S: eval \$typedef

?S: That will return val_t set to default if the typedef was not found,

?S: to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

?S:typedef_ask:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. If it is not defined,

?S: this will call the ./myread script to prompt for an answer.

?S: It is intended to be used to avoid unnecessary prompts.

?S: A typical use is

?S: rp="What is the type for file position used by fsetpos()?"

?S: set fpos_t fpostype long stdio.h sys/types.h

?S: eval \$typedef_ask

?S: This

will set fpostype=fpos_t, if fpos_t is available. Otherwise

?S: it will call myread with a default of 'long', and a prompt of \$rp.

?S:.

?T:type var def inclist varval inc

?F:!temp.c

: define an is-a-typedef? function

typedef='type=\$1; var=\$2; def=\$3; shift; shift; shift; inclist=\$@;

case "\$inclist" in

"") inclist="sys/types.h";;

esac;

eval "varval=\\$\$var";

case "\$varval" in

```

""")
$rm -f temp.c;
for inc in $inclist; do
    echo "#include <$inc>" >>temp.c;
done;
?X: Maybe it's a #define instead of a typedef.
echo "#ifdef $type" >> temp.c;
echo "printf(\"We have $type\");" >> temp.c;
echo "#endif" >> temp.c;
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
if $contains $type temp.E >/dev/null 2>&1; then
    eval "$var=\$type";
else
    eval "$var=\$def";
fi;
$rm -f temp.?.;
*) eval "$var=\$varval";
esac'

```

?X: Originally, I eval'd \$typedef and then checked the results against

?X: \$type. Unfortunately, it then became complicated to check

?X: whether you are re-using

an old config.sh value, and the logic got

?X: so convoluted it became easier to just copy the function above

?X: and alter it slightly. A.D. 3/1998

: define an is-a-typedef? function that prompts if the type is not available.

```
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
```

```
case "$inclist" in
```

```
""") inclist="sys/types.h";;
```

```
esac;
```

```
eval "varval=\$${var}";
```

```
case "$varval" in
```

```
""")
```

```
$rm -f temp.c;
```

```
for inc in $inclist; do
```

```
    echo "#include <$inc>" >>temp.c;
```

```
done;
```

?X: Maybe it's a #define instead of a typedef.

```
echo "#ifdef $type" >> temp.c;
```

```
echo "printf(\"We have $type\");" >> temp.c;
```

```
echo "#endif" >> temp.c;
```

```
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
```

```
echo " " ;
```

```
echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
```

```
if $contains $type temp.E >/dev/null 2>&1; then
```

```
    echo "$type found." >&4;
```

```
    eval "$var=\$type";
```

```
else
```

```

echo "$type NOT found." >&4;
dflt="$def";
. ./myread ;
eval "$var=\$ans";
fi;
$rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: yacc.U,v \$

?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram

?RCS: patch27: added byacc as another alternative (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:10:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe

?MAKE: -pick add \$@ %<

?S:yacc:

?S: This variable holds the name of the compiler compiler we

?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.

?S:.

?S:yaccflags:

?S: This

variable contains any additional yacc flags desired by the

?S: user. It is up to the Makefile to use this.

?S:.

?T:comp

: determine compiler compiler

case "\$yacc" in

")

dflt=yacc;;

*)

```

dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
    dflt="$byacc"
    comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
    comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
./myread
yacc="$ans"
case "$yacc" in
    *bis*)
        case "$yacc" in
            *_y*) ;;
            *)
                yacc="$yacc -y"
                echo "(Adding -y option to bison to get yacc-compatible behavior.)"
                ;;
        esac
    ;;
esac
;;
esac
;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
    ") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

```

EOH
rp="Any additional yacc flags?"
./myread
case "$ans" in
    none) yaccflags="";;
    *) yaccflags="$ans";;
esac

```

@end

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/yacc.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:perladmin: cf_email Oldconfig Myread cat

?MAKE: -pick add \$@ %<

?Y:TOP

?S:perladmin:

?S: Electronic mail address of the perl5 administrator.

?S:.

: Ask e-mail of administrator

\$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM

case "\$perladmin" in

") dflt="\$cf_email";;

*) dflt="\$perladmin";;

esac

rp='Perl administrator e-mail address'

.. /myread

perladmin="\$ans"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perladmin.U

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

?RCS: \$Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:


```

?RCS: $Log: inc.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile us rinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question. It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
?S: expanded
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
dflt=`./loc . ." /usr/local/include /usr/include/local $usrinc`
;;
*) dflt="$inc"
;;
esac
fn=d~
rp="Where do you want to put the public header files?"
./getfile
inc="$ans"
incexp="$ansexp"

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/inc.U

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

```

?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

?RCS:

```

```

?RCS: You may redistribute only under the terms of the Artistic Licence,

```

```

?RCS: as specified in the README file that comes with the distribution.

```

```

?RCS: You may reuse parts of this distribution only within the terms of

```

```

?RCS: that same Artistic Licence; a copy of which may be found at the root

```

```

?RCS: of the source tree for dist 4.0.

```

```

?RCS:

```

```

?RCS: $Log: install.U,v $

```

```

?RCS: Revision 3.0.1.2 1995/09/25 09:16:37 ram

```

```

?RCS: patch59: all possible install programs are now looked for

```

```

?RCS:

```

```

?RCS: Revision 3.0.1.1 1995/01/11 15:30:41 ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
"$install" in
")
tryit="
for dir in $pth; do
for file in ginstall installbsd scoinst install; do
if $test -f $dir/$file; then
tryit="$tryit $dir/$file"
fi
done
done
$cat >try.c <<EOC
int main()
{
printf("OK\n");
exit(0);

```

```

}
EOC
if $cc -o try try.c >/dev/null 2>&1; then
    cp try try.ns
    strip try >/dev/null 2>&1
else
    echo "(I can't seem to compile a trivial C program -- bypassing.)"
    echo "try" >try
    cp try try.ns
fi
$cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\ $1 -d foo/bar
@end
$mkdir d
\ $1 -c -m 764 try.ns d
\ $1 -c -s -m 642 try.ns d/try
EOS
chmod +x tryinst
$eunicefix tryinst
dflt=""
either=""
for prog in $tryit; do
    $echo $n "Checking $prog... $c"
    ./tryinst $prog >/dev/null 2>&1
@if installdir
    if $test -d foo/bar; then
        creatdir="$prog -d"
    fi
@end
    (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
    if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
        $contains 'rwxrw-r--' tryno.ls && \
        \
        $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
    then
        dflt="$prog"
        echo "ok, that will do."
        break
    fi
    echo "not good$either."
    either=' either'
    $rm -f try*.ls
done
$rm -rf foo d tryinst try try*.ls try.*
case "$dflt" in

```

```

")
@if {test -f ../install.SH}
    echo "Hopefully, $package comes with its own install script!"
    dflt='../install'
@else
    dflt='install'
@end
;;
esac
;;
*) dflt="$install";;
esac
$cat <<EOM

```

I will be requiring a BSD-compatible install program (one that allows options like -s to strip executables or -m to specify a file mode) to install \$package.

If the question below contains a fully qualified default path, then it is probably ok. If it is an unqualified name such as 'install', then it means I was unable to find out a good install program I could use. If

```
@if {test -f ../install.SH}
```

you know of one, please tell me about it. If the default is '../install', then I shall be using the install script supplied with \$package.

```
@else
you know of one,
please tell me about it.
@end
```

```
EOM
@if {test -f ../install.SH}
fn='/fe~(install,../install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"
```

```
@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
$mkdir -p foo/bar >/dev/null 2>&1
```

```

if $test -d foo/bar; then
    echo "Great, we can build them using 'mkdir -p'."
    creatdir='mkdir -p'
else
    case "$creatdir" in
        ")
            if eval "$install -d foo/bar"; $test -d foo/bar; then
                creatdir="install -d"
                echo "It looks like '$creatdir' will do it for us."
            fi
            ;;
        *)
            eval "$creatdir foo/bar" >/dev/null 2>&1
            if $test -d foo/bar; then
                echo "Ah! We can use '$creatdir' to do just that."
            else
                creatdir="
            fi
            ;;
        esac
    fi
    $rm
    -rf foo
    case "$creatdir" in
        ")
            echo "Heck! Another ancient system lacking the comfort of modern ones!"
        @if { test -f ../install.SH}
            echo "You can thank $package for bringing you its own install script!"
            installdir='./install -d'
        @else
            echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
            installdir=mkdir
        @end
        ;;
        *) installdir="$creatdir";;
    esac
    ;;
    *) echo "As you already told me, '$installdir' should work.";;
esac

@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/install.U

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

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?RCS:

?RCS: \$Log: Filexp.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 15:52:53 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: added HOME to the ?T: line since metalint now checks \${HOME}

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:03:00 ram

?RCS: patch23: made sure error status from csh is propagated (WED)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:53 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script which will expand filenames beginning

?X:

with tildes. The script is deleted at the end of Configure.

?X:

?MAKE:Filexp: startsh sed test expr eunicefix

?MAKE: -pick add \$@ %<

?F:./filexp

?T:HOME LOGDIR dir me name failed

: set up shell script to do ~ expansion

cat >filexp <<EOSS

\$startsh

: expand filename

?X:

?X: The case entries below escape the ~ as some shells have shown expansion

?X: of the ~ during here-doc processing.

?X:

case "\$1" in

\~/*\|~)

echo \ \$1 | \$sed "s|~|\${HOME}-\${LOGDIR}|"

;;

\~*)

if \$test -f /bin/csh; then

/bin/csh -f -c "glob \ \$1"

failed=\ \$?

echo ""

exit \ \$failed

else

name=\ \$expr x\ \$1 : '.*\([^/*]*\)^\`

?X: C library but unimplemented.

?X:

?MAKE:lns: ln rm touch test

?MAKE: -pick add \$@ %<

?S:lns:

?S: This variable holds the name of the command to make

?S: symbolic links (if they are supported).

It can be used

?S: in the Makefile. It is either 'ln -s' or 'ln'

?S:.

: determine whether symbolic links are supported

echo " "

\$rm -f blurfl sym

\$touch blurfl

if \$ln -s blurfl sym > /dev/null 2>&1 && \$test -f sym; then

echo "Symbolic links are supported." >&4

lns="\$ln -s"

else

echo "Symbolic links are NOT supported." >&4

lns="\$ln"

fi

\$rm -f blurfl sym

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Ins.U

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?RCS: \$Id\$

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?RCS:

?RCS: \$Log: cf_who.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:28:50 ram

?RCS: patch61: new computation method avoiding use of temporary file

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:42:34 ram

?RCS: patch23: login name now computed the hard way

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:32 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Oldconfig dependency is there to ensure computation occurs after old values

?X: from config.sh have been loaded, so that we can supersede them.

?X:

?MAKE:cf_time

cf_by: date Oldconfig

?MAKE: -pick add \$@ %<

?S:cf_time:

?S: Holds the output of the "date" command when the configuration file was

?S: produced. This is used to tag both config.sh and config_h.SH.

?S:.

?S:cf_by:

?S: Login name of the person who ran the Configure script and answered the

?S: questions. This is used to tag both config.sh and config_h.SH.

?S:.

?LINT:change LC_ALL LANGUAGE

: who configured the system

?X: Ensure English date -- Jarkko Hietaniemi

cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; \$date 2>&1`

?X:

?X: Leave a white space between first two '(' for ksh. The sub-shell is needed

?X: on some machines to avoid the error message when logname is not found; e.g.

?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was

?X: not found. Sigh!

?X:

?X: Convex had a broken logname executable which returned a non-zero status,

?X: and that broke the previous:

?X: cf_by=`(logname) 2>/dev/null || whoami) 2>&1`

?X: Switch to emergency

mode... -- RAM, 19/04/94

?X:

?X: Parentheses needed to avoid error message if the program does not exist.

?X: Uses case instead of \$test so it can be put before \$test is defined.

?X: Don't redirect to a file because on Ultrix (under script?) logname

?X: outputs a blank line first. This method will apparently work.

```
case "$cf_by" in
"" )
cf_by=`(logname) 2>/dev/null`
case "$cf_by" in
"" )
cf_by=`(whoami) 2>/dev/null`
case "$cf_by" in
"" ) cf_by=unknown ;;
esac ;;
esac ;;
esac
```

Found in path(s):

* /perl-5.38.2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_who.U

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?RCS: \$Id\$

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?RCS:

?RCS: \$Log: Whoa.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram

?RCS: patch61: whoa script now starts with leading "startsh"

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:19 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to warn the user in case a change into a variable is noticed.

?X:

?X: To use this

unit, \$was must hold the old value that has changed. Upon

?X: exit, the two variables \$td and \$tu are set to the correct value for

?X: respectively defining or undefining a variable. For instance, if \$vas was

?X: \$undef, but now \$var is \$define, after calling . whoa, you should use

?X: eval "\$var=\$tu" to finally set \$var to the correct value. See unit Inlibc.

?X:

?MAKE:Whoa: Myread startsh hint

?MAKE: -pick add \$@ %<

?F:./whoa

?T:var was

?LINT:change td tu

: set up the script used to warn in case of inconsistency

cat <<EOS >whoa

\$startsh

EOS

cat <<'EOSC' >>whoa

dflt=y

echo " "

echo "*** WHOA THERE!!! ***" >&4

echo " The \$hint value for \"\$var on this machine was \"\$was\"!" >&4

rp=" Keep the \$hint value?"

```
./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Whoa.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \

Setprefixvar prefix siteprefix html1dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitehtml1dir="

?S:sitehtml1dir:

?S: This variable contains the name of the directory in which site-specific

?S: html source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After perl

has been installed, users may install their own local

?S: html pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitehtml1direxp="

?S:sitehtml1direxp:

?S: This variable is the same as the sitehtml1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsitehtml1dir="

?S:installsitehtml1dir:

?S: This variable is really the same as sitehtml1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: html1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

```

?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
    dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)    dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
./getfile
prefixvar=sitehtml1dir
./setprefixvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml1dir.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sysman.U,v \$

?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram

?RCS: patch30: now explicitly states that /usr/man/man1 is the default

?RCS: patch30: added /usr/local/man/man1 to the search list

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram

?RCS: patch10: added support for /local/man/man1 (WAD)

?RCS: patch10: added temporary syspath variable to cut down on line length

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:55 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

```
?MAKE:sysman: test
Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
syspath="/usr/share/man/man1 /usr/man/man1"
syspath="$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"
syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
sysman=`./loc . /usr/man/man1 $syspath`
;;
esac
if $test -d "$sysman"; then
echo "System manual is in $sysman." >&4
else
echo "Could not find manual pages in source form." >&4
fi
```

```
Found
in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: You may distribute under the terms of either the GNU General Public
```

```
Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigsetjmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```

?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
  Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
  the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages. Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

```

The installation process will also create a directory for vendor-supplied add-ons. Vendors who supply perl with their system may find it convenient to place all vendor-supplied files in this directory rather than in the main distribution directory. This will ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see fit. For example, you might use them to access modules shared over a company-wide network.

The default answer should be fine for most people.

This causes further questions about vendor add-ons to be skipped and no vendor-specific directories will be configured for perl.

EOM

```

rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
case "$vendorprefix" in
"|" ' ') dflt=n ;;
*) dflt=y ;;
esac
;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
rp='Installation prefix to use for vendor-supplied add-ons?'
case "$vendorprefix" in
") dflt="$prefix" ;;
*) dflt=$vendorprefix ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldvendorprefix="
case "$vendorprefix" in
") ;;
*) case "$ans" in
"$prefix") ;;
*) oldvendorprefix="$prefix";;
esac
;;
esac
usevendorprefix="$define"
vendorprefix="$ans"
vendorprefixexp="$sansexp"
;;
*) usevendorprefix="$undef"
vendorprefix="
vendorprefixexp="
;;
esac

```

Found in path(s):

*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorprefix.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Extractall.U,v \$
?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
Extract Options
?MAKE: -pick wipe \$@ %<
: extract files and exit if asked to do so
case "\$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
case "\$realsilent" in
true) ;;
*) exec 1>&4;;
esac
case "\$config_sh" in
") config_sh='config.sh';;
esac
echo " "
echo "Fetching answers from \$config_sh..."
cd ..
. \$config_sh
test "\$override" && . ./optdef.sh
echo " "
?X: extract has to be run from the top directory, not within UU.
. UU/extract
rm -rf UU
echo "Extraction done."
exit 0
;;
esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extractall.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libpth.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:08:49 ram

?RCS: patch61: new loclibpth variable

?RCS:

?RCS: Revision 3.0.1.5 1995/01/11 15:31:30 ram

?RCS: patch45: call ./mips instead of just mips (WED)

?RCS:

?RCS: Revision 3.0.1.4 1994/08/29 16:29:15 ram

?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)

?RCS: patch32: fixed information message, making it clearer (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:03:54 ram

?RCS: patch30: added /usr/shlib to
glibpth for shared-only libraries

?RCS:

?RCS: Revision 3.0.1.2 1994/05/13 15:26:57 ram

?RCS: patch27: fixed a typo (libpth -> glibpth)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:07:53 ram

?RCS: patch23: now asks for library directories to be searched (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit initializes the path for C library lookup.

?X:

?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
usrinc incpath test cat Myread Oldconfig

?MAKE: -pick add \$@ %<

?S:libpth:

?S: This variable holds the general path (space-separated) used to find

?S: libraries. It is intended to be used by other units.

?S:.

?S:glibpth:
 ?S: This variable holds the general path (space-separated) used to
 ?S: find libraries. It may contain directories that do not exist on
 ?S: this platform, libpth is the cleaned-up version.
 ?S:.
 ?S:xlibpth:
 ?S: This variable holds extra path (space-separated) used to find
 ?S: libraries on this platform,
 for example CPU-specific libraries
 ?S: (on multi-CPU platforms) may be listed here.
 ?S:.
 ?S:loclibpth:
 ?S: This variable holds the paths (space-separated) used to find local
 ?S: libraries. It is prepended to libpth, and is intended to be easily
 ?S: set from the command line.
 ?S:.
 ?S:plibpth:
 ?S: Holds the private path used by Configure to find out the libraries.
 ?S: Its value is prepend to libpth. This variable takes care of special
 ?S: machines, like the mips. Usually, it should be empty.
 ?S:.
 ?T: xxx dlist
 ?LINT:use usrinc
 ?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
 ?INIT:xlibpth="/usr/lib/386 /lib/386"
 ?INIT:: Possible local library directories to search.
 ?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
 ?INIT:loclibpth="\$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
 ?INIT:
 ?INIT:: general looking path for locating libraries
 ?INIT:glibpth="/lib /usr/lib \$xlibpth"
 ?INIT:glibpth="\$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
 ?X: /shlib
 is for Digital Unix 4.0
 ?X: /usr/shlib is for OSF/1 systems.
 ?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib \$glibpth"
 ?INIT:test -f /shlib/libc.so && glibpth="/shlib \$glibpth"
 ?INIT:
 ?INIT:: Private path used by Configure to find libraries. Its value
 ?INIT:: is prepended to libpth. This variable takes care of special
 ?INIT:: machines, like the mips. Usually, it should be empty.
 ?INIT:plibpth="
 ?INIT:
 : Set private lib path
 case "\$plibpth" in
 ") if ./mips; then
 ?X: on mips, we DO NOT want /lib, and we want \$incpath/usr/lib
 plibpth="\$incpath/usr/lib /usr/local/lib /usr/ccs/lib"

```

fi;;
esac
case "$libpth" in
' ') dlist="";
") dlist="$loclibpth $plibpth $glibpth";
*) dlist="$libpth";
esac

```

: Now check and see which directories actually exist, avoiding duplicates

```

libpth=""
for xxx in $dlist
do
    if $test -d $xxx; then
        case " $libpth " in
        *" $xxx "*) ;;
        *) libpth="$libpth $xxx";
        esac
    fi
done
$cat <<'EOM'

```

Some systems have incompatible or broken versions of libraries. Among the directories listed in the question below, please remove any you know not to be holding relevant libraries, and add any that are needed. Say "none" for none.

```

EOM
case "$libpth" in
") dflt='none';
*)
?X: strip leading space
set X $libpth
shift
dflt=${1+"$@"}
;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';
*) libpth="$ans";
esac

```

Found in path(s):

```

* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
package test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put. This directory is for pages
?S: that describe whole programs, not libraries or modules. It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix. For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

```

If you wish to install html files for programs in \$spackage, indicate the appropriate directory here. To skip installing html files, answer "none".

EOM

```

case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $package html pages?"
./getfile
prefixvar=html1dir
./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html1dir.U

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

/*

* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

*

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*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: setsid.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:47 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/setsid.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS: patch61: added support for HPUX-10 nm output

?RCS:

?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram

?RCS: patch54: made sure only most recent version of shared lib is picked

?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody

?RCS: patch54: can now grok
linux nm output with lead __IO (ADO)

?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)

?RCS:

?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram

?RCS: patch36: now looks for shared libraries before anything else (ADO)

?RCS: patch36: added new nm output format (ADO)

?RCS:

?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram

?RCS: patch32: added I-type symbols for nm output parsing on Linux

?RCS:

?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram

?RCS: patch30: checks are now presented by succession of if/elif

?RCS: patch30: uniformized checks for shared objects with new so symbol

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram

?RCS: patch23: added shared library knowledge (ADO and WED)

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram

?RCS: patch16: can now export nm_extract as an internal-use only variable

?RCS:

?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram

?RCS: patch10: added special handling for Apollo systems (WAD)

?RCS:

?RCS: Revision 3.0.1.1
1993/08/27 14:40:03 ram

?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
contains xlibpth so osname trnl tr sort uniq _o _a

?MAKE: -pick add \$@ %<

?S:libc:

?S: This variable contains the location of the C library.

```

?S:.
?S:libnames:
?S: The constructed list of library names. Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=""
: Figure out where the libc is located
case
"$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
case "$libs" in
*-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
esac
;;
esac
case "$libs" in
") ;;
*) for thislib in $libs; do
case "$thislib" in
-lc|-lc_s)
: Handle C library specially below.
;;
-l*)
thislib=`echo $thislib | $sed -e 's/^-l//`
if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib X $libpth`; $test -f "$try"; then

```

```

:
elif try=`./loc $lib$thislib$_a X $xlibpth`; $test -f "$try"; then
:
else
  try=""
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib"
;;
esac
done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
?X: from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
set /lib/libc.$so
for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
: The messy sed command sorts on library version numbers.
$test -r $1 || \
  set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
  tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
  h
  s/[0-9][0-9]*0000&/g
  s/0*\([0-9][0-9][0-9][0-9]\)/\1/g
  G

```



```

s/\n/ '/' | \
$sort | $sed -e 's/^.*/'^
eval set \$$#
done
$test -r $1 || set /usr/ccs/lib/libc.$so
$test -r $1 || set /lib/libsys_s$_a
;;
*)
?X: ensure the test below for the (shared) C library will fail
set blurfl
;;
esac
if $test -r "$1"; then
echo "Your (shared) C library seems to be in $1."
libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
echo
"Your C library seems to be in both /lib/clib and /lib/libc."
xxx=apollo
libc='/lib/clib /lib/libc'
if $test -r /lib/syslib; then
echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
libc="$libc /lib/syslib"
fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
libc=$incpath/usr/lib/libc$_a;
echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
libc=/lib/libc$_a;
echo "Your C library seems to be in $libc. You're normal."
else
if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
:
elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
libnames="$libnames " `./loc clib blurfl/dyick $libpth`
elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
:
elif tans=`./loc Slibc$_a blurfl/dyick
$plibpth`; $test -r "$tans"; then
:

```

```

elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
:
else
tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
fi
if $test -r "$tans"; then
echo "Your C library seems to be in $tans, of all places."
libc=$tans
else
libc='blurfl'
fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
dflt=""
echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM
$sed 's/^/ /' libpath
cat <<EOM

```

None of these seems to contain your C library. I need to get its name...

```

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
$# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "

```

```
$sed 's/^/ ' libnames >&4
```

```
echo " "
```

```
$echo $n "This may take a while...$c" >&4
```

?X:

?X: Linux may need the special Dynamic option to nm for shared libraries.

?X: In general, this is stored in the nm_so_opt variable.

?X: Unfortunately, that option may be fatal on non-shared libraries.

?X:

```
for file in $*; do
```

```
case $file in
```

```
*$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
```

```
*) $nm $nm_opt $file 2>/dev/null;;
```

```
esac
```

```
done >libc.tmp
```

```
$echo $n ".$c"
```

?X:

?X: To accelerate processing, we look at the correct 'sed' command

?X: by using a small subset of libc.tmp, i.e. fprintf function.

?X: When we know which sed command to use, do the name extraction

?X:

```
$grep fprintf libc.tmp > libc.ptf
```

?X:

?X: In order to enhance readability and save some space, we define

?X: some variables that will be "eval"ed.

?X:

```
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
```

```
xrun='eval
```

```
"<libc.tmp $com >libc.list"; echo "done." >&4'
```

?X: BSD-like output, I and W types added for Linux

?X: Some versions of Linux include a leading __IO in the symbol name.

?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has

?X: BSD-like output. (AD).

```
xxx='[ADTSIW]'
```

```
if com="$sed -n -e 's/___IO//' -e 's/^. *$xxx *_[.]*//p' -e 's/^. *$xxx *//p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

?X: SYSV-like output

```
elif com="$sed -n -e 's/^__ *//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*\1/p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^. *|__ *//p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```

elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^([a-zA-Z_0-9]*).*xtern.*text.*\1/p'";\
eval
$xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*//p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
-e '/ file/d' -e 's/^([ ])*.*\1/p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*//p' -e 's/^.*|FUNC |WEAK .*//p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__/' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| .*//p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$\\1/p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null
2>&1; then
eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_([.]*)=.*\1/p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/.*\text n\\ \\ ./p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: AIX nm output
elif com="$sed -n -e 's/^__.*// -e 's/[ ]*D[ ]*[0-9]*.*//p'";\
eval $xscan;\

```

```

$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
else
    $nm -p $* 2>/dev/null >libc.tmp
    $grep fprintf libc.tmp > libc.ptf
    if com="$sed -n -e 's/^.* [ADTSIW] *[_.]*/p' -e 's/^.* [ADTSIW] //p';\
    eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
    then
        nm_opt='-p'
        eval $xrun
    else
        echo " "
        echo "$nm didn't seem to work right. Trying $ar instead..." >&4
        com="
    if $ar t $libc > libc.tmp && \
        $contains '^fprintf$' libc.tmp >/dev/null 2>&1
    then
        for thisname in $libnames $libc; do
            $ar t $thisname >>libc.tmp
        done
        $sed
    -e "s/\\$_o\\$/"/ < libc.tmp > libc.list
        echo "Ok." >&4
        elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
        for thisname in $libnames $libc; do
            $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries. Use emximp which will extract exactly them.
            emximp -o tmp.imp $thisname \
                2>/dev/null && \
                $sed -e 's/^([_a-zA-Z0-9]*) .*/1/p' \
                < tmp.imp >>libc.tmp
            $rm -f tmp.imp
        done
        $sed -e "s/\\$_o\\$//" -e 's/^ |+/ < libc.tmp > libc.list
        echo "Ok." >&4
    else
        echo "$ar didn't seem to work right." >&4
        echo "Maybe this is a Cray...trying bld instead..." >&4
        if
            bld t $libc | \
                $sed -e 's/.*/\n/' -e "s/\\$_o:.*/\n/" > libc.list &&
            $test -s libc.list
        then
            for thisname in $libnames; do
                bld t $libnames | \
                    $sed -e 's/.*/\n/' -e "s/\\$_o:.*/\n/" >>libc.list

```

```

$ar t $thisname >>libc.tmp
done
echo
"Ok." >&4
else
echo "That didn't work either." >&4
echo "No problem, I'll be compiling test programs then..." >&4
runnm=false
fi
fi
fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
echo " "
echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
$sed -n 's/^\([^ ]*\)[ ]*syscall[0-9]*[ ]*$/\1/p' \
/lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libc.U

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

```

?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:12 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:..

```

: Initialize h_fcntl

h_fcntl=false

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_fcntl.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \

Setprefixvar prefix siteprefix man1dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:siteman1dir="

?S:siteman1dir:

?S: This variable contains the name of the directory in which site-specific

?S: manual source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After perl

has been installed, users may install their own local

?S: man1 pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:siteman1direxp="

?S:siteman1direxp:

?S: This variable is the same as the siteman1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsiteman1dir="

?S:installsiteman1dir:

?S: This variable is really the same as siteman1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installsiteman1dir

```
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
") dflt=`echo $man1dir | $sed "s^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"| ' ) dflt=none ;;
esac
fn=dn+~
rp='Pathname
where the site-specific manual pages should be installed?'
./getfile
prefixvar=siteman1dir
./setprefixvar
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman1dir.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>

?RCS:

?RCS: \$Log: Findhdr.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 15:53:08 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:03:56 ram

?RCS: patch23: cppminus must be after other cppflags, not before

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:54 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a findhdr script which is used to locate the header

?X: files

in \$usrinc or other stranger places using cpp capabilities. The

?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'


```

?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
  cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:..
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
  directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
  testaccess=-e
?X: VOS: path component separator is >
  cppfilter="tr '\\\\>' '/' |"
  ;;
*)
  testaccess=-r
  cppfilter="
  ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[ ]*#. *stdio.h' | \
while read cline; do
  pos=1
  set \ $cline
  while $test \ $# -gt 0; do
    if $test $testaccess \ `echo \ $1 | $tr -d ""`; then
      echo "\ $pos"
      exit 0
    fi
    shift
    pos=\`expr \ $pos + 1\`
  done

```

```

done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="$${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

```

?X: To locate a header file, we cannot simply check for \$usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you Next!

: locate header file

```

$cat
>findhdr <<EOF
$startsh
wanted=$1
name=""
for usrincdir in $usrinc; do
if test -f \${usrincdir}/${wanted}; then
echo "\${usrincdir}/${wanted}"
exit 0
fi
done
awkprg='{ print \${fieldn }'
echo "#include <\${wanted}>" > foo\${$.c
$cppstdin $cppminus $cppflags < foo\${$.c 2>/dev/null | \
$cppfilter $grep "^[ ]*#.*\${wanted}" | \
while read cline; do
name=`echo \${cline} | $awk "\${awkprg}" | $tr -d ""`
case "\${name}" in
*[/\\\\]\${wanted}) echo "\${name}"; exit 1;;
*[/\\\\]\${wanted}) echo "\${name}"; exit 1;;
*) exit 2;;
esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=$?
$rm -f foo\${$.c
if test \${status} -eq 1; then
exit 0

```

```
fi
exit 1
EOF
chmod +x findhdr
$unicefix findhdr
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Findhdr.U

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

?RCS: \$Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: contains.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:35 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:contains: Nothing

?MAKE: -pick add \$@ %<

?S:contains:

?S: This variable holds the command to do a grep with a proper return

?S: status. On most sane systems it is simply "grep". On insane systems

?S: it is a grep followed by a cat followed by a test. This variable

?S: is primarily for the use of other Configure units.

?S:.

: Some

greps do not return status, grrr.

echo "grimblepritz" >grimble

if grep blurfldyick grimble >/dev/null 2>&1 ; then

contains=contains

elif grep grimblepritz grimble >/dev/null 2>&1 ; then

contains=grep

else

contains=contains

fi

rm -f grimble

: the following should work in any shell

case "\$contains" in

contains*)

echo " " >&4

echo "AGH! Grep doesn't return a status. Attempting remedial action." >&4

```

cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/contains.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: man3dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man3 used instead of man everywhere.

?X: I then added various tests because perl5 has *lots* of man3

?X: pages with long file names. -- ADO

?X:

?MAKE:man3dir

man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \

sed man1dir spackage package Getfile prefix Prefixit Prefixup \

d_flexfnam privlib Myread

?MAKE: -pick add \$@ %<

?Y:TOP

?S:man3dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?S:man3direxp:

?S: This variable is the same as the man3dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?S:installman3dir:

?S: This variable is really the same as man3direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man3direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man3ext:

?S: This variable contains the extension that the manual
page should

?S: have: one of 'n', 'l', or '3'. The Makefile must supply the 'l'.

?S: See man3dir.

?S:.

: determine where library module manual pages go

set man3dir man3dir none

eval \$prefixit

\$cat <<EOM

\$spackage has manual pages for many of the library modules.

EOM

case "\$nroff" in

nroff)

\$cat <<'EOM'

However, you don't have nroff, so they're probably useless to you.

EOM

case "\$man3dir" in

") man3dir="none";;

esac;;

esac

case "\$d_flexfnam" in

undef)

\$cat <<'EOM'

However, your system can't handle the long file names like File::Basename.3.

EOM

case "\$man3dir" in

") man3dir="none";;

esac;;

esac

echo "If you don't want the manual sources installed, answer 'none'."

?X: We don't use /usr/local/man/man3 because some man programs will

?X: only show the /usr/local/man/man3 contents, and not the system ones,

?X: thus man less will show the perl module less.pm, but not the system

?X: less command. We might also conflict with TCL man pages.

?X: However, something like /opt/perl/man/man3

```

is fine.
case "$man3dir" in
") case "$prefix" in
*$package*) dflt=`echo $man1dir |
  $sed -e 's/man1/man3/g' -e 's/man\./man\./g'` ;;
*) dflt="$privlib/man/man3" ;;
esac
;;
') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
./getfile
if test "X$man3direxp" != "X$ansexp"; then
installman3dir="
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
installman3dir=";;
esac
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installman3dir" in
") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#`";;
*) dflt="$installman3dir";;
esac
fn=de~
rp='Where will man pages be installed?'
./getfile
installman3dir="$ans"
else
installman3dir="$man3direxp"
fi

: What suffix

```

to use on installed man pages

```
case "$man3dir" in
' ')
man3ext='0'
;;
*)
rp="What suffix should be used for the $package library man pages?"
case "$man3ext" in
") case "$man3dir" in
*3) dflt=3 ;;
*3p) dflt=3p ;;
*3pm) dflt=3pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L3) dflt=L3;;
*) dflt=3;;
esac
;;
*) dflt="$man3ext";;
esac
. ./myread
man3ext="$ans"
;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man3dir.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef val_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef:

cppstdin cppminus cppflags rm contains Oldconfig

?MAKE: -pick add \$@ %<

?F:!temp.c

?LINT:define typedef

?V:typedef

?S:typedef:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. A typical use is:

?S: set typedef val_t default [includes]

?S: eval \$typedef

?S: That will return val_t set to default if the typedef was not found,

?S: to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

?T:type var def inclist varval inc

: define an is-a-typedef? function

typedef='type=\$1; var=\$2; def=\$3; shift; shift; shift; inclist=\$@;

case "\$inclist" in

"") inclist="sys/types.h";;

esac;

eval "varval=\\$\$var";

case "\$varval" in

"")

\$rm -f temp.c;

for inc in \$inclist; do

echo "#include <\$inc>" >>temp.c;

done;

\$cppstdin \$cppflags \$cppminus < temp.c >temp.E 2>/dev/null;

if \$contains \$type temp.E >/dev/null 2>&1; then

eval "\$var=\\$type";

else

eval "\$var=\\$def";

fi;

\$rm -f temp.?;;

*) eval


```
"$var=\$varval";;  
esac'
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Typedef.U
```

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

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: Inlibc.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/10/29 15:55:08 ram
```

```
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:05:03 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?X:
```

```
?X: This unit checks for the definition of a given function.
```

```
?X:
```

```
?X: To use it, say:
```

```
?X: set function d_func
```

```
?X: eval $inlibc
```

```
?X:
```

```
?MAKE:Inlibc: Csym Whoa Oldconfig
```

```
?MAKE: -pick add $@ %<
```

```
?LINT:define inlibc
```

```
?V:inlibc
```

```
?S:inlibc:
```

```
?S: This
```

```
shell variable is used internally by Configure to check
```

```
?S: wether a given function is defined or not. A typical use is:
```

```
?S: set function d_func
```

```
?S: eval $inlibc
```

```
?S: That will print a message, saying wether function was found or
```

```
?S: not and set d_func accordingly.
```

```
?S:.
```

```
?T:was tx sym tres td tu var
```

```
: define an is-in-libc? function
```

```
inlibc='echo " "; td=$define; tu=$undef;
```

```
sym=$1; var=$2; eval "was=\$2";
```

```

tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
set $sym tres -f;
eval $csym;
case "$tres" in
true)
echo "$sym() found." >&4;
case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
*)
echo "$sym() NOT found." >&4;
case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
esac;;
*)
case "$was" in
$define) echo "$sym() found." >&4;;
*) echo "$sym() NOT found." >&4;;
esac;;
esac'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inlibc.U

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

?RCS: \$Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Setvar.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 15:58:28 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:16 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a variable that is intended to be eval'ed in

?X: order to define/undefine a symbol. A consistency check is made

?X: regarding any previous value and a warning is issued if there
 ?X: is any discrepancy.
 ?X:
 ?X:
 To use it, say:
 ?X: val=<value>
 ?X: set d_variable
 ?X: eval \$setvar
 ?X:
 ?MAKE:Setvar: Whoa
 ?MAKE: -pick add \$@ %<
 ?LINT:define setvar
 ?S:setvar:
 ?S: This shell variable is used internally by Configure to set a value
 ?S: to a given symbol that is defined or not. A typical use is:
 ?S: val=<value computed>
 ?S: set d_variable
 ?S: eval \$setvar
 ?S: That will print a message in case the \$val value is not the same
 ?S: as the previous value of \$d_variable.
 ?S:.
 ?V:setvar:val
 ?T:var was td tu
 : function used to set '\$1' to '\$val'
 setvar='var=\$1; eval "was=\\$1"; td=\$define; tu=\$undef;
 case "\$val\$was" in
 \$define\$undef) . ./whoa; eval "\$var=\\$td";;
 \$undef\$define) . ./whoa; eval "\$var=\\$tu";;
 *) eval "\$var=\$val";;
 esac'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Setvar.U

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

?RCS: \$Id: html3dir.U,v \$
 ?RCS:
 ?RCS: Copyright (c) 1999 Andy Dougherty
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic License,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic License; a copy of which may be found at the root
 ?RCS: of the source tree for dist 3.0.
 ?RCS:
 ?RCS: \$Log: html3dir.U,v \$
 ?RCS:
 ?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \

```

$package test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put. This directory is for pages
?S: that describe libraries or modules. It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp="
?S:html3direxp:
?S: This variable
?S: is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir="
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix. For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

```

If you wish to install html files for modules associated with \$package, indicate the appropriate directory here. To skip installing html files, answer "none".

EOM

: There is no obvious default. If they have specified html1dir, then
: try to key off that, possibly changing ../html1 into ../html3.

case "\$html3dir" in

*) html3dir=`echo "\$html1dir" | \$sed 's/1\$/3\$/'` ;;

*) dflt=\$html3dir ;;

esac

fn=dn+~

rp="Directory for the \$package module
html pages?"

./getfile

prefixvar=html3dir

./setprefixvar

: Use ' ' for none so value is preserved next time through Configure

\$test X"\$html3dir" = "X" && html3dir=' '

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html3dir.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Myinit.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:47:29 ram

?RCS: patch44: leading comment states this unit comes before option processing

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: If you want to initialize any default values, copy this unit to your

?X: personal U directory and add the assignments to the end. This file

?X: is included after variables are initialized but before any old

?X: config.sh file is read in and before

any Configure switch processing.

?X:

?MAKE:Myinit: Init

?MAKE: -pick add \$@ %<

?LINT: nocomment

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myinit.U

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

?RCS: \$Id: Hasproto.U \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasproto string that is used internally

?X: by Configure to check if this system has a prototype for a

?X: particular function

?X:

```
?X: To use it, say something like:
?X: set d_getnetent_proto getnetent $i_netdb netdb.h
?X: eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X: $i_systime sys/time.h
?X: $i_sysselect sys/select.h
?X: $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
```

```
?X: There is also an 'escape' hatch built in. If you have a pair
?X: of args 'literal 'stuff' then 'stuff' gets included literally
?X: into the test program. See Protochk.U for more details.
?X:
```

```
?MAKE:Hasproto:
Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
case "$1" in
$define) echo "#include <$2>;";
literal) echo "$2" ;;
esac ;
shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
echo "$func() prototype found.";
val="$define";
else
echo "$func() prototype NOT found.";
val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>

?RCS: Merged into dist by Andy Dougherty July 13, 1998

?RCS:

?MAKE:trnl: Nothing

?MAKE: -pick add \$@ %<

?S:trnl:

?S: This variable contains the value to be passed to the tr(1)

?S: command to transliterate a newline. Typical values are

?S: '\012' and '\n'. This is needed for EBCDIC systems where

?S: newline is not necessarily '\012'.

?S:.

?T: DJGPP

: Find the appropriate value for a newline for tr

?X: We can't

use \$tr since that would cause a circular dependency via Myread

?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the

?X: tr command. I don't know why it passes the '\n' test but later

?X: refuses to work correctly with it. --AD 6/14/98

if test -n "\$DJGPP"; then

trnl='\012'

fi

if test X"\$trnl" = X; then

case "`echo foo | tr '\n' x 2>/dev/null`" in

foox) trnl='\n' ;;

esac

fi

if test X"\$trnl" = X; then

case "`echo foo | tr '\012' x 2>/dev/null`" in

foox) trnl='\012' ;;

esac

fi

if test X"\$trnl" = X; then

case "`echo foo | tr '\r\n' xy 2>/dev/null`" in

fooxy) trnl='\n\r' ;;

esac

fi

if test X"\$trnl" = X; then

cat <<EOM >&2

\$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM

exit 1

fi

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/trnl.U

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

?RCS: \$Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Rcs.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:15 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This is a unit that helps people who write SH scripts and keep them under

?X: RCS, but don't think to protect the \$Log and other \$Id keywords from

?X: variable substitution (or people like me who do not like to).

?X:

?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig

?MAKE: -pick weed \$@ %<

?LINT:describe Author

Date Header Id Locker Log RCSfile Revision Source State

: preserve RCS keywords in files with variable substitution, grrr

?Author:Author='\$Author'

?Date:Date='\$Date'

?Header:Header='\$Header'

?Id:Id='\$Id'

?Locker'

?Log:Log='\$Log'

?RCSfile:RCSfile='\$RCSfile'

?Revision:Revision='\$Revision'

?Source:Source='\$Source'

?State:State='\$State'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Rcs.U

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

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:56 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question. It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:)"
?X: dflt=`./loc . ." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
```

```
?X: ;;
?X:*) dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 14:56:35 ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2 1995/01/30 14:25:08 ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/31 09:32:20 ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
?X: of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."
```

?X: Make sure the rm below is given a non-empty list for some systems.

?X: This is run only when within the UU directory, hence we can safely

?X: attempt to rm a non-existent 'X' file...

trap 'echo " "; test -d ../UU && rm -rf X \$rmlist; exit 1' 1 2 3 15

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Begin.U

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

?RCS: \$Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1996-1999, Andy Dougherty

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: man3dir.U,v \$

?RCS: Revision 3.1 1999/07/08 20:52:19 doughera

?RCS: Updated for perl5.005_5x

?RCS:

?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram

?RCS: patch61: created

?RCS:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man3 used instead

of man everywhere.

?X: I then added various tests because perl5 has *lots* of man3

?X: pages with long file names. -- ADO

?X:

?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \

sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \

d_flexfnam privlib Myread test

?MAKE: -pick add \$@ %<

?Y:TOP

?D:man3dir="

?S:man3dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

```

?D:man3direxp="
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir="
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
?S: points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'. The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdfmt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

```

\$spackage has manual pages for many of the library modules.
EOM

```

case "$nroff" in
nroff)
$cat <<'EOM'

```

However, you don't have nroff, so they're probably useless to you.

EOM

```

case "$man3dir" in
") man3dir="none";;
esac;;
esac

```

```

case "$d_flexfnam" in
undef)
$cat <<'EOM'

```

However, your system can't handle the long file names like File::Basename.3.

EOM

```

case "$man3dir" in
") man3dir="none";;
esac;;
esac

```

echo "If you don't want the manual sources installed, answer 'none'."

?X: In 5.005_57 and earlier, I had the following notes:

?X:

We do not use /usr/local/man/man3 because some man programs will

?X: only show the /usr/local/man/man3 contents, and not the system ones,

?X: thus man less will show the perl module less.pm, but not the system

?X: less command. We might also conflict with Tcl man pages.

?X: However, something like /opt/perl/man/man3 is fine.

?X:

?X: However, opinion seems to be shifting such that 'man POSIX' ought

?X: to just work. -- Andy Dougherty July 8, 1999

?X:

?X: remove any trailing -3.0 or other version indication from \$package

prog=`echo \$package | \$sed 's/-*[0-9.]*\$/^`

case "\$man3dir" in

") dflt=`echo "\$man1dir" | \$sed -e 's/man1/man3/g' -e 's/man\1/man\3/g`

if \$test -d "\$privlib/man/man3"; then

cat <<EOM >&4

WARNING: Previous versions of perl installed man3 pages into

\$privlib/man/man3. This version will suggest a

new default of \$dflt.

EOM

tdflt=\$dflt

dflt='n'

rp='Do you wish to preserve the old behavior?(y/n)'

. ./myread

case "\$ans" in

y*) dflt="\$privlib/man/man3"

;;

*) dflt=\$tdflt ;;

esac

fi

;;

*) dflt="\$man3dir" ;;

esac

case "\$dflt" in

' ') dflt=none ;;

esac

echo " "

fn=dn+~

rp="Where do the \$package library man pages (source) go?"

. ./getfile

prefixvar=man3dir

. ./setprefixvar

case "\$man3dir" in

```

") man3dir=' '
installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
man3ext='0'
;;
*)
rp="What suffix should be used for the $package library man pages?"
case "$man3ext" in
") case "$man3dir" in
*3) dflt=3 ;;
*3p) dflt=3p ;;
*3pm) dflt=3pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L3) dflt=L3;;
*) dflt=3;;
esac
;;
*) dflt="$man3ext";;
esac
. ./myread
man3ext="$ans"
;;
esac

```

Found in path(s):

* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man3dir.U

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

```

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $

```

- * Revision 3.0.1.7 2004/08/22 08:28:58 ram
- * patch71: random cleanup
- *
- * Revision 3.0.1.6 1997/02/28 14:56:01 ram
- * patch61: now handles USRINC for dependencies
- * patch61: smarter about dependencies computation
- *
- * Revision 3.0.1.5 1995/09/25 09:07:19 ram
- * patch59: smarter sed command to strip /usr/include dependencies
- *
- * Revision 3.0.1.4 1995/07/25 13:33:59 ram
- * patch56: install of script man pages can now cope with missing files
- * patch56: the clobber
- target now removes the .config directory as well
- *
- * Revision 3.0.1.3 1995/03/21 08:35:28 ram
- * patch52: suppressed extra argument to NormalProgramTarget call
- *
- * Revision 3.0.1.2 1995/01/11 14:49:55 ram
- * patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
- * patch45: directory installation is now made via INSTALLDIR (Configure)
- *
- * Revision 3.0.1.1 1994/10/29 15:46:30 ram
- * patch36: added RemoteDependency rule
- *
- * Revision 3.0 1993/08/18 12:04:14 ram
- * Baseline for dist 3.0 netwide release.
- *
- */

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.rules

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

?RCS: \$Id: sitebin.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sitebin.U,v \$

?RCS:

?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \

Setprefixvar siteprefix

```

?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin="
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
    in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitebinexp="
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin="
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
../getfile
prefixvar=sitebin
../setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty

```



```

?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versiononly: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versiononly
?Y:TOP
?S:versiononly:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
are not installed
?S: (see INSTALL for a more complete list). Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac

```

set versiononly

eval \$setvar

```
case "$versiononly" in
"$define") inc_version_list="
    inc_version_list_init=0
    ;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/versiononly.U

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

?RCS: \$Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: prototype.U,v \$

?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram

?RCS: patch23: ensure cc flags used when looking for prototype support

?RCS:

?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram

?RCS: patch16: prototype handling macros now appear only when needed

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram

?RCS: patch6: defines were referring to non-existent VOID symbol

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:36 ram

?RCS: Baseline for dist

3.0 netwide release.

?RCS:

?MAKE:prototype: Nothing

?S:prototype:

?S: This variable holds the eventual value of CAN_PROTOTYPE, which

?S: indicates the C compiler can handle function prototypes.

?S:.

: stub, never used

prototype=nothing

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/prototype.U

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

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/dup2.C

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

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 16:22:12 ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:37:01 ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:33:00 ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
?RCS: patch32: allow for cat in /bin or /usr/bin
?RCS:
```

```

?RCS: Revision 3.0.1.1 1993/09/13 16:12:58 ram
?RCS: patch10: made #-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp shsharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system. It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if ` $sh -c '#' >/dev/null 2>&1`; then
?X: echo
    "Your $sh handles # comments correctly."
shsharp=true
spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
xcat=/bin/cat
test -f $xcat$_exe || xcat=/usr/bin/cat
if test ! -f $xcat$_exe; then
for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
    if test -f $p/cat$_exe; then
        xcat=$p/cat
        break
    fi
done
if test ! -f $xcat$_exe; then
    echo "Can't find cat anywhere!"
    exit 1
fi

```

```

fi
echo "#!$xcat" >sharp
$unicefix sharp
chmod +x sharp
./sharp > today 2>/dev/null
if test -s today; then
?X: echo "It does."
    sharpbang='#!'
else
    echo "#! $xcat" > sharp
    $unicefix sharp
    chmod +x sharp
    ./sharp > today 2>/dev/null
    if test -s today; then
?X: echo "It does."
        sharpbang='#! '
    else
?X: echo "Okay, let's see if #! works on this system..."
?X: echo "It's just a comment."
        sharpbang=': use '
    fi
fi
else
    echo " "
    echo "Your $sh doesn't grok # comments--I will strip them later on."
    shsharp=false
?X: The
    spitshell script will be perused, so leave it out the UU directory
    cd ..
    echo "exec grep -v '^[ ]*#" >spitshell
    chmod +x spitshell
    $unicefix spitshell
    spitshell=`pwd`/spitshell
    cd UU
    echo "I presume that if # doesn't work, #! won't work either!"
    sharpbang=': use '
fi
rm -f sharp today

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/spitshell.U

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

?RCS: \$Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Instruct.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram

?RCS: patch61: logname / whoami sequence rewritten to use case

?RCS:

?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram

?RCS: patch51: author name now appears at the end of the paragraph (WED)

?RCS:

?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram

?RCS: patch45: now documents the & escape to turn -d on at the read prompt

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:04 ram

?RCS: Baseline for

dist 3.0 netwide release.

?RCS:

?X:

?X: This unit spew out the directions that we want everyone to read. I try to

?X: keep the first "pagefull" much less than a page since they don't know it

?X: isn't going to go shooting off the top of the screen, and we don't want

?X: to panic them yet.

?X:

?MAKE:Instruct: Myread Configdir Devel contains

?MAKE: -pick wipe \$@ %<

?T:user needman firsttime

: general instructions

needman=true

firsttime=true

user=`(logname) 2>/dev/null`

case "\$user" in

") user=`whoami 2>&1`;;

esac

if \$contains "^\$user\$" ../.config/instruct >/dev/null 2>&1; then

firsttime=false

echo " "

rp='Would you like to see the instructions?'

dflt=n

. ./myread

case "\$ans" in

[yY]*) ;;

*) needman=false;;

esac

fi

if \$needman; then

cat <<EOH

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

```
EOH
rp="
dflt='Type carriage return to continue'
. ./myread
cat <<'EOH'
```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer will remain unchanged and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

```
EOH
. ./myread
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

?X: In case they played with the prompter...

dflt="Type carriage return to continue"

. ./myread

case "\$firsttime" in

true) echo \$user >>../.config/instruct;;

esac

fi

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Instruct.U

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

?RCS: \$Id: make.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: make.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:09:40 ram

?RCS: patch61: created

?RCS:

?MAKE:make_set_make : Loc rm sed make

?MAKE: -pick add \$@ %<

?S:make_set_make:

?S: Some versions of 'make' set the variable MAKE. Others do not.

?S: This variable contains the string to be included in Makefile.SH

?S: so that MAKE is set if needed, and not if not needed.

?S: Possible values are:

?S:

?S: make_set_make='#' #


```

If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line beginning with @echo. Metaconfig
?X: will think that's a command like @if or @end.
$sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X @echo 'maketemp="\$(MAKE)'"
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
case "`$make -f testmake.mak 2>/dev/null`" in
*maketemp=*) make_set_make='#' ;;
*) make_set_make="MAKE=$make" ;;
esac
$rm
-f testmake.mak
;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/make.U
```

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

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: kernel.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:54 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:kernel: Getfile test

?MAKE: -pick add \$@ %<

?S:kernel:

?S: This variable becomes the (fully rooted) path name of the kernel.

?S:.

: find the name of the kernel.

echo " "

case "\$kernel" in

")

if \$test -r /unix; then

 dflt=/unix

elif \$test -r /vmunix; then

 dflt=/vmunix

elif \$test -r /xenix; then

 dflt=/xenix

elif \$test -r /mach; then

 dflt=/mach

elif

\$test -r /dgux; then

 dflt=/dgux

elif \$test -r /hp-ux; then

 dflt=/hp-ux

elif \$test -r /syst; then

 dflt=/syst

elif \$test -r /arix; then

 dflt=/arix

elif \$test -r /irix; then

 dflt=/arix

else

 dflt='unknown'

set X /*x

shift

case \$# in

1)

if \$test -r "\$1"; then

 dflt="\$1"

fi

::

esac

fi

```
;;
*)
dflt="$kernel"
;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file. This is normally "cat /etc/group", but can be
```

```

?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
if $test -f /usr/etc/nibindd; then
    echo
    " "

    echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
    echo " "

    rp='Do you get the passwd file via NetInfo?'
    dflt=y
    case "$passcat" in
        nidump*) ;;
        *) ;;
        *) dflt=n;;
    esac
    . ./myread
    case "$ans" in
        y*) passcat='nidump passwd .'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='nidump group .'
@end
    ;;
    *) echo "You told me, so don't blame me."
    case "$passcat" in
        nidump*) passcat="
@if groupcat
    groupcat="";;
@end
    esac
@if groupcat
    echo "(Assuming /etc/group is handled the same way.)"
@end
    ;;
    esac
@end
@if hostcat
    echo " "

```

```

rp='Do you get the hosts file via NetInfo?'
dflt=y
case "$hostcat" in
nidump*) ;;
") ;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
y*) hostcat='nidump hosts .';;
*) case "$hostcat" in
nidump*) hostcat="";;
esac
;;
esac
@end
fi
@if passcat || groupcat
case "$passcat" in
nidump*) ;;
*)
case "$passcat" in
*ypcat*) dflt=y;;
")
if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the passwd file via yellow pages?'
. ./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
echo "(Assuming /etc/group is also distributed.)"
groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'
@if groupcat
echo "(Assuming /etc/group is also local.)"
groupcat='cat /etc/group'
@end
;;
esac

```

```

;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case "$hostcat" in
*yecat*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
./myread
case "$ans" in
y*) hostcat='ypcat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
$test -f /etc/hosts && hostcat='cat
/etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
$test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
$test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nis.U

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

?RCS: \$Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extractall.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram

?RCS: patch61: created

?RCS:

?X:

?X: If extraction has been requested, load the configuration file, perform

?X: the extraction and exit.

?X:

?X: This unit was originally a part of Options.U. It had to be removed from

?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract

?X: The Begin.U unit now requires us before beginning to do anything

?X: interesting, to ensure

proper semantics. -- RAM, 15/03/96

?X:

?MAKE:Extractall: Extract Options

?MAKE: -pick wipe \$@ %<

: extract files and exit if asked to do so

case "\$extractsh" in

true)

?X: Undo the forced silent=true when -S was supplied, by probing realsilent

?X: which was set iff -s was also given. See Options.U for details.

case "\$realsilent" in

true) ;;

*) exec 1>&4;;

esac

case "\$config_sh" in

") config_sh='config.sh';;

esac

echo " "

echo "Fetching answers from \$config_sh..."

cd ..

. \$config_sh

?X: extract has to be run from the top directory, not within UU.

. UU/optdef.sh

echo " "

?X: extract has to be run from the top directory, not within UU.

. UU/extract

rm -rf UU

echo "Extraction done."

exit 0

```
::
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extractall.U
```

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

```
?RCS: $Id: perl5.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Andrew Dougherty
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?RCS: $Log: perl5.U,v $
```

```
?RCS:
```

```
?X:
```

```
?X: The purpose of this unit is to locate a previously installed
```

```
?X: version of perl5 suitable for running inc_version_list.U.
```

```
?X: We check for 5.005 and later because inc_version_list is
```

```
?X: irrelevant for earlier versions.
```

```
?X:
```

```
?MAKE:perl5: path_sep binexp test sed exe_ext
```

```
?MAKE: -pick add $@ %<
```

```
?Y:TOP
```

```
?S:perl5:
```

```
?S: This variable contains the full path (if any) to a previously
```

```
?S: installed perl5.005 or later suitable for running the script
```

```
?S: to determine inc_version_list.
```

```
?S:.
```

```
?T: tdir
```

```
: Find perl5.005 or later.
```

```
echo "Looking for a previously installed perl5.005 or later... "
```

```
case "$perl5" in
```

```
" ) for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
```

```
/g"; do
```

```
: Check if this perl is recent and can load a simple module
```

```
if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
```

```
perl5=$tdir/perl
```

```
break;
```

```
elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
```

```
perl5=$tdir/perl5
```

```
break;
```

```
fi
```

```
done
```

```
::
```

```
*) perl5="$perl5"
```

```
::
```



```
esac
case "$perl5" in
") echo "None found. That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/perl5.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: package.U,v \$

?RCS: Revision 3.0.1.3 1994/10/29 16:27:21 ram

?RCS: patch36: beware of non-ascii character sets when translating case

?RCS:

?RCS: Revision 3.0.1.2 1993/11/10 17:37:02 ram

?RCS: patch14: skip definition of spackage if not otherwise used

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:11:10 ram

?RCS: patch10: added spackage, suitable for starting sentences

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:28 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:package spackage:

Nothing

?MAKE: -pick wipe \$@ %<

?S:package:

?S: This variable contains the name of the package being constructed.

?S: It is primarily intended for the use of later Configure units.

?S:.

?S:spackage:

?S: This variable contains the name of the package being constructed,

?S: with the first letter uppercased, i.e. suitable for starting

?S: sentences.

?S:.

?C:PACKAGE:

?C: This variable contains the name of the package being built.

?C:.

```
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^(.).*\1/'
last=`echo $package | sed -e 's/^(.*)\1/'
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
$first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 14:58:36 ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
```

information that should
persist across sessions for \$package.

You may safely delete it if you wish.
EOF

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Configdir.U

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

```
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:05 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:37 ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedepend.SH

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

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
```

```
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees ""\${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
eval "install${prefixvar}=\`echo \${prefixvar}exp | sed \"s#^\${prefixexp#\$installprefixexp#\"`"
else
eval "install${prefixvar}=\"\${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix
```

```
: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
```

```
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\${ans}\""
eval "${prefixvar}exp=\"\${ansexp}\""
./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.2 1999/07/08 20:57:21 doughera

?RCS: Used installprefix.

?RCS:

?RCS: Revision 3.1 1999/07/08 20:52:19 doughera

?RCS: Updated for perl5.005_5x

?RCS:

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and

man3dir. This unit is basically dist's mansrc.U with

?X: man1 used instead of man everywhere.

?X:

?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \

spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \

prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?D:man1dir="

?S:man1dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?D:man1direxp="

?S:man1direxp:

?S: This variable is the same as the man1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installman1dir="

?S:installman1dir:

?S: This variable is really the same as man1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location.

For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man1ext:

?S: This variable contains the extension that the manual page should

```

?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '!'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
echo "However, you don't have nroff, so they're probably useless to you."
case "$man1dir" in
") man1dir="none";;
esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
') dflt=none
;;
")
lookpath="$prefixexp/share/man/man1"
lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath $prefixexp/man/p_man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1"
lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
expect man1dir to be under prefix,
?X: so we now always put it there. Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
case "$sysman" in
*/?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
*) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
esac
set dflt
eval $prefixup
;;
*) dflt="$man1dir"
;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"

```

```

./getfile
if $test "X$man1direxp" != "X$ansexp"; then
  installman1dir="
fi
prefixvar=man1dir
./setprefixvar

```

```

case "$man1dir" in
  ") man1dir=' '
  installman1dir=";;
esac

```

: What suffix to use on installed man pages

```

case "$man1dir" in
  ')
  man1ext='0'
  ;;
  *)
  rp="What suffix should be used for the main $spackage man pages?"
  case "$man1ext" in
    ") case "$man1dir" in
      *1) dflt=1 ;;
      *1p) dflt=1p ;;
      *1pm) dflt=1pm ;;
      *l) dflt=l;;
      *n) dflt=n;;
      *o) dflt=o;;
      *p) dflt=p;;
      *C) dflt=C;;
      *L) dflt=L;;
      *L1)
      dflt=L1;;
      *) dflt=1;;
    esac
    ;;
    *) dflt="$man1ext";;
  esac
  ./myread
  man1ext="$ans"
  ;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man1dir.U

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

?RCS: \$Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

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?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic License; a copy of which may be found at the root
 ?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: installstyle.U,v \$

?RCS: Revision 1.2 1999/07/13 14:56:06 doughera

?RCS: Fix dependencies. Add more comments.

?RCS:

?RCS: Revision 1.1 1999/07/12 17:30:41 doughera

?RCS: Initial revision

?RCS:

?RCS:

?MAKE:installstyle: prefix Myread

?MAKE: -pick add \$@ %<

?X: Myread dependence is for dflt.

?S:installstyle:

?S: This variable describes the "style" of the perl installation.

?S: This is intended to be useful for tools that need to
 ?S: manipulate entire perl
 distributions. Perl itself doesn't use
 ?S: this to find its libraries -- the library directories are
 ?S: stored directly in Config.pm. Currently, there are only two
 ?S: styles: "lib" and "lib/perl5". The default library locations
 ?S: (e.g. privlib, sitelib) are either \$prefix/lib or
 ?S: \$prefix/lib/perl5. The former is useful if \$prefix is a
 ?S: directory dedicated to perl (e.g. /opt/perl), while the latter
 ?S: is useful if \$prefix is shared by many packages, e.g. if
 ?S: \$prefix=/usr/local.

?S:

?S: Unfortunately, while this "style" variable is used to set
 ?S: defaults for all three directory hierarchies (core, vendor, and
 ?S: site), there is no guarantee that the same style is actually
 ?S: appropriate for all those directories. For example, \$prefix
 ?S: might be /opt/perl, but \$siteprefix might be /usr/local.
 ?S: (Perhaps, in retrospect, the "lib" style should never have been
 ?S: supported, but it did seem like a nice idea at the time.)

?S:

?S: The situation is even less clear for
 tools such as MakeMaker
 ?S: that can be used to install additional modules into
 ?S: non-standard places. For example, if a user intends to install
 ?S: a module into a private directory (perhaps by setting PREFIX on
 ?S: the Makefile.PL command line), then there is no reason to

?S: assume that the Configure-time \$installstyle setting will be
 ?S: relevant for that PREFIX.
 ?S:
 ?S: This may later be extended to include other information, so
 ?S: be careful with pattern-matching on the results.
 ?S:
 ?S: For compatibility with perl5.005 and earlier, the default
 ?S: setting is based on whether or not \$prefix contains the string
 ?S: "perl".
 ?S:.
 : determine installation style
 : For now, try to deduce it from prefix unless it is already set.
 : Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
 case "\$installstyle" in
 ") case "\$prefix" in
 perl) dflt='lib';;
 *) dflt='lib/perl5' ;;
 esac
 ;;
 *) dflt="\$installstyle" ;;
 esac
 : Probably not worth prompting for this since we prompt
 for all
 : the directories individually, and the prompt would be too long and
 : confusing anyway.
 installstyle=\$dflt

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installstyle.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1993, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic License,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic License; a copy of which may be found at the root
 ?RCS: of the source tree for dist 3.0.
 ?RCS:
 ?RCS: \$Log: Init.U,v \$
 ?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram
 ?RCS: patch44: removed Options from MAKE to prevent Init overrides
 ?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
 ?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
 ?RCS: patch44: moved signal trapping instruction to Begin.U as well
 ?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:05:02 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
initializes certain default variables used by Configure. They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell. On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist="

: We must find out about
Eunice early
eunicefix=:'
if test -f /etc/unixtovms; then
eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
_exe=""

```

```

elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
  _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
  _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
  _exe=""
elif test -d c:/ -o -n "$is_os2" ; then
: OS/2 or cygwin
  _exe=".exe"
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Init.U

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

?RCS: \$Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Options.U,v \$

?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram

?RCS: patch61: optdef.sh now starts with a "startsh"

?RCS: patch61: moved some code from Head.U

?RCS:

?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram

?RCS: patch59: protected option parsing code against 'echo -*' option failure

?RCS:

?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram

?RCS: patch54: added -K option for experts

?RCS:

?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram

?RCS:

patch49: this unit now exports file optdef.sh, not a variable

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram

?RCS: patch45: new -O option allowing -D and -U to override config.sh settings

?RCS: patch45: file optdef.sh is no longer removed after sourcing

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram

?RCS: patch36: ensure option definition file is removed before appending

?RCS: patch36: protect variable definitions with spaces in them

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram

?RCS: patch30: now uses new me symbol to tag error messages

?RCS: patch30: new -D and -U options to define/undef symbols (JHI)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:14 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Command line parsing. It is really important that the variables used here

?X: be not listed in the MAKE line, or they will be saved in config.sh and

?X: loading this file to fetch default answers would clobber the values set

?X: herein.

?X:

?MAKE:Options:

startsh

?MAKE: -pick wipe \$@ %<

?V:reuseval alldone error realsilent silent extractsh fastread \

knowitall: config_sh

?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu

?T:args_exp args_sep arg_exp ccflags

?F:!Configure

?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt

: Save command line options in file UU/cmdline.opt for later use in

: generating config.sh.

?X: This temporary file will be read by Oldsym.U. I used a temporary

?X: file to preserve all sorts of potential command line quotes and

?X: also because we don't know in advance how many variables we'll

?X: need, so I can't actually declare them on the MAKE line.

?X: The config_args variable won't be quite correct if Configure is

?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"

?X: since the quotes are gone by the time we see them. You'd have to

?X: reconstruct the command line from the config_arg? lines, but since

?X: I don't imagine anyone actually having to do that, I'm not going

?X:

to worry too much.

cat > cmdline.opt <<EOSH

: Configure command line arguments.

config_arg0='\$0'

config_args='\$*

config_argc=\$#

EOSH

argn=1

args_exp="

args_sep="

for arg in "\$@"; do

```

cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by """"
cat <<EOC | sed -e "s/"/""""/g" > cmdl.opt
$arg
EOC
arg_exp=`cat cmdl.opt`
args_exp="$args_exp$args_sep'$arg_exp'"
argn=`expr $argn + 1`
args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

```

```

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
    optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

```

```

    len = length(optstr);
    for (i = 1; i <= len; i++) {
        c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
        if (i < len) a = substr(optstr, i + 1, 1); else a = "";
        if (a == ":") {
            arg[c] = 1;
            i++;
        }
        opt[c]
    = 1;
    }
}
{
    expect = 0;
    str = $0;
    if (substr(str, 1, 1) != "-") {
        printf("%s\n", str);
        next;
    }
    len = length($0);
    for (i = 2; i <= len; i++) {
        c = substr(str, i, 1);
        if (!opt[c]) {
            printf("-%s\n", substr(str, i));
            next;
        }
    }
}

```

```

printf("-%s\n", c);
if (arg[c]) {
  if (i < len)
    printf("%s\n", substr(str, i + 1));
  else
    expect = 1;
  next;
}
}
}
END {
  if (expect)
    print "?";
}
EOF

```

: process the command line options

```

?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
  sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

```

: set up default values

```

fastread=""
reuseval=false
config_sh=""
alldone=""
error=""
silent=""
extractsh=""
knowitall=""
rm
-f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

```

?X:

```

?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the

```

?X: screen...
 ?X:
 ?X: That's not pretty, and might be confusing in 99% of the time. So...
 ?X: We introduce a new realsilent variable which is set when -s is given,
 ?X: and we force silent=true if -S is supplied. The Extractall.U unit
 ?X: will then undo the >&4 redirection based on the value of the
 ?X: realsilent variable... -- RAM, 18/93/96
 ?X:

```
: option parsing
while test $# -gt 0; do
  case "$1" in
    -d) shift; fastread=yes;;
    -e) shift; alldone=cont;;
    -f)
      shift
      cd ..
      if test -r "$1"; then
        config_sh="$1"
      else
        echo "$me: cannot read config file $1."
      fi
    >&2
      error=true
    fi
    cd UU
    shift;;
    --help\
    -h) shift; error=true;;
    -r) shift; reuseval=true;;
    -s) shift; silent=true; realsilent=true;;
    -E) shift; alldone=exit;;
    -K) shift; knowitall=true;;
    -O) shift;;
    -S) shift; silent=true; extractsh=true;;
    -D)
      shift
      case "$1" in
        *)
          echo "$me: use '-U symbol=', not '-D symbol='." >&2
          echo "$me: ignoring -D $1" >&2
          ;;
        *) echo "$1" | \
          sed -e "s/'/'\"/g" -e "s/=(.*)/=\\1/'" >> optdef.sh;;
        *) echo "$1=define" >> optdef.sh;;
      esac
      shift
    ;;
    -U)
```

```

shift
case "$1" in
*=) echo "$1" >> optdef.sh;;
*=*)
echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
echo "$me: ignoring -U $1" >&2
;;
*) echo "$1='undef'" >> optdef.sh;;
esac
shift
;;
-A)
shift
xxx=""
yyy="$1"
zzz=""
uuu=undef
case "$yyy" in
*=*) zzz=`echo "$yyy"|sed 's!=.*!!'^
case "$zzz" in
*.*) zzz="" ;;
*) xxx=append

zzz="" ``echo "$yyy"|sed 's!^[^=]*!!'^
yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
esac
;;
esac
case "$xxx" in
") case "$yyy" in
*.*) xxx=`echo "$yyy"|sed 's!:..*!!'^
yyy=`echo "$yyy"|sed 's!^[^:]*!!'^
zzz=`echo "$yyy"|sed 's!^[^=]*!!'^
yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
*) xxx=`echo "$yyy"|sed 's!:..*!!'^
yyy=`echo "$yyy"|sed 's!^[^:]*!!'^ ;;
esac
;;
esac
case "$xxx" in
append)
echo "$yyy=\\\"${yyy}$zzz\\\"" >> posthint.sh ;;
clear)
echo "$yyy="" >> posthint.sh ;;
define)
case "$zzz" in
") zzz=define ;;
esac

```



```

echo "$yyy=$zzz" >> posthint.sh ;;
eval)
echo "eval \"$yyy=$zzz\" >> posthint.sh ;;
prepend)
echo "$yyy=\"$zzz\${ $yyy}\" >> posthint.sh ;;
undef)

    case "$zzz" in
    ") zzz="$uuu" ;;
    esac
echo "$yyy=$zzz" >> posthint.sh ;;
    *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
shift
;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
        [-U symbol] [-U symbol=] [-A command:symbol...]
-d : use defaults for all answers.
-e : go on without questioning past the production of config.sh.
-f : specify an alternate default configuration file.
-h : print this help message and exit (with an error status).
-r : reuse C symbols value if possible (skips costly nm extraction).
-s : silent mode, only echoes questions and essential information.
-D : define symbol to have some value:
    -D symbol          symbol gets the
value 'define'
    -D symbol='some value'  symbol is set to 'some value'
common used examples (see INSTALL for more info):
    -Duse64bitint        use 64bit integers
    -Duse64bitall        use 64bit integers and pointers
    -Dusethreads         use thread support
    -Dinc_version_list=none do not include older perl trees in @INC
    -DEBUGGING=none      DEBUGGING options
    -Dcc=gcc             choose your compiler
    -Dprefix=/opt/perl5   choose your destination
-E : stop at the end of questions, after having produced config.sh.
-K : do not use unless you know what you are doing.

```

-O : ignored for backward compatibility

-S : perform variable substitutions on all .SH files (can mix with -f)

-U : undefine symbol:

- U symbol symbol gets the value 'undef'
- U symbol= symbol gets completely empty

e.g.: -Uversiononly

-A : manipulate symbol after the platform specific hints have been applied:

- A append:symbol=value append value to symbol
- A symbol=value like append:, but with a separating space
- A define:symbol=value define symbol to have value
- A clear:symbol define symbol to be "
- A define:symbol define symbol to be 'define'
- A eval:symbol=value define symbol to be eval of value
- A prepend:symbol=value prepend value to symbol
- A undef:symbol define symbol to be 'undef'
- A undef:symbol= define symbol to be "

e.g.: -A prepend:libswanted='cl pthread '

-A ccflags=-DSOME_MACRO

-V : print version number and exit (with a zero status).

EOM

exit 1

::

esac

?X:

?X: Unless they specified either -S or both -d and -e/E, make sure we're

?X: running interactively, i.e. attached to a terminal. Moved from Head.U to

?X: be able to handle batch configurations...

?X:

?X: We have to hardwire the Configure name and

cannot use \$me, since if they

?X: said 'sh <Configure', then \$me is 'sh'...

?X:

: Sanity checks

case "\$fastread\$alldone" in

yescont|yesexit) ;;

*)

case "\$extractsh" in

true) ;;

*)

if test ! -t 0; then

echo "Say 'sh Configure', not 'sh <Configure'"

exit 1

fi

::

esac

::

esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputting on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not been defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "\$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...

touch optdef.sh

?X: -q is POSIX

?X: It does not work in SysV (solaris) or old BSD greps.

grep '\ ' optdef.sh >/dev/null 2>&1

if test \$? = 0; then

 echo "Configure does not support \

in -D arguments"

 exit 1

fi

./optdef.sh

: create the posthint manipulation script and leave the file out there...

?X: this file will be perused by Oldconfig.U

touch posthint.sh

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Options.U

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

?RCS: \$Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Chk_whoami.U,v \$

?RCS: Revision 3.0 1993/08/18 12:04:46 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit makes sure we don't try to include whoami.h if uname() exists.

?X:

```
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
"$define") i_whoami="$sundef" ;;
esac
```

Found in path(s):

```
* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_whoami.U
```

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

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:01:49 ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
?X: entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
```

```
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM
```

There is a mailing list for discussion about \$package and related issues. This is the preferred place to ask questions about the program and discuss modifications and additions with the author and other users. If you are able to send mail to the Internet, you are encouraged to subscribe. You need only ever subscribe once, and you can unsubscribe automatically at any time in the future. If you have already subscribed and you wish to unsubscribe now, you may do so by answering "unsubscribe". Answer "subscribe" to subscribe to the list.

```
EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM
```

You will be sent a message from the list server to let you know when your subscription has been successful and telling you how to submit articles and how to unsubscribe again when necessary. You may also unsubscribe by running this script again and asking it to do so for you.

```
EOM
echo "Sending mail to subscribe you to the $list_name list..." >&4
$mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request
```

```
$list_sub
EOM
;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
$mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
$list_request
```

```
$list_unsub
EOM
;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailList.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Csym.U,v \$

?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS: patch56: added quotes for OS/2 support

?RCS:

?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram

?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram

?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:00:05 ram

?RCS:

patch6: added ldflags as a conditional dependency and to compile line

?RCS: patch6: a final double quote was missing in csym variable after eval

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm

?MAKE: -pick add \$@ %<

?LINT:define csym

?LINT:use libc

?S:csym:

?S: This shell variable is used internally by Configure to check

?S: whether a given C symbol is defined or not. A typical use is:

?S: set symbol result [-fva] [previous]

?S: eval \$csym

?S: That will set result to 'true' if the function [-f], variable [-v]

?S: or array [-a] is defined, 'false' otherwise. If a previous value is

?S: given and the -r flag was provided on the command line, that value

?S: is reused without questioning.

?S:.

```

?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^\$1\$";
   tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
case "$runnm" in
true)
if $contains $tlook $tf >/dev/null 2>&1;
then tval=true;
else tval=false;
fi;;
*)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
   compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
then tval=true;
else tval=false;
fi;
$rm -f t t.c;;

```

```

esac;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;;
esac;
eval "$2=$tval"

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Csym.U

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

?RCS: \$Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: manfmt.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 16:11:57 ram

?RCS: patch61: don't ask for AFS when they choose to not install pages

?RCS:

?RCS: Revision 3.0.1.4 1995/09/25 09:16:52 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.3 1995/01/30 14:39:20 ram

?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS:

Revision 3.0.1.2 1994/08/29 16:30:31 ram

?RCS: patch32: now uses installation prefix for default setting

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:09:22 ram

?RCS: patch10: allows for L1 man page extension (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:13 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \

spackage Prefixit prefixexp Prefixup afs test

?MAKE: -pick add \$@ %<

?Y:TOP

?S:manfmt:
 ?S: This variable contains the name of the directory in which formatted
 ?S: manual pages are to be put. It is the responsibility of the
 ?S: Makefile.SH to get the value of this into the proper command. Note
 ?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
 ?S:.
 ?S:manfmtexp:
 ?S: This is the same as the manfmt variable, but is filename expanded
 ?S: at configuration time, for programs not willing to deal with it at
 ?S: run-time.
 ?S:.
 ?S:installmanfmt:
 ?S: This variable is really
 the same as manfmtexp, unless you are using
 ?S: AFS in which case it points to the read/write location whereas
 ?S: mansrcexp only points to the read-only access location. For extra
 ?S: portability, you should only use this variable within your makefiles.
 ?S:.
 ?LINT:change manext
 ?T:lookpath
 : determine where manual pages go
 set manfmt manfmt
 eval \$prefixit
 \$cat <<EOM

\$spackage has pre-formatted manual pages. If you don't want these installed,
 answer 'none' to the next question.

EOM
 case "\$manfmt" in
 ")
 lookpath="\$prefixexp/catman/man1 \$prefixexp/man/cat1"
 lookpath="\$lookpath \$prefixexp/catman/u_man/man1"
 lookpath="\$lookpath \$prefixexp/catman/l_man/man1"
 lookpath="\$lookpath \$prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="\$lookpath /usr/catman/man1 /usr/man/cat1"
 lookpath="\$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="\$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none \$lookpath`
 set dflt
 eval \$prefixup
 ;;
 *) dflt="\$manfmt"
 ;;
 esac
 fn=dn~
 rp='Where

```
do pre-formatted manual pages go?'
./getfile
if test "X$manfmtexp" != "X$ansexp"; then
installmanfmt="
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
$cat <<EOM
```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```
EOM
case "$installmanfmt" in
") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#`;;
*) dflt="$installmanfmt";;
esac
fn=de~
rp='Where will pre-formatted man pages be installed?'
./getfile
installmanfmt="$ans"
else
installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.
```

You may redistribute only under the terms of the Artistic Licence,

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/fixcpp
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/bindex
```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/makegloss
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.mk
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: \$Log: vendorhtml1dir.U,v \$
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add \$@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages. It may have a ~ on the front.
?S: The standard distribution will put nothing in this
directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.
?S:..
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:..
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:..
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "\$vendorprefix" in
) vendorhtml1dir="
vendorhtml1direxp="

```

;;
*) : determine where vendor-supplied html pages go.
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
: XXX Better default suggestions would be welcome.
case "$vendorhtml1dir"
in
") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
*) dflt=$vendorhtml1dir ;;
esac
case "$dflt" in
"| ' ' ) dflt=none ;;
esac
fn=dn+~
rp='Pathname for the vendor-supplied html pages?'
. ./getfile
vendorhtml1dir="$ans"
vendorhtml1direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:08:02 ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:00 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:

```

```

?MAKE:libnlist: Loc libpth Guess usrin _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
get the
?S: definition of the nlist() function. On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf. Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrin
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
libnlist='-lmld'
else
xxx=`./loc libelf$_a x $libpth`
case "$xxx" in
x) ;;
*)
libnlist="$xxx"
;;
esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
;;
*) echo "nlist() can be found in $libnlist." >&4
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnlist.U

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

?RCS: \$Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: h_sysfile.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:13 ram

?RCS: Baseline for dist 3.0 netwide release.

```
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X: set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X: eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X: $i_sysbar sys/bar.h
?X: $i_syszot sys/zot.h
?X: $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
case "$1" in
$define) echo "#include <$2>";;
esac ;
shift 2;
```

```

done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
    val="$define";
else
    val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasfield.U
```

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

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
```

```
?RCS: $Log: installprefix.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?RCS:
```

```
?MAKE:installprefix installprefixexp: Getfile Loc \
```

```
Oldconfig afs cat package prefix
```

```
?MAKE: -pick add $@ %<
```

```
?S:installprefix:
```

```
?S: This variable holds the name of the directory below which
```

```
?S: "make install" will install the package. For most users, this
```

```
?S: is the same
```

```
as prefix. However, it is useful for
```

```
?S: installing the software into a different (usually temporary)
```

```
?S: location after which it can be bundled up and moved somehow
```

```
?S: to the final location specified by prefix.
```

```
?S:.
```

```
?S:installprefixexp:
```

```
?S: This variable holds the full absolute path of installprefix
```

```
?S: with all ~-expansion done.
```

?S:.

: determine installation prefix for where package is to be installed.

if \$afs; then

\$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which files will reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

EOM

```
case "$installprefix" in
```

```
) dflt=`echo $prefix | sed 's#^/afs/#/afs/.#`;;
```

```
*) dflt="$installprefix";;
```

```
esac
```

else

\$cat <<EOM

In some special cases, particularly when building \$package for distribution, it is convenient to distinguish the directory in which files should be installed from the directory (\$prefix) in which they will eventually reside. For most users, these two directories are the same.

EOM

```
case "$installprefix" in
```

```
) dflt=$prefix ;;
```

```
*) dflt=$installprefix;;
```

```
esac
```

fi

fn=d~

rp='What installation prefix should I use for installing files?'

./getfile

installprefix="\$ans"

installprefixexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installprefix.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.


```

?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:05:06 ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

```

I need to get your e-mail address
in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

```

EOM
cont=x
while test "$cont"; do
case "$MAILDOMAIN" in
")
if $test -s /etc/mailname; then
maildomain=`$cat /etc/mailname`
else
maildomain="$myhostname$mydomain"
fi
;;
*) maildomain="$MAILDOMAIN";;
esac
case "$cf_email" in
") dflt="$cf_by@$maildomain";;
*) dflt="$cf_email";;
esac
rp='What is your e-mail address?'
. ./myread
cf_email="$ans"
case "$cf_email" in
*@(.*.*) cont="";;
*)
rp='Address does not look like an Internet one. Use it anyway?'

```

```

case "$fastread" in
yes) dflt=y ;;
*) dflt=n ;;
esac
. ./myread
case "$ans" in
y*) cont=" " ;;
*) echo " " ;;
esac
;;
esac
done

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_email.U

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

```

?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5 1997/02/28 15:04:41 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4 1994/08/29 16:05:09 ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:47:30 ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
3.0.1.2 1993/09/13 15:48:49 ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1 1993/08/27 14:38:38 ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:06 ram

```

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?RCS:

?X:

?X: This unit asks the user to please send a message to the author.

?X: To force inclusion of this unit, you must add it's name to the

?X: dependancies on the MAKE line in your private copy of End.U.

?X: This allows a smart mailagent program to automatically let users know

?X: when their package is out of date, and to allow users to be notified of

?X: any future patches.

?X:

?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
package Myread patchlevel baserev rm rsrc Oldconfig Configdir

?MAKE: -pick wipe \$@ %<

?S:mailpatches:

?S: Indicates whether the user would like future patches to be mailed

?S: directly

to them.

?S:.

?S:notifypatches:

?S: Indicates whether the user would like notification of future patches

?S: mailed to them.

?S:.

?S:usermail:

?S: This variable is used internally by Configure to keep track of the

?S: user e-mail address, where notifications or patches should be sent.

?S: A '-' value means the return address will be extracted by parsing

?S: the mail headers.

?S:.

?T:opt mailpatches notifypatches atsh status

: notify author that his package is used

if \$test -f ../config/mailauthor &&

cmp \$rsrc/patchlevel.h ../config/mailauthor >/dev/null 2>&1

then

status="say that you're using \$package";

case "\$mailpatches" in

true) status='have patches mailed to you as they are issued';;

esac

case "\$notifypatches" in

true) status='be notified when new patches are issued';;

esac

\$cat <<EOM

You have already sent the author of \$package (<MAINTLOC>) mail to

\$status. If you wish, you may modify

your previous request by sending a new mail with different options.

EOM

```

rp='Should
I send a status update to <MAINTLOC>?'
dflt=n
else
$cat <<EOM

```

If you are able to send mail to the Internet, the author of \$package would really appreciate you letting me send off a quick note, just to say that you've tried it. The author is more likely to spend time maintaining \$package if it's known that many people are using it, and you can even ask to get sent new patches automagically this way if you wish. To protect your privacy, all I'll say in the mail is the version of \$package that you're using.

```

EOM
rp='Should I send mail to <MAINTLOC>?'
dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
$test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
echo " "
echo "Great! Your cooperation is really appreciated."
$cat <<EOM

```

Some braindead sites do not set a proper return address in the From: header of their outgoing mail, making it impossible to reply to mail they generate. If your site is broken in this way, write to your system administrator and get it fixed!!! In the mean time, you can manually specify the Internet e-mail address by which the author can get back to you, should there be a need to do so. If manually specified, it should be something like "user@domain.top". If your mail system generates addresses correctly, specify "none".

```

EOM
case "$usermail" in
'|') dflt=none;;
*) dflt="$usermail";;
esac
rp='Manually specify a return address to use:'
. ./myread
case "$ans" in
none|*@*.*)
case "$ans" in
none) usermail='-';;

```

```

*) usermail="$ans";;
esac
;;
*)
echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
RAM.
?X:
usermail='- '
mailpatches=false
notifypatches=false
;;
esac
echo " "
opt=""
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
mailpatches=false
echo " "
rp='Ok, would you like to simply be notified of new patches?'
case "$notifypatches" in
false) dflt=n;;
*) dflt=y;;
esac
. ./myread
echo " "
case "$ans" in
[yY]*) opt=' notifypatches'; notifypatches=true;;
*)
echo "Fine, I'll simply say that you've tried it then."
notifypatches=false
;;
esac
;;
esac
echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.

```

?X: Do it via a variable instead.

atsh='@SH'

\$mailer <MAINTLOC> <<EOM >/dev/null 2>&1

Subject: Command

Precedence: junk

To: <MAINTLOC>

\$atsh

package \$usermail \$package \$baserev \$patchlevel\$opt

EOM

\$rm -f ../config/mailauthor ../config/nomail

cp \$src/patchlevel.h ../config/mailauthor

::

*)

case "\$dfit" in

"y")

echo "Oh well, maybe next time."

cp /dev/null ../config/nomail

::

esac

::

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailAuthor.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Unix.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram

?RCS: patch61: created

?RCS:

?X:

?X: The purpose of this unit is to define things that are common across all

?X: known UNIX platforms. If Configure is ported/used on a non-UNIX

?X: environment, then some of the following variables can be redefined in hint

?X: files.

?X:

```

?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
    used for ordinary libraries.
?S: For unix, it is '.a'. The '.' is included. Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'. The '.' is included. Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make. On unix,
?S: it is makefile (then Makefile). On case-insensitive systems,
?S: it might be something else. This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture. On unix, it is usually
?S: empty. It is typically used to include emulations of unix calls
?S: or other facilities. For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
    or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first. This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Unix.U

```

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

?RCS: \$Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Unix.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram

?RCS: patch61: created

?RCS:

?X:

?X: The purpose of this unit is to define things that are common across all

?X: known UNIX platforms. If Configure is ported/used on a non-UNIX

?X: environment, then some of the following variables can be redefined in hint

?X: files.

?X:

?MAKE: Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \

firstmakefile archobjs rm_try: Oldconfig rm

?MAKE: -pick add \$@ %<

?S: _exe:

?S: This

variable defines the extension used for executable files.

?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.

?S: On operating systems which do not require a specific extension

?S: for executable files, this variable is empty.

?S:.

?S: _a:

?S: This variable defines the extension used for ordinary library files.

?S: For unix, it is '.a'. The '.' is included. Other possible

?S: values include '.lib'.

?S:.

?S: _o:

?S: This variable defines the extension used for object files.

?S: For unix, it is '.o'. The '.' is included. Other possible

?S: values include '.obj'.

?S:.

?S: firstmakefile:

?S: This variable defines the first file searched by make. On unix,

?S: it is makefile (then Makefile). On case-insensitive systems,

?S: it might be something else. This is only used to deal with

?S: convoluted make depend tricks.

?S:.

?S:archobjs:
 ?S: This variable defines any additional objects that must be linked
 ?S: in with the program on this architecture. On unix, it is usually
 ?S: empty.
 It is typically used to include emulations of unix calls
 ?S: or other facilities. For perl on OS/2, for example, this would
 ?S: include os2/os2.obj.
 ?S:.
 ?X: Metaconfig's Obsolete symbol stuff is too over-eager. In the
 ?X: perl sources, it picks up things like "P" and "FLOCK" that are
 ?X: not used in the way Metaconfig thinks they are. Thus I can't
 ?X: just declare these obsolete and then run metaconfig -o.
 ?X: Instead, I'll just handle them here.
 ?X: Sadly, history has conspired to give us a web of definitions;
 ?X: this could have been much simpler.
 ?S:lib_ext:
 ?S: This is an old synonym for _a.
 ?S:.
 ?S:exe_ext:
 ?S: This is an old synonym for _exe.
 ?S:.
 ?S:obj_ext:
 ?S: This is an old synonym for _o.
 ?S:.
 ?S:path_sep:
 ?S: This is an old synonym for p_ in Head.U, the character
 ?S: used to separate elements in the command shell search PATH.
 ?S:.
 ?S:rm_try:
 ?S: This is a cleanup variable for try test programs.
 ?S: Internal Configure use only.
 ?S:.
 ?LINT: change p_
 ?INIT::
 Trailing extension. Override this in a hint file, if needed.
 ?INIT:: Extra object files, if any, needed on this platform.
 ?INIT:archobjs="
 : Define several unixisms.
 : Hints files or command line option can be used to override them.
 : The convoluted testing is in case hints files set either the old
 : or the new name.
 case "\$_exe" in
 ") case "\$exe_ext" in
 ") ;;
 *) _exe="\$exe_ext" ;;
 esac
 ;;
 esac

```

case "$_a" in
") case "$lib_ext" in
  "_a='.a';;
*) _a="$lib_ext" ;;
esac
;;
esac
case "$_o" in
") case "$obj_ext" in
  "_o='.o';;
*) _o="$obj_ext";;
esac
;;
esac
case "$p_" in
") case "$path_sep" in
  "p_='.';:;
*) p_="$path_sep";;
esac
;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

```

```

@if firstmakefile
: Which makefile gets called first. This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

```

```
@end
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```

/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of

```

- * that same Artistic Licence; a copy of which may be found at the root
- * of the source tree for dist 4.0.
- *
- * \$Log: scandir.C,v \$
- * Revision 3.0.1.1 1994/01/24 13:58:45 ram
- * patch16: created
- *
- */

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/scandir.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: orderlib.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 16:18:18 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS: patch61: likewise for .o replaced by \$_o

?RCS: patch61: now uses the ar located by Loc.U

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:33:04 ram

?RCS: patch45: allows hint files to specify their own value for 'ranlib'

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:26:48 ram

?RCS: patch36: now performs a real small compile for accurate checks (ADO)

?RCS:

?RCS: Revision 3.0.1.1

1994/08/29 16:31:17 ram

?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:26 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o

?MAKE: -pick add \$@ %<

?S:orderlib:

?S: This variable is "true" if the components of libraries must be ordered

?S: (with `lorder \$* | tsort`) before placing them in an archive. Set to

?S: "false" if ranlib or ar can generate random libraries.

```

?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries. Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail. (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "ar appears to generate random libraries itself."
orderlib=false
ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
$cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "a table of contents
needs to be added with 'ar ts'."
orderlib=false
ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
case "$ranlib" in
:) ranlib=";;
")
ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`

```

```

$test -f $ranlib || ranlib="
;;
esac
if $test -n "$ranlib"; then
echo "your system has '$ranlib'; we'll use that."
orderlib=false
else
echo "your system doesn't seem to support random libraries"
echo "so we'll use lorder and tsort to order the libraries."
orderlib=true
ranlib=":"
fi
fi
$rm -f foo* bar*

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/orderlib.U

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

?RCS: \$Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: lintlib.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:05 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:lintlib:

?S: This variable holds the name of the directory in which the user wants

?S: to put public lint-library files for the package in question. It is

?S: most often a local directory such as /usr/local/lib/lint. Programs using

?S: this variable must be prepared to

deal with ~name expansion.

?S:.

?S:lintlibexp:

?S: This variable is the same as the lintlib variable, but is filename

?S: expanded at configuration time, for convenient use in your makefiles.

?S:.

: determine where public lint libraries go

case "\$lintlib" in

```

") dflt=`./loc . ". /usr/local/lib/lint /usr/lib/lint /usr/lib`;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp="Where do you want to put the public lint libraries?"
./getfile
lintlib="$ans"
lintlibexp="$ansexp"

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_prctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_class.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_round.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usemorebits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localtime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longlong.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_acosh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lround.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/ebcdic/ebcdic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strncpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lgamma_r.U
*
/per-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getprotby.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_gethostent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_rint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmode.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_recvmmsg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_crypt_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_unsetenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_expml.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtold.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getprotobyname_r.U
*
/per-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_ustat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usequadmath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getcwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_tmpnam_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_remquo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getmntent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_sethostent_r.U

```

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyport_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fseeko.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/uselongdbl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nextafter.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_syslog.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_statvfs.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towlower.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ghostbyname_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_frexp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtoll.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isinf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_union_semun.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fp_class.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysstatfs.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/quadfio.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_writev.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endgrent_r.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_copysign.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_clearenv.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nan.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/atolf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_siginfo_si.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnbyad.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_ieeeefp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtouq.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strerror_l.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sendmsg.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_strtod_l.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_langinfo.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socks5_init.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtoull.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_random_r.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_quadmath.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endgrent.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endhostent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_strerror_r.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getitimer.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_readv.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/infnan.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fp_classl.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nearbyint.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_hasmntopt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpos64_t.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_futimes.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlsrc.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxfv.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lgamma.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_poll.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/longdblfiio.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthattrj.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_remainder.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidf.U


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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrnam_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Protochk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/socksizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_exp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getnameinfo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llround.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ttyname_r.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyname_r.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_hypot.U

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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setenv.U.x
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setgrent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endnetent_r.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpclass.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_mkstemp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkdtemp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_thread_local.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_asinh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethbyad.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_stdbool.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localeconv_l.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_log2.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nexttoward.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Extensions.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setproctitle.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isless.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_tgamma.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isfinitel.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/acl/d_accessx.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkstemps.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towupper.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_statfs_s.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mntent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getenv_thread.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llroundl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_syssyscall.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_trunc_l.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_copysignl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_libm_lib_version.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_off64_t.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/defaultincdot.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrintl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sunmath.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isinfl.U
- *

```

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmount.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getfsstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_finitel.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lrintl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ctime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fs_data_s.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getnetbyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_trunc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ilogbl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getlogin_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getgrent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ftello.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_inetpton.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usedefaultstrict.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_drand48_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_readdir_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthread_y.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strftime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usemultiplicity.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dl原因mun.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sitecustomize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strlcat.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:

```

?S: This variable contains the name of the directory for html

?S: library pages. It may have a ~ on the front.

?S: The standard distribution will put nothing
in this directory.

?S: Vendors who distribute perl may wish to place their own

?S: html pages for modules and extensions in this directory with

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor

?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorhtml3direxp:

?S: This variable is the ~name expanded version of vendorhtml3dir, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorhtml3dir="

?S:installvendorhtml3dir:

?S: This variable is really the same as vendorhtml3direxp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installvendorhtml3dir

: Set the vendorhtml3dir variables

case "\$vendorprefix" in

) vendorhtml3dir="

vendorhtml3direxp="

::

*) : determine where vendor-supplied module html pages go.

: There is no standard location, so try to copy the previously-selected

: directory structure for the core html pages.

: XXX Better default

suggestions would be welcome.

case "\$vendorhtml3dir" in

) dflt=`echo "\$html3dir" | \$sed "s#^\$prefix#\$vendorprefix#" ` ;

*) dflt=\$vendorhtml3dir ;

esac

case "\$dflt" in

"|") dflt=none ;

esac

fn=dn+~

rp='Pathname for the vendor-supplied html pages?'

. ./getfile

vendorhtml3dir="\$ans"

vendorhtml3direxp="\$ansexp"

::

esac

: Use ' ' for none so value is preserved next time through Configure

\$test X"\$vendorhtml3dir" = "X" && vendorhtml3dir=' '

prefixvar=vendorhtml3dir

./installprefix

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml3dir.U

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

?RCS: \$Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libyacc.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 16:09:19 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.3 1994/05/13 15:27:12 ram

?RCS: patch27: added byacc case (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:09:01 ram

?RCS: patch23: now uses full library path instead of -l notation

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:13:49 ram

?RCS: patch16: un-obsolete this unit for smooth yacc compilations

?RCS:

?RCS:

Revision 3.0 1993/08/18 12:09:04 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libyacc: Loc yacc libpth _a

?MAKE: -pick add \$@ %<

?S:libyacc:

?S: This variable contains the argument to pass to the loader in order

?S: to get the yacc library routines. If there is no yacc or yacc

?S: library, it is null.

?S:.

?T:xxx

: see if we should include -ly

echo " "

case "\$yacc" in

byacc)

echo "You are using byacc, so I won't look for a yacc library." >&4

libyacc="

::

```

*yacc)
xxx=`./loc liby$_a x $libpth`
case "$xxx" in
x)
echo "No yacc library found." >&4
libyacc="
;;
*)
echo "yacc library found in $xxx." >&4
libyacc="$xxx"
;;
esac
;;
*bison*)
echo "You are using bison, so I won't look for a yacc library." >&4
libyacc="
;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
libyacc="
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libyacc.U

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

?RCS: \$Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: longsize.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:09:35 ram

?RCS: patch61: code moved to intsize.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:24:31 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: 'longsize' is now defined within intsize.U

?X:

?LINT: empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/longsize.U

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

?RCS: \$Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d_group.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:34:52 ram

?RCS: patch61: useless unit dropped.

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:07:48 ram

?RCS: patch32: created by ADO

?RCS:

?X:

?X: Useless unit dropped.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_group.U

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

?RCS: You may redistribute only under the terms of the Artistic Licence,

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wctomb.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/registers.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dbl_dig.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bcopy.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fork.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_inetd.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_nice.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pipe.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mbstowcs.U


```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sbrk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pread.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getprior.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_perror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setgrps.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ctermid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wait3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setruid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sighold.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_stddef.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysresrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftrncate.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_speedopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systwgcfl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_drem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pidcheck.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_popen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ilp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_chsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setlocale.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_table.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wcstombs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_readlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tzmin.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgsnd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tminsys.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ipc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Obsoled_h.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysun.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_seteuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_semctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memset.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scandir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mboxchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/newspool.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getlogin.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_trad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setegid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_stdint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memccpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_niin.U

```

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_uwait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_charsprf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_raster.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rdchk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_stat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syswait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmget.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systimeb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_limits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rootid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_nolnbuf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setregid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_xdrs.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_whoami.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_locale.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/vaproto.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strstr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_unistd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Getfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigblock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_syscall.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_utime.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strxfrm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bzero.U
*

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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setreuid.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Magic_h.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getgrps.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getwd.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_su_chown.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sfio.U

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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftime.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_stdlib.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_cuserid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Assert.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dbm.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syssock.U

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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_vfork.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mkfifo.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mktime.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_brokstat.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_euc2jis.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mblen.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_cbrt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rusage.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_pipe2.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setrgid.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strdup.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_string.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ffs.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_math.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tctgtpgrp.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgid.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_truncate.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc_sed.U
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- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_values.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethid.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/locdist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/defeditor.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_locconv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_lockf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nametype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_hidnet.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fchmod.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msync.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

```
Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```

?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:01:46 ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
cat
<<EOM

```

NOTE: many V7 systems do not have a way to do a non-blocking read. If you don't have any of FIONREAD, O_NDELAY, or rdchk(), the \$package package may not work as well as it might. It might not work at all.

```

EOM
fi

```

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7ND.U

1.770 kmod 31+20240202-2ubuntu7.1

1.770.1 Available under license :

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
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man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
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man/humanize_number.3bsd
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man/readpassphrase.3bsd
man/strncpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c

src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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src/getentropy_win.c
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THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.772 sqlite 3.45.1-1ubuntu2.1

1.772.1 Available under license :

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

SQLite core and like the SQLite core are in the public domain. The **TH3** test harness is a set of proprietary tests, written in proprietary fuzz tester. Other fuzzers for SQLite
Beginning in late 2018, SQLite has been fuzzed using a proprietary

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/testing.html

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

[public domain](#) and so most

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/famous.html

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

without a shared lock, other processes are free to modify the database

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/atomiccommit.html

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

This program is free software; you can redistribute it and/or
modify it under the terms of the Simplified BSD License (also
known as the "2-Clause License" or "FreeBSD License".)
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.

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/search.d/admin

* /sqlite3-3-45-1-orig-www-tar-xz/www/search

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

If N>0 then the connection is free to use more of the WAL file beyond

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/walformat.html

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

SQLite is open source, and is available in the public domain

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/books.html

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

application code is free to use these routines as well, if desired.

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/34to35.html

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

engine. The source code to SQLite is in the public domain and is available with
SQLite as a freely accessible and public domain software asset.</p>

SQLite is in the public domain and is free for any use, commercial or private.

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/pressrelease-20071212.html

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

other proprietary or non-standard VFSes.

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/uri.html

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

SQLite is high-quality, public domain software. The goal of
members can also request their own private, proprietary extensions

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/consortium.html

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

Sources are in the public domain.
or some proprietary format into

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/features.html

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

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/custombuild.html

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

<p>Public domain</p>

The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/different.html

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

public domain. No claim of ownership is made

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/faq.html

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

application is free to use the same database connection or the

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* /sqlite3-3-45-1-orig-www-tar-xz/www/c3ref/c_config_covering_index_scan.html

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

<html>

<head>

<title>SQLite Consortium Agreement</title>

</head>

<body bgcolor="white">

<h1 align="center">

SQLite Consortium Agreement

</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the ____ day of _____, 2007 ("Effective Date") by and between _____ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at

http://www.sqlite.org/

("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>

<p>The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>

<p>The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>

<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has

expressed a specific interest.

</p>

<h4>2.1.8 Code Quality</h4>

<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

</p>

<h4>2.1.9 Backwards Compatibility</h4>

<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

</p>

<h4>2.1.10

Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

<h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org in good working order and all SQLite source code shall be made freely available at such website.

</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

</p>

<h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

</p>

<h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally

review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

2.2.4 Continuity

The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

2.3 Responsibilities And Obligations Of Hwaci

2.3.1 Employer

Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

2.3.2 Responsible Party

All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

2.3.3 Multiple Developers

Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.

2.3.4 Mentorship

Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

2.3.5 Audits

Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company

and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

</p>

<h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

</p>

<h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

</p>

<h4>2.3.9

New Consortium Members</h4>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

</p>

<h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement.

Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

<h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever

other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite

Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property),

and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action.</p>

No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

8.4 Severability.

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">

<tr><td valign="top">

HWACI

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </p>

</td><td

width="10%"></td>

<td valign="top">

COMPANY

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </p>

</td></tr></table>

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/consortium_agreement-20071201.html

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

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/rtree.html

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

proprietary. The TH3 code is only accessible to SQLite developers.

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/qmplan.html

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

<h2>SQLite Is Public Domain</h2>

Public Domain

public domain

the public domain and originals of

author, and all of those authors have public domain dedications

domain and ensure that the code does not become contaminated with proprietary

public domain.

SQLite is in the public domain and does not require a license.

the public domain.

have the legal right to dedicate the SQLite to the public domain, and

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/copyright.html

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

data, so do not send the ".fullschema" output of a proprietary database

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/cli.html

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

<h2>Proprietary SQLite Extensions</h2>

public domain. But there also exist
proprietary, licensed extensions to SQLite.</p>

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/support.html

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

<html>

<title>SQLite Copyright Release Template</title>

<body bgcolor="white">

<h1 align="center">

Copyright Release for

Contributions To SQLite

</h1>

<p>

SQLite is software that implements an embeddable SQL database engine.

SQLite is available for free download from <http://www.sqlite.org/>.

The principal author and maintainer of SQLite has disclaimed all

copyright interest in his contributions to SQLite

and thus released his contributions into the public domain.

In order to keep the SQLite software unencumbered by copyright

claims, the principal author asks others who may from time to

time contribute changes and enhancements to likewise disclaim their own individual copyright interest.

</p>

<p>

Because the SQLite software found at <http://www.sqlite.org/> is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.

</p>

<p>

For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, <http://www.sqlite.org/>. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

</p>

<p>

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

</p>

<p>

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (<http://www.sqlite.org/>) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright

law.

</p>

<p>

To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.

</p>

<p>

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.

</p>

<p>

I agree never to publish any additional information to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p>

<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p> </p>

<p> </p>

<p> </p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name

(printed):

</td>

</tr>

</table>

</body>

</html>

Found in path(s):

* /sqlite3-3-45-1-orig-www-tar-xz/www/copyright-release.html

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1.773 nghttp2 1.59.0-1ubuntu0.2

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1.774 gorilla-websocket 1.5.3

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src/libsystemd/sd-journal/lookup3.c

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Files: src/udev/ata_id/ata_id.c

src/udev/cdrom_id/cdrom_id.c

src/udev/dmi_memory_id/dmi_memory_id.c

src/udev/mtd_probe/mtd_probe.c

src/udev/mtd_probe/mtd_probe.h

src/udev/mtd_probe/probe_smartmedia.c

src/udev/scsi_id/scsi.h

src/udev/scsi_id/scsi_id.c
src/udev/scsi_id/scsi_id.h
src/udev/scsi_id/scsi_serial.c
src/udev/udevadm.c
src/udev/udevadm-control.c
src/udev/udevadm.h
src/udev/udevadm-info.c
src/udev/udevadm-monitor.c
src/udev/udevadm-settle.c
src/udev/udevadm-test-builtin.c
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src/udev/udev-rules.c
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src/udev/v4l_id/v4l_id.c

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1.777 libudev 255.4-1ubuntu8.5

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: systemd

Upstream-Contact: systemd-devel@lists.freedesktop.org

Source: <https://www.freedesktop.org/wiki/Software/systemd/>

Files: *

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src/udev/mtd_probe/mtd_probe.h

src/udev/mtd_probe/probe_smartmedia.c

src/udev/scsi_id/scsi.h

src/udev/scsi_id/scsi_id.c

src/udev/scsi_id/scsi_id.h

src/udev/scsi_id/scsi_serial.c

src/udev/udevadm.c

src/udev/udevadm-control.c

src/udev/udevadm.h

src/udev/udevadm-info.c

src/udev/udevadm-monitor.c

src/udev/udevadm-settle.c

src/udev/udevadm-test-builtin.c

src/udev/udevadm-test.c

src/udev/udevadm-trigger.c

src/udev/udevadm-util.c

src/udev/udevadm-util.h

src/udev/udev-builtin-blkid.c

src/udev/udev-builtin.h

src/udev/udev-builtin-input_id.c

src/udev/udev-builtin-kmod.c

src/udev/udev-builtin-path_id.c

src/udev/udev-builtin-uaccess.c

src/udev/udev-builtin-usb_id.c

src/udev/udev-ctrl.h

src/udev/udev.c

src/udev/udev.h

src/udev/udev-event.c

src/udev/udev-event.h

src/udev/udev-node.c

src/udev/udev-node.h

src/udev/udev-rules.c

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1.778 perl-base 5.38.2-3.2build2.1

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?RCS: \$Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: startsh.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:25:31 ram

?RCS: patch61: avoid needless chatter since this is now done very early

?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:09:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
    shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
: echo "Yup, it does."
else
echo "Hmm... '$startsh' does not guarantee sh startup..."
echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startsh.U

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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setnetent_r.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_syssyscall.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysutname.U

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endgrent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_asctime_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getnetbyname_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getprotobyname_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_stdbool.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthratrj.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nearbyint.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isnanl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_copysignl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/use64bits.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtouq.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_quadmath.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nan.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_trunc.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isless.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_asinh.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysstatfs.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usequadmath.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endservent_r.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_socks.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_strtod_l.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/usethreads.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usefaststdio.U
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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/defaultincdot.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_libutil.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_ghetbyad.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lrintl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strnlen.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isinf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_j0.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isnormal.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getcwd.U

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longlong.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strftime.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setitimer.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_writev.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_hypot.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrintl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getprotby.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/atolf.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtoll.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ctime_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_qgcvt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtold.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setvbuf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/acl/d_eaccess.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getspnam_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_random_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_langinfo.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrnam_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_readdir64_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_sethostent_r.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_srand48_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_nl_langinfo_l.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_mkstemp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_log2.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrint.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sqrtl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_timegm.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fseeko.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_logb.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Protochk.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_bfd.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endnetent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_union_semun.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_acosh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isinfl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkstemps.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getmnt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlsrc.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lround.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getpwent_r.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getgrent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_crypt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_siginfo_si.U
- *

```

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localtime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/mantbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ualarm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/uselfs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_unordered.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lroundl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isnan.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getnetbyaddr_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getsrvby.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ftello.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmount.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fp_class.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fcntl_can_lock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_msghdr_s.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/socksizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_modfl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towupper.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_poll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sunmath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/libperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getaddrinfo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nl_langinfo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxfv.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/uselongdbl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysvfs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longdbl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrgid_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/time_size.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fp_class.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lrint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/longdblfiio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setgrent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnbyad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_prctl.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/quaddio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usebacktrace.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setpwent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ilogbl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localeconv_l.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socketatmark.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthread_y.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_signbit.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_crypt_r.U

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpclassl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_truncl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usedefaultstrict.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi \$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: AAAAA.U,v \$
?RCS: Revision 3.0.1.4 1994/06/20 06:50:26 ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 14:01:39 ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:01:09 ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
3.0.1.1 1993/09/13 15:43:57 ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:44 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig. For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X: HMS: Harlan Stenn
?X: RAM: Raphael Manfredi
?X: WED: Wayne Davison (was WAD by mistake--RAM)

?X: ADO: Andy Dougherty
?X: JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/AAAAA.U

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

?RCS: \$Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d_passwd.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:37:21 ram

?RCS: patch61: useless unit dropped.

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:09:51 ram

?RCS: patch32: created by ADO

?RCS:

?X:

?X: Useless unit dropped.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_passwd.U

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

/*

* This file was produced by running the config_h.SH script, which

* gets its values from \$CONFIG_SH, which is generally produced by

* running Configure.

*

* Feel free to modify any of this as the need arises. Note, however,

* that running config_h.SH again will wipe out any changes you've made.

* For a more permanent change edit \$CONFIG_SH and rerun config_h.SH.

*
* \Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi \$
*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_h.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \

Setprefixvar prefix siteprefix html3dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitehtml3dir="

?S:sitehtml3dir:

?S: This variable contains the name of the directory in which site-specific

?S: library html source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After

perl has been installed, users may install their own local

?S: library html pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitehtml3direxp="

?S:sitehtml3direxp:

?S: This variable is the same as the sitehtml3dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsitehtml3dir="

?S:installsitehtml3dir:

?S: This variable is really the same as sitehtml3direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: html3direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

```
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
"$sitehtml3dir" in
")   dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)   dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml3dir.U

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

```
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises. Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*/
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_h.U

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

```
/*|?:[\\V]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
```

```

eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*)
xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."

```

```

say=either
;;
esac
done
case "$grep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely

```

```

GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;"
*) n='-n' c="";;
esac
cat
<<FOO
They are not compatible! You are probably running ksh on a non-USG system.

```

I'll have to use \$echo instead of the builtin, since Bourne shell doesn't have echo built in and we may have to run some Bourne shell scripts. That means I'll have to use '\$n\$c' to suppress newlines now. Life is ridiculous.

FOO

```
$echo $n "The star should be here-->$c"
```

```
$echo "*"
```

```
fi
```

```
$rm -f foo1 foo2
```

```
::
```

```
esac
```

?X: The next part is irrelevant to the real process

This question was auctioned at YAPC::Europe-2007 in Vienna

I never promised you could answer it. I only auctioned the question.

```
cat <<FOO
```

The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package maintainer, the Perl community sends greetings to you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Loc.U

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

?RCS: \$Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS: patch61: added support for HPUX-10 nm output

?RCS:

?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram

?RCS: patch54: made sure only most recent version of shared lib is picked

?RCS: patch54: final "nm -p" check now uses xscan and xrun
like everybody

?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)

?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)

?RCS:

?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram

?RCS: patch36: now looks for shared libraries before anything else (ADO)

?RCS: patch36: added new nm output format (ADO)

?RCS:

?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram

?RCS: patch32: added I-type symbols for nm output parsing on Linux

?RCS:

?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram

?RCS: patch30: checks are now presented by succession of if/elif

?RCS: patch30: uniformized checks for shared objects with new so symbol

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram

?RCS: patch23: added shared library knowledge (ADO and WED)

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram

?RCS: patch16: can now export nm_extract as an internal-use only variable

?RCS:

?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram

?RCS: patch10: added special handling for Apollo
systems (WAD)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:40:03 ram

?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
so _a _o osname trnl tr sort uniq sysroot

?MAKE: -pick add \$@ %<

?S:libc:

?S: This variable contains the location of the C library.

?S:.

?S:nm_extract:

?S: This variable holds the name of the extraction command used to process

?S: the output of nm and yield the list of defined symbols. It is used

?S: internally by Configure.

?S:.

?T:thislib try libnames xxx xscan xrun thisname com tans file

?F:!libnames !libc.tmp !tmp.imp

```

?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=""
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
  get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
case "$libs" in
*-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
esac
;;
esac
case "$libs" in
") ;;
*) for thislib in $libs; do
case "$thislib" in
-lc|-lc_s)
: Handle C library specially below.
;;
-l*)
thislib=`echo $thislib | $sed -e 's/^-l//`
if try=`./loc lib$thislib.$so.*' X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $lib$thislib$_a X $libpth`; $test -f "$try"; then
:
else
try="
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib" ;;
esac

```



```

done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
"environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
set /lib/libc.$so
for xxx in $libpth; do
$test -r $1 || set $xxx/libc.$so
: The messy sed command sorts on library version numbers.
$test -r $1 || \
set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
h
s/[0-9][0-9]*/0000&/g
s/0*\([0-9][0-9][0-9][0-9]\)/\1/g
G
s/\n/ '/' | \
$sort | $sed -e 's/^.* //'^
eval set \$$#
done
$test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
$test -r $1 || set $sysroot/lib/libsys_s$_a
;;
*)
?X: ensure the test below for the (shared) C library will fail
set blurfl

```

```

;;
esac
if $test -r "$1"; then
    echo "Your (shared) C library seems to be in $1."
    libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
    ?X:
    ?X: Apollo has its C library in /lib/clib AND /lib/libc
    ?X: not to mention its math library in /lib/syslib...
    ?X:
    echo "Your C library seems to be in both /lib/clib
    and /lib/libc."
    xxx=apollo
    libc='/lib/clib /lib/libc'
    if $test -r /lib/syslib; then
        echo "(Your math library is in /lib/syslib.)"
    ?X: Put syslib in libc -- not quite right, but won't hurt
        libc="$libc /lib/syslib"
    fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
    echo "Your C library seems to be in $libc, as you said before."
    ?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
    libc=$incpath/usr/lib/libc$_a;
    echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
    libc=/lib/libc$_a;
    echo "Your C library seems to be in $libc. You're normal."
else
    if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
        :
    elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
        libnames="$libnames "`./loc clib blurfl/dyick $libpth`
    elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
        :
    elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
        :
    elif tans=`./loc
    Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
        :
    else
        tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
    fi
    if $test -r "$tans"; then
        echo "Your C library seems to be in $tans, of all places."
        libc=$tans
    else
        libc='blurfl'

```

```

fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
    dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
    dflt=""
echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM
$sed 's/^/ /' libpath
cat <<EOM

```

None of these seems to contain your C library. I need to get its name...

```

EOM
fi
fn=f
rp="Where is your C library?"
./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
    "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

```

```

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do

```

```

case $file in
*$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
*) $nm $nm_opt $file 2>/dev/null;;
esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output. (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^. * $xxx *//p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__ *//' -e 's/^([a-zA-Z_0-9]*)*.xtern.*\1/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^. *|__ *//p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^. * D __ *//p' -e 's/^. * D //p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^([a-zA-Z_0-9]*)*.xtern.*text.*\1/p';\
eval $xscan;\
$contains '^fprintf$'
libc.list >/dev/null 2>&1; then
eval $xrun

```

```

elif com="$sed -n -e 's/^.*|FUNC |GLOB .*/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
-e '/ file/d' -e 's/^([ ]*).*/1/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*/p' -e 's/^.*|FUNC |WEAK .*/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^___/' -e '/|Undef/d' -e '/|Proc/s/ .*/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^.*|Proc .|Text *| */p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([ ]*\)/$/1/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: OS/2
nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*)=.*/1/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \./p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[ ]*[D[ ]*[0-9]*.*/p';\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
else
$nm -p $* 2>/dev/null >libc.tmp
$grep fprintf libc.tmp > libc.ptf
if com="$sed -n -e 's/^.* [ADTSIW] *_[_]*/p' -e 's/^.* [ADTSIW] //p';\
eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
nm_opt='-p'

```

```

eval $xrun
else
echo " "
echo "$nm didn't seem to work right. Trying $ar instead..." >&4
com="
if $ar t $libc > libc.tmp && \
$contains '^fprintf$' libc.tmp >/dev/null 2>&1
then
for thisname in $libnames $libc; do
$ar t $thisname >>libc.tmp
done
$sed -e "s/\$_o\$//" < libc.tmp > libc.list
echo
"Ok." >&4
elif test "X$sosname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
for thisname in $libnames $libc; do
$ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries. Use emximp which will extract exactly them.
emximp -o tmp.imp $thisname \
2>/dev/null && \
$sed -e 's/^(\[_a-zA-Z0-9]*\) .*$/1/p' \
< tmp.imp >>libc.tmp
$rm -f tmp.imp
done
$sed -e "s/\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
echo "Ok." >&4
else
echo "$ar didn't seem to work right." >&4
echo "Maybe this is a Cray...trying bld instead..." >&4
if bld t $libc | \
$sed -e 's/.*\///' -e "s/\$_o:.*\///" > libc.list &&
$test -s libc.list
then
for thisname in $libnames; do
bld t $libnames | \
$sed -e 's/.*\///' -e "s/\$_o:.*\///" >>libc.list
$ar t $thisname >>libc.tmp
done
echo "Ok." >&4
else
echo
"That didn't work either. Giving up." >&4
exit 1
fi
fi
fi

```

```

fi
nm_extract="$com"
case "$PASE" in
define)
    echo " "
    echo "Since you are compiling for PASE, extracting more symbols from libc.a ..." >&4
    dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
    ;;
*) if $test -f /lib/syscalls.exp; then
    echo " "
    echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
    $sed -n 's/^\([^\ ]*\)[^\ ]*syscall[0-9]*[^\ ]*$\1/p' \
    /lib/syscalls.exp >>libc.list
    fi
    ;;
esac
;;
esac
$rm -f libnames libpath

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libc.U

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

?RCS: \$Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: etc.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:etc etcexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:etc:

?S: This variable holds the name of the directory in which the user wants

?S: to put "administrative" executable images for the package in question.

?S: It is most often a local directory such as /usr/local/etc. Programs

?S: relying on this variable must be prepared to deal with

~name

?S: substitutions.

?S:.

```
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
dflt=`./loc ./local/etc /usr/local/etc /local/etc /usr/etc /etc`
;;
*)
dflt="$etc"
;;
esac
fn=d~
rp='Where should the administrative executables go?'
./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/etc.U
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
```



```

Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ { printf "%s=%s\n", $2, $3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
<UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq. This means you too, Jarkko.
?X:
$sed -n 's/^\([a-zA-Z_0-9]*\)=.*/1/p' \
config.sh config.sh UU/oldconfig.sh \
$sort | $uniq -u >UU/oldsyms
set X `cat UU/oldsyms`
shift
case $# in
0) ;;
*)
cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
try to keep 'em...
EOM
echo ": Variables propagated from previous config.sh file." >>config.sh
for sym in `cat UU/oldsyms`; do
echo " Propagating $hint variable ""$sym..."
eval 'tmp=""${sym}""'
echo "$tmp" | \
sed -e "s/'\"/\"'/g" -e "s/^\$sym=/'" -e "s/\$/'/" >>config.sh
done
;;
esac
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X: ./warn <<EOM
?X: Problem with your C compiler: can't turn debugging on.
?X: EOM
?X:
?X: or:
?X:
?X: ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X: ***
WARNING:
?X: *** Problem with your C compiler: can't turn debugging on.
?X: ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \ $# -gt 0; then
    echo "\$@" >msg
else
    cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4

```

```
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1 1993/12/15 08:21:56 ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
?S: substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`/loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
```

```

esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
./getfile
maildir="$ans"
maildirexp="$ansexp"

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/maildir.U
```

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

?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X:

?X: This unit produces a variable that is intended to be eval'ed in

?X: order to define/undefine a symbol. A consistency check is made

?X: regarding any previous value and a warning is issued if there

?X: is any discrepancy.

?X:

?X: To use it, say:

?X: set d_siginfo_si_errno siginfo_t int si_errno \$d_sigaction signal.h

?X: eval \$hasfield_t;

?X:

?MAKE:Hasfield_t: test Compile rm_try Setvar

?MAKE: -pick add \$@ %<

?LINT:define hasfield_t

?S:hasfield_t:

?S: Internal macro for Configure

?S:.

?V:hasfield_t:

?T:varname struct type field

: Define hasfield_t macro for Configure internal use

hasfield_t='varname=\$1; struct=\$2; type=\$3; field=\$4; shift; shift; shift; shift;

while \$test \$# -ge 2; do

case

"\$1" in

\$define) echo "#include <\$2>";;

esac ;

shift 2;

done > try.c;

echo "int main () { \$struct foo; \$type bar = foo.\$field; }" >> try.c;

set try;

if eval \$compile; then

val="\$define";

```

else
  val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Hasfield_t.U
```

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

```

?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:57:25 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/31 09:33:14 ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:45 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
?X: every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
echo "First let's make sure your kit is complete. Checking..." >&4

```

?X:

?X: Files spelled uppercased and beginning with PACK are produced by the

?X: shell archive builder and may be removed by the user. Usually, they are

?X: not listed in the MANIFEST file, but you never know...

?X:

?X: "split -l" is the new way of running a split, but we also try the older way

?X:

```
awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$src/MANIFEST" | \
```

```
(split -l 50 2>/dev/null || split -50)
```

```
rm -f missing
```

```
tmppwd=`pwd`
```

```
for
```

```
filelist in x??; do
```

```
(cd "$src"; ls `cat "$tmppwd/$filelist"` \
```

```
>/dev/null 2>>"$tmppwd/missing")
```

```
done
```

```
if test -s missing; then
```

```
cat missing >&4
```

```
cat >&4 <<'EOM'
```

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the

distinct possibility that your kit is damaged, by typing 'y'es. If you

do, don't blame me if something goes wrong. I advise you to type 'n'o

and contact the author (<MAINTLOC>).

EOM

?X: Can't use \$echo at this early stage

```
echo $n "Continue? [n] $c" >&4
```

```
read ans
```

```
case "$ans" in
```

```
y*)
```

```
echo "Continuing..." >&4
```

```
rm -f missing
```

```
::
```

```
*)
```

?X:

?X: Use kill and not exit, so that the trap gets executed to clean up

?X:

```
echo "ABORTING..." >&4
```

```
kill $$
```

```
::
```

```
esac
```

```
else
```

```
echo "Looks good..."
```

```
fi
```

else

```
echo "There is no MANIFEST file. I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_MANI.U

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

?RCS: \$Id: Compile.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS:

?X:

?X: This unit is just a quick shorthand for the compile command

?X: to be used in all the other metaconfig units.

?X:

?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test

?MAKE: -pick wipe \$@ %<

?LINT:extern usedevel maintloc

?LINT:define compile compile_ok

?V:compile compile_ok mc_file

?S:compile:

?S: This shell variable is used internally by Configure to provide

?S: a convenient shorthand for the typical compile command, namely

?S: \$cc \$optimize \$ccflags \$ldflags -o \$1 \$1.c \$libs > /dev/null 2>&1

?S: Note that the output filename does not include the _exe

?S: extension. Instead we assume that the linker will be

?S: "helpful" and automatically appending the correct suffix.

?S: OS/2

users will apparently need to supply the -Zexe flag to

?S: get this behavior.

?S:

?S: To use this variable, say something like:

?S: echo 'int main() { exit(0); }' > try.c

?S: set try

?S: if eval \$compile; then

?S: echo "success" # and do whatever . . .

?S: else

?S: echo "failure" # and do whatever . . .

?S: fi

?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them

?S: in \$*, e.g.

```
?S: set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok. It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
-o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Compile.U

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

?RCS: \$Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Extract.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script which can be doted in order to extract

?X: .SH files with variable substitutions.

?X:

?X: When running

Configure from a remote directory (\$src is not '.'),

?X: then the files will be created in that directory, so beware!

?X:

?MAKE:Extract: src

?MAKE: -pick add \$@ %<

?F:./extract

?T:PERL_CONFIG_SH dir file name create mkdir_p

: script used to extract .SH files with variable substitutions

```
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
    set x `awk '{print $1}' < MANIFEST | grep '\.SH$`
else
    echo "(Looking for .SH files under the source directory.)"
    set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
    shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
if test ! -d "$name"; then
    create="$name $create";
    name=`echo $name | sed -e "s|^[^/]*$||"`;
    name=`echo $name | sed -e "s|(.*\)/.*|1|"`;
else
    name="";
fi;
done;
for file in $create; do
    mkdir $file;
done
,
```

```

for file in $*;
do
case "$src" in
".")
case "$file" in
*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\(.*)'`
(cd "$dir" && . ./file)
;;
*)
. ./file
;;
esac
;;
*)

```

?X:

?X: When running Configure remotely (\$src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:

?X: ../src/Configure -S -O -Dsomething

?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.

?X:

?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the \$installdir metaconfig
?X: symbol here since that would require too much to
be configured for

?X: this simple extraction task that may happen quickly with 'Configure -S'.

?X: -- RAM, 18/03/96

?X:

```

case "$file" in
*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\(.*)'`
(set x $dir; shift; eval $mkdir_p)
sh <"$src/$dir/$file"
;;
*)
sh <"$src/$file"
;;
esac
;;
esac
done

```



```
?X: as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^(.)*\1/'`
last=`echo $package | sed -e 's/^(.)*\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" - "`echo AbyZ | tr '[:upper:]' '[:lower:]'
2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:40 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
```

```

xxx=`./loc
rcs " $pth`
case "$xxx" in
")
rcs_branch=false
echo "Oh. You don't seem to have RCS here."
;;
*)
rcs > rcsbranch.out 2>&1
if $contains 'b\[rev\]' rcsbranch.out >/dev/null 2>&1 ; then
rcs_branch=true
echo "Nice! Your RCS is spiffy!"
else
rcs_branch=false
echo "Well, at least you have RCS. You know, a newer version is available."
fi
;;
esac

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages. It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
who distribute perl may wish to place their own
?S: man1 pages in this directory with

```

```

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
vendorman1direxp="
;;
*) : determine where vendor-supplied manual pages go.
case "$vendorman1dir" in
") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
*) dflt=$vendorman1dir ;;
esac
case "$dflt" in
"|") dflt=none ;;
esac
fn=nd~+
rp='Pathname for
the vendor-supplied manual section 1 pages?'
./getfile
vendorman1dir="$ans"
vendorman1direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
./installprefix

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: Myinit.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: If you want to initialize any default values, copy this unit to your

?X: personal U directory and add the assignments to the end. This file

?X: is included after variables are initialized but before any old

?X: config.sh file is read in and before any Configure switch processing.

?X:

?MAKE:Myinit

libswanted: Init

?MAKE: -pick add \$@ %<

?S:libswanted:

?S: This variable holds a list of all the libraries we want to

?S: search. The order is chosen to pick up the c library

?S: ahead of ucb or bsd libraries for SVR4.

?S:.

?LINT:extern usevfork glibpth

?LINT:change usevfork glibpth

: List of libraries we want.

?X: Put crypt here, even though I should really fix d_crypt.U to look

?X: for it correctly, including possible shared library versions.

: If anyone needs extra -lxxx, put those in a hint file.

libswanted="cl pthread socket bind inet ndbm gdbm dbm db malloc dl ld"

libswanted="\$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"

: We probably want to search /usr/shlib before most other libraries.

: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.

glibpth=`echo " \$glibpth " | sed -e 's! /usr/shlib ! !'`

glibpth="/usr/shlib \$glibpth"

: Do not use vfork unless overridden by a hint file.

usevfork=false

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myinit.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Finish.U,v \$
?RCS: Revision 3.0.1.6 1995/02/15 14:09:30 ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5 1994/10/29 15:53:14 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 14:19:37 ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:46:09 ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
Revision 3.0.1.2 1993/09/13 15:45:26 ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1 1993/08/30 08:55:59 ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script. It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
test package make
?MAKE: -pick add \$@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "\$alldone" in
exit)
?X: They supplied the -E switch
echo "Stopping at your request, leaving temporary files around."
exit 0
;;
cont)


```
;;
")
dflt="
nostick=true
$cat <<EOM
```

If you'd like to make any changes to the config.sh file before I begin to configure things, do it as a shell escape now (e.g. !vi config.sh).

```
EOM
rp="Press return or use a shell escape to edit config.sh:"
. UU/myread
nostick="
case "$ans" in
") ;;
*) : in case they cannot read
sh 1>&4 -c "$ans";;
esac
;;
esac
```

: if this fails, just run all the .SH files by hand
./config.sh

```
?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
./UU/extract
cd "$pwd"
```

```
if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
dflt=y
case "$silent" in
true) ;;
*)
$cat <<EOM
```

Now you need to generate make dependencies by running "\$make depend".
You might prefer to run it in background: "\$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

```
EOM
```

```

;;
esac
rp="Run $make depend now?"
. UU/myread
case "$ans" in
y*)
    $make depend
    && echo "Now you must run '$make'."
;;
*)
    echo "You must run '$make depend' then '$make'."
;;
esac
elif test -f [Mm]akefile; then
    echo " "
    echo "Now you must run a $make."
else
    echo "Configure done."
fi

if $test -f Policy.sh; then
    $cat <<EOM

```

If you compile \$package on a different machine or from a different object directory, copy the Policy.sh file from this object directory to the new one before you run Configure -- this will help you with most of the policy defaults.

```

EOM
fi
if $test -f UU/config.msg; then
    echo "Hmm. I also noted the following information while running:"
    echo " "
    $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

```

: End of Configure

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Finish.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: End.U,v \$

?RCS: Revision 3.0 1993/08/18 12:04:51 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit serves as the goal which forces make to choose all the units that

?X: ask questions. The \$W on the ?MAKE: line is the list of all symbols wanted.

?X: To force any unit to be included, copy this unit to your private U directory

?X: and add the name of the unit desired to the ?MAKE: dependency line.

?X:

?MAKE:End: \$W

?MAKE: -pick add \$@ %<

?LINT:use \$W

: end of configuration

questions

echo " "

echo "End of configuration questions."

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/End.U

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

?RCS: \$Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libdbm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:56:57 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:08:58 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines. If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
echo "-lndbm found." >&4
libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
echo "-ldbm found." >&4
libdbm='-ldbm'
else
xxx=`./loc libdbm$_a x $libpth`
case "$xxx" in
x)
echo "No dbm library found." >&4
libdbm=""
;;
*)
echo "DBM library found in $xxx." >&4
libdbm="$xxx"
;;
esac
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libdbm.U

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

```

?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```

```

?RCS:

```

```

?RCS: You may redistribute only under the terms of the Artistic License,

```

```

?RCS: as specified in the README file that comes with the distribution.

```

```

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```

```

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```

```

?RCS: of the source tree for dist 3.0.

```

```

?RCS:

```

```

?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
    recommended)
case "$hintfile" in
    ") echo "The $hint value for \$$var on this machine was \"\$was\!" ">&4
;;
*) echo "Hmm. Based on the hints in hints/$hintfile.sh, ">&4
echo "the $hint value for \$$var on this machine was \"\$was\!" ">&4
;;
esac
;;
*) echo " "
echo "**** WHOA THERE!!! ****" >&4
echo " The $hint value for \$$var on this machine was
\"$was\!" ">&4
;;
esac
rp=" Keep the $hint value?"

```

```

./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Whoa.U

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

?RCS: \$Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: Prefixup.U,v \$

?RCS: Revision 3.0.1.1 1995/01/30 14:30:40 ram

?RCS: patch49: created

?RCS:

?X:

?X: Used as: "set dflt; eval \$prefixup" to set \$dflt to be \$prefix/dir

?X: instead of \$prefixexp/dir, in case portability was involved somehow

?X: and \$prefix uses ~name expansion.

?X:

?MAKE:Prefixup: prefix prefixexp

?MAKE: -pick add \$@ %<

?LINT:define prefixup

?S:prefixup:

?S: This shell variable is used internally by Configure to reset

?S: the leading

installation prefix correctly when \$prefix uses

?S: ~name expansion.

?S: set dflt

?S: eval \$prefixup

?S: That will set \$dflt to \$prefix/dir if it was \$prefixexp/dir and

?S: \$prefix differs from \$prefixexp.

?S:.

?V:prefixup

: set the prefixup variable, to restore leading tilde escape

prefixup='case "\$prefixexp" in

"\$prefix") ;;

*) eval "\$1=\`echo \\$\$1 | sed \"s,^\$prefixexp,\$prefix,\"\"";;

esac'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Prefixup.U

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

?RCS: \$Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Inhdr.U,v \$

?RCS: Revision 3.0.1.2 1995/05/12 12:01:31 ram

?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:55:01 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:01 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks wether a set of header files exists or not.

?X: If the first header is not

found, the function tries to locate

?X: the next header, and so on, until one is found or there is no

?X: more header in the list.

?X:

?X: To use it, say:

?X: set header i_header [header2 i_header2 ...]

?X: eval \$inhdr

?X:

?MAKE:Inhdr: test Findhdr Whoa

?MAKE: -pick add \$@ %<

?LINT:define inhdr

?V:inhdr

?S:inhdr:

?S: This shell variable is used internally by Configure to check

?S: wether a set of headers exist or not. A typical use is:

?S: set header i_header [header2 i_header2 ...]

?S: eval \$inhdr

?S: That will print a message, saying wether header was found or not

?S: and set i_header* accordingly. If the first header is not found,

?S: we try the next one, until the list is empty or one is found.

```
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\\$1> found.\" ">&4";
case $# in 2) xxnf="echo \"<\\$1> NOT found.\" ">&4";;
*) xxnf="echo \"<\\$1> NOT found, ...\" ">&4";;
esac;
case
$# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
xxx=`./findhdr $1`
var=$2; eval "was=\\$2";
if $test "$xxx" && $test -r "$xxx";
then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
eval "case \"\\$var\" in $undef) . ./whoa; esac"; eval "$var=\\$td";
cont="";
else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
eval "case \"\\$var\" in $define) . ./whoa; esac"; eval "$var=\\$tu"; fi;
set $yyy; shift; shift; yyy=$@;
case $# in 0) cont="";;
2) xxf="echo \"but I found <\\$1> $instead.\" ">&4";
xxnf="echo \"and I did not find <\\$1> either.\" ">&4";;
*) xxf="echo \"but I found <\\$1> instead.\" ">&4";
xxnf="echo \"there is no <\\$1>, ...\" ">&4";;
esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\\$2";
eval "case \"\\$var\" in $define) . ./whoa; esac"; eval "$var=\\$tu";
set $yyy; shift; shift; yyy=$@;
done'
```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inhdr.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randbits.U

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

?RCS: \$Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mansrc.U,v \$

?RCS: Revision 3.0.1.9 1997/02/28 16:12:03 ram

?RCS: patch61: don't ask for AFS when they choose to not install pages

?RCS:

?RCS: Revision 3.0.1.8 1995/09/25 09:16:58 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.7 1995/02/15 14:15:31 ram

?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)

?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)

?RCS:

?RCS: Revision

3.0.1.6 1995/01/30 14:39:34 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.5 1995/01/11 15:32:25 ram

?RCS: patch45: can now use Loc variables since path stripping is deferred

?RCS:

?RCS: Revision 3.0.1.4 1994/08/29 16:30:38 ram

?RCS: patch32: now uses installation prefix for default setting

?RCS:

?RCS: Revision 3.0.1.3 1994/05/06 15:11:10 ram

?RCS: patch23: added lint hint, assuring that nroff is used

?RCS:

?RCS: Revision 3.0.1.2 1994/01/24 14:14:39 ram

?RCS: patch16: now uses _nroff in case user asked for portability

?RCS:

```

?RCS: Revision 3.0.1.1 1993/09/13 16:09:31 ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:14 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
contains the name of the directory in which manual
?S: source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
pages available in source form.
EOM
case "$nroff" in
nroff)
echo "However, you don't have nroff, so they're probably useless to you."
case "$mansrc" in
") mansrc="none";;
esac;;
esac

```

```

echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/man1"
lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
lookpath="$lookpath /usr/man/man.L"
mansrc=`./loc . $prefixexp/man/man1 $lookpath`
if $test -d "$mansrc"; then
dflt="$mansrc"
else
dflt="$sysman"
fi
set dflt
eval $prefixup
;;
') dflt=none;;
*) dflt="$mansrc"
;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
./getfile
if test
"$X$mansrcexp" != "$X$ansexp"; then
installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
installmansrc="";
esac
if $afs && $test "$mansrc"; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installmansrc" in
") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#`;;
*) dflt="$installmansrc";

```

```

esac
fn=de~
rp='Where will man pages be installed?'
. ./getfile
installmansrc="$ans"
else
installmansrc="$mansrcexp"
fi

```

```

case "$mansrc" in
  '') manext='0';;
  *l) manext=l;;
  *n) manext=n;;
  *o) manext=l;;
  *p) manext=n;;
  *C) manext=C;;
  *L) manext=L;;
  *L1) manext=L1;;
  *) manext=l;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mansrc.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: patchlevel.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:patchlevel: package baserev test rsrc

?MAKE: -pick add \$@ %<

?T:Revision

?S:patchlevel:

?S: The patchlevel level of this package.

?S: The value of patchlevel comes from the patchlevel.h file.

```
?S:
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
$src/patchlevel.h;then
patchlevel=`awk \
'/^#[ ]*define[ ]*[ ]*PATCHLEVEL/ {print $3}' \
< $src/patchlevel.h`
else
patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
?X: file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
```

```

awk '/^#define[ ]+PERL_/ {printf "%s=%s\n", $2, $3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL=$perl_patchlevel" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

```

: propagate old symbols

if \$test -f UU/config.sh; then

?X: Make sure each symbol is unique in oldconfig.sh

```
<UU/config.sh $sort | $uniq >UU/oldconfig.sh
```

?X:

?X: All the symbols that appear twice come only from config.sh (hence the

?X: two config.sh in the command line). These symbols will be removed by

?X: the uniq -u command. The oldsyms file thus contains all the symbols

?X: that did not appear in the produced config.sh (Larry Wall).

?X:

?X: Do not touch the -u flag of uniq. This means you too, Jarkko.

?X:

```
$sed -n 's/^\([a-zA-Z_0-9]*\)=.*/1/p' \
config.sh config.sh UU/oldconfig.sh
```

```
\\
```

```
$sort | $uniq -u >UU/oldsyms
```

```
set X ` $cat UU/oldsyms`
```

```
shift
```

```
case $# in
```

```
0) ;;
```

```
*)
```

```
$cat <<EOM
```

Hmm...You had some extra variables I don't know about...I'll try to keep 'em...

EOM

```
echo ": Variables propagated from previous config.sh file." >>config.sh
```

```
for sym in ` $cat UU/oldsyms`; do
```

```
echo " Propagating $hint variable """"$sym..."
```

```
eval 'tmp=""${sym}""'
```

```
echo "$tmp" | \
```

```
sed -e "s/'/'\"/g" -e "s/^\$sym=/'" -e "s/\$/'/" >>config.sh
```

```
done
```

```
::
```

```
esac
```

```
fi
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldsym.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full_ar: ar

?MAKE: -pick add \$@ %<

?S:full_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full_ar.

case "\$full_ar" in

") full_ar=\$ar ;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Loc_ar.U

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

\$Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram \$

#

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#

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that same Artistic Licence; a copy of which may be found at the root

of the source tree for dist 4.0.

#

Original Author: Larry Wall <lwall@netlabs.com>

#

\$Log: makedir.sh,v \$

Revision 3.0.1.1 1994/01/24 14:00:08 ram

patch16: changed top ln-style config.sh lookup into test-style one

#

Revision 3.0 1993/08/18 12:04:38 ram

Baseline for dist 3.0 netwide release.

#

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedir.SH

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

?RCS: \$Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: cf_name.U,v \$

?RCS: Revision 3.0.1.2 1994/05/06 14:29:36 ram

?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:05:11 ram

?RCS: patch16: created

?RCS:

?RCS:

?MAKE:+cf_name: cf_by passcat Filexp nametype cat test

?MAKE: -pick add \$@ %<

?S:cf_name:

?S: Full name of the person who ran the Configure script and

answered the

?S: questions. This can be used by units that require the user's full name.

?S: This variable is for internal use only.

?S:.

?T:xxx fn NAME

: figure out their full name

case "\$NAME" in

") case "\$nametype" in

other)

fn=`./filexp ~/.fullname`

xxx=usg

\$test -f \$fn && xxx=other

::

*)

xxx="\$nametype"

::

esac

case "\$xxx" in

bsd)

cf_name=`\$passcat | grep "^\$cf_by:" | \

sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:([^\:]*):.*\1/' \

-e 's/,.*//`

::

usg)

cf_name=`\$passcat | grep "^\$cf_by:" | \


```

sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:([^\:]*):.*\1/' \
-e 's/^[^-]*-([^\:]*)(.*)\1/'
;;
*)
cf_name=`$cat $fn`
;;
esac
;;
*)
cf_name="$NAME"
;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/rename.C

```

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

?RCS: \$Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi \$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Myread.U,v \$
?RCS: Revision 3.0.1.6 1997/02/28 15:05:39 ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5 1995/01/11 15:14:22 ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4 1994/10/31 09:48:04 ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3 1994/10/29
15:56:20 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2 1993/08/30 08:57:59 ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1 1993/08/27 14:39:20 ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:08 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read. It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, \$rp and \$dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither \$rp nor \$dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception

to this rule (Finish.U) where we

?X: set nostick to a non-empty value to allow the Return key to play its role!

?X:

?MAKE:Myread: Options startsh n c trnl

?MAKE: -pick add \$@ %<

?V:ans:dflt rp nostick

?F:./myread

?T:COLUMNS xxxm rp dflt answ aok myecho

?LINT:change fastread

?X: Some shells (Ultrix) do not understand \${COLUMNS:-80}, sigh!

: compute the number of columns on the terminal for proper question formatting

case "\$COLUMNS" in

) COLUMNS='80';;

esac

: set up the echo used in my read

?X:

?X: This variable is intended to be eval'ed. It will echo the two

?X: variables \$rp and \$dflt (provided this latter has a non null value).

?X: It is mainly used by the myread script to echo the questions.

?X:

?X: The \$n and \$c below are substituted before Loc does its silly echo check

?X: so don't put a \$ on the echo below so we get builtin, even if \$echo is

?X: pointing to /bin/echo.

?X:

myecho="case \"\\$xxxm\" in

) echo \$n \"\\$rp \$c\" >&4;;

*) case \"\\$rp\" in

) echo \$n \"[\\$xxxm] \$c\";;

*)

if

test \"echo \"\\$rp [\\$xxxm] \" | wc -c\" -ge \$COLUMNS; then

echo \"\\$rp\" >&4

echo \$n \"[\\$xxxm] \$c\" >&4

else

echo \$n \"\\$rp [\\$xxxm] \$c\" >&4

fi

::

esac;;

esac"

: now set up to do reads with possible shell escape and default assignment

cat <<EOSC >myread

\$startsh

?X:

?X: Save value of default -- do not alter original in case of eval

?X:

xxxm=\\$dflt

```

$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!
case "$fastread" in
yes) case "$dflt" in
") ;;
*) ans=";
case "$silent-$rp" in
true-) ;;
*) echo " " >&4;;
esac;;
esac;;
*) case "$silent" in
true) case "$rp" in
") ans=";;
esac;;
esac;;
esac
while expr "X$ans" : "X!" >/dev/null; do
read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
Variables must be evaluated now.
?X: Typing '$HOME' won't currently prevent from substitution -- use '$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
set x $xxxm
shift
aok="; eval "ans=\\\"$answ\\\" && aok=y
case "$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
"!")
sh 1>&4
echo " "
$myecho
;;

```

```

!*)
set x `expr "X\$ans" : "X!(.*)\$"`
shift
sh 1>&4 -c "\$*"
echo " "
$myecho
;;
"\$ans")
case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
behaviour compatible with our general scheme.
?X:
\\&*)
set x `expr "X\$ans" : "X&(.*)\$"`
shift
case "\$1" in
-d)
fastread=yes
echo "(OK, I'll run with -d after this question.)" >&4
;;
-*)
echo "*** Sorry, \$1 not supported yet." >&4
;;
esac
$myecho
ans=!
;;
esac;;
*)
case "\$aok" in
y)
echo "*** Substitution done -- please confirm."
xxm="\$ans"
ans=`echo $n "\$ans$c" | tr ' $trnl' ' '`
xxm="\$ans"
ans=!
;;
*)
echo "*** Error -- try again."
ans=!
;;
esac
$myecho
;;

```

```

esac
?X: Stick in myread if no default answer and nothing was answered
case "$ans$xxxm$nostick" in
")
  ans=!
  $myecho
  ;;
esac
done
case "$ans" in
") ans="$xxxm";;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myread.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasstruct string that is used internally

?X: by Configure to check if this system has a field for a

?X: particular struct (of if this system has a particular struct!)

?X:

?X: To use it, say something like:

?X: set d_statblocks stat i_sysstat sys/stat.h

?X: eval \$hasstruct

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/foo.h

?X: \$i_sysbar sys/bar.h

?X: \$i_syszot sys/zot.h

?X: \$i_zappa zappa.h"

?X: set d_statblocks stat \$hdrs

?X: eval \$hasstruct

?X:

?MAKE:Hasstruct: Setvar rm_try test Compile

?MAKE: -pick add \$@ %<

?T:varname struct

?V:hasstruct

: Define hasstruct macro for Configure internal use

hasstruct='varname=\$1; struct=\$2; shift;

shift;

while \$test \$# -ge 2; do

```

case "$1" in
$define) echo "#include <$2>";;
esac ;
    shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
    val="$define";
else
    val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasstruct.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: lib.U,v \$

?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram

?RCS: patch32: now uses installation prefix to set the default

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lib libexp: Getfile

Loc Oldconfig Prefixit Prefixup prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?S:lib:

?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question. It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.

?S:.

?S:libexp:

?S: This variable is the same as the lib variable, but is filename expanded

?S: at configuration time, for convenient use in your makefiles.

?S:.

: determine where public libraries go

set lib lib

eval \$prefixit

case "\$lib" in

")

dflt=`./loc . ." \$prefixexp/lib /usr/local/lib /usr/lib /lib`

set dflt

eval \$prefixup

::

*) dflt="\$lib";;

esac

echo " "

fn=d~

rp='Where do you want to put the public libraries?'

./getfile

lib="\$ans"

libexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lib.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Myread.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 15:05:39 ram

?RCS: patch61: myread script now starts with a "startsh"

?RCS: patch61: miscellaneous fixes

?RCS:

?RCS: Revision 3.0.1.5 1995/01/11 15:14:22 ram

?RCS: patch45: added & escape allowing user to turn on -d from the prompt

?RCS:
 ?RCS: Revision 3.0.1.4 1994/10/31 09:48:04 ram
 ?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
 ?RCS:
 ?RCS: Revision 3.0.1.3 1994/10/29 15:56:20 ram
 ?RCS: patch36: added ?F:
 line for metalint file checking
 ?RCS:
 ?RCS: Revision 3.0.1.2 1993/08/30 08:57:59 ram
 ?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
 ?RCS:
 ?RCS: Revision 3.0.1.1 1993/08/27 14:39:20 ram
 ?RCS: patch7: now sticks to the question when no default and empty answer
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:05:08 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?X:
 ?X: This unit produces a bit of shell code that must be dotted in in order
 ?X: to do a read. It allows for shell escapes, default assignment and
 ?X: parameter evaluation.
 ?X:
 ?X: To use this unit, \$rp and \$dflt must hold the question and the
 ?X: default answer. The question will be printed by the script itself.
 ?X: Neither \$rp nor \$dflt is altered by the script.
 ?X:
 ?X: The myread script will stick to the question if no default is proposed
 ?X: and the user answer is empty, which prevents mistakes. However, at the
 ?X: end of Configure, there is an exception to this rule (Finish.U) where we
 ?X: set
 nostick to a non-empty value to allow the Return key to play its role!
 ?X:
 ?MAKE:Myread: Options startsh n c trnl
 ?MAKE: -pick add \$@ %<
 ?V:ans:dflt rp nostick
 ?F:./myread
 ?T:COLUMNS xxxm rp dflt answ aok myecho counter
 ?LINT:change fastread
 ?X: Some shells (Ultrix) do not understand \${COLUMNS:-80}, sigh!
 : compute the number of columns on the terminal for proper question formatting
 case "\$COLUMNS" in
 ") COLUMNS='80';;
 esac

 : set up the echo used in my read
 ?X:
 ?X: This variable is intended to be eval'ed. It will echo the two
 ?X: variables \$rp and \$dflt (provided this latter has a non null value).

?X: It is mainly used by the myread script to echo the questions.

?X:

?X: The \$n and \$c below are substituted before Loc does its silly echo check

?X: so don't put a \$ on the echo below so we get builtin, even if \$echo is

?X: pointing to /bin/echo.

?X:

```
myecho="case \"\$xxm\" in
*) echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
*) echo $n \"[\$xxm] $c\";;
*)
if test `echo \"\$rp [\$xxm]
\" | wc -c` -ge $COLUMNS; then
echo \"\$rp\" >&4
echo $n \"[\$xxm] $c\" >&4
else
echo $n \"\$rp [\$xxm] $c\" >&4
fi
;;
esac;;
esac"
```

: now set up to do reads with possible shell escape and default assignment

cat <<EOSC >myread

\$startsh

?X:

?X: Save value of default -- do not alter original in case of eval

?X:

xxm=\\$dflt

\$myecho

?X:

?X: If there is no default, then stop, regardless of the value in fastread.

?X: In silent mode, no new-line is to be echoed if the question is empty,

?X: since this is used to wait for the "return" key.

?X:

ans=''

counter=42

case \"\\$fastread\" in

yes) case \"\\$dflt\" in

) ;;

*) ans=";

case \"\\$silent-\\$rp\" in

true-) ;;

*) echo " " >&4;;

esac;;

esac;;

*) case \"\\$silent\" in

true) case \"\\$rp\" in

```

") ans=";;
esac;;
esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER. Variables must be evaluated
now.
?X: Typing '$HOME' won't currently prevent from substitution -- use '$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
set x \$xxm
shift
aok="; eval "ans=\\\"$answ\\\" && aok=y
case \"$answ\" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
"!")
sh 1>&4
echo " "
$myecho
;;
!*)
set x `expr "X\$ans" : "X!(.*)" \$"`
shift
sh 1>&4 -c "\$*"
echo " "
$myecho
;;
"\$ans")
case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired behaviour compatible with
our general scheme.
?X:
\\&*)
set x `expr "X\$ans" : "X&(.*?) \$"`

```

```

shift
case "$1" in
-d)
fastread=yes
echo "(OK, I'll run with -d after this question.)" >&4
;;
-*)
echo "*** Sorry, $1 not supported yet." >&4
;;
esac
$myecho
ans=!
;;
esac;;
*)
case "$aok" in
y)
echo "*** Substitution done -- please confirm."
xxm="$ans"
ans=`echo $n "$ans$c" | tr '\n' ' '`
xxm="$ans"
ans=!
;;
*)
echo "*** Error -- try again."
ans=!
;;
esac
$myecho
;;
esac
?X: Stick in myread if no default answer and nothing was answered
case "$ans$xxm$nostick" in
")
ans=!
$myecho
;;
esac
counter=`echo $counter | awk '{ print --$0 }'`
if [ $counter = 0 ]; then
echo >&4
echo >&4 Too many attempts asking the same question. Giving up.
exit 1
fi
done
case "$ans" in
") ans="$xxm";;
esac

```

EOSC

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myread.U

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

?RCS: \$Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: usenm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram

?RCS: patch61: don't use nm with the GNU C library

?RCS: patch61: added support for Linux shared libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
nm d_gnulibc osname egrep rsrc

?MAKE: -pick add \$@ %<

?S:usenm:

?S: This variable contains 'true' or 'false' depending
whether the

?S: nm extraction is wanted or not.

?S:.

?S:runnm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction should be performed or not, according to the value

?S: of usenm and the flags on the Configure command line.

?S:.

?S:nm_opt:

?S: This variable holds the options that may be necessary for nm.

?S:.

?S:nm_so_opt:

?S: This variable holds the options that may be necessary for nm

?S: to work on a shared library but that can not be used on an

?S: archive library. Currently, this is only used by Linux, where

?S: nm --dynamic is *required* to get symbols from an ELF library which

?S: has been stripped, but nm --dynamic is *fatal* on an archive library.

?S: Maybe Linux should just always set usenm=false.

?S:.

: see if nm is to be used to determine whether a symbol is defined or not

?X: If there is enough inquiries, it might be worth to wait for the nm

?X: extraction. Otherwise, the C compilations might be a better deal.

?X:

?X: Don't bother if we're

using GNU libc -- skimo

?LINT:extern PASE

case "\$usenm" in

")

dflt="

case "\$d_gnulibc" in

"\$define")

echo " "

echo "nm probably won't work on the GNU C Library." >&4

dflt=n

::

esac

case "\$dflt" in

")

if \$test "\$osname" = aix -a "X\$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then

echo " "

echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4

echo "'nm' won't be sufficient on this system." >&4

dflt=n

fi

::

esac

case "\$dflt" in

") dflt=`\$egrep 'inlibc|csym' \$rsrc/Configure | wc -l 2>/dev/null`

if \$test \$dflt -gt 20; then

dflt=y

else

dflt=n

fi

::

esac

::

*)

case "\$usenm" in

true|\$define) dflt=y;;

*) dflt=n;;

esac

::

esac

\$cat <<EOM

I can use \$nm to extract the symbols from your C libraries. This

is a time consuming task which may generate huge output on the disk (up

to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed, this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM

```
rp="Shall I use $nm to extract C symbols from the libraries?"
```

```
. ./myread
```

```
case "$ans" in
```

```
[Nn]*) usenm=false;;
```

```
*) usenm=true;;
```

```
esac
```

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag

?X: was provided to configure (in which case we simply re-use the previous

?X: values).

```
runnm=$usenm
```

```
case "$reuseval" in
```

```
true) runnm=false;;
```

```
esac
```

: nm options which may be necessary

```
case "$nm_opt" in
```

```
") if $test -f /mach_boot; then
```

```
nm_opt=" # Mach
```

```
elif $test -d /usr/ccs/lib; then
```

```
nm_opt='-p' # Solaris (and SunOS?)
```

```
elif $test -f /dgux; then
```

```
nm_opt='-p' # DG-UX
```

```
elif $test -f /lib64/rld; then
```

```
nm_opt='-p' # 64-bit Irix
```

```
else
```

```
nm_opt="
```

```
fi;;
```

```
esac
```

: nm options which may be necessary for shared libraries but illegal

: for archive

libraries. Thank you, Linux.

```
case "$nm_so_opt" in
```

```
") case "$myuname" in
```

```
*linux*|gnu*)
```

```
if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
```

```
nm_so_opt='--dynamic'
```

```
fi
;;
esac
;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usenm.U

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

?RCS: c) the GNU General Public License as published by the Free

?RCS: Software Foundation; either version 1, or (at your option) any

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin_overflow.U

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

?RCS: \$Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libflex.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:57:48 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:07:02 ram

?RCS: patch23: now uses full library path instead of -l notation

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:13:25 ram

?RCS: patch16: un-obsolete this unit to allow smooth lex/flex compilations

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:59 ram

?RCS: Baseline for dist 3.0 netwide

release.

?RCS:

?MAKE:libflex: Loc lex libpth _a

?MAKE: -pick add \$@ %<

?S:libflex:

?S: This variable contains the argument to pass to the loader in order

?S: to get the flex/lex library routines. If there is no flex or flex

?S: library, it is null.

?S:.


```

?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
xxx=`./loc libfl$_a x $libpth`
case "$xxx" in
x)
echo "No flex library found." >&4
libflex="
;;
*)
echo "flex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*lex)
xxx=`./loc libl$_a x $libpth`
case "$xxx" in
x)
echo "No lex library found." >&4
libflex="
;;
*)
echo "lex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libflex.U

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

```

# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.

```

```
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:00 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:36 ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram
?RCS: patch49: this unit now exports file optdef.sh,
?RCS: not a variable
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
```

?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram

?RCS: patch30: now uses new me symbol to tag error messages

?RCS: patch30: new -D and -U options to define/undef symbols (JHI)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:14 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Command line parsing. It is really important that the variables used here

?X: be not listed in the MAKE line, or they will be saved in config.sh and

?X: loading this file to fetch default answers would clobber the values set

?X: herein.

?X:

?MAKE:Options: startsh

?MAKE: -pick wipe \$@ %<

?V:reuseval

alldone error realsilent silent extractsh fastread \

override knowitall: config_sh

?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu

?T:args_exp args_sep arg_exp

?F:!Configure

?F:/optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt

: Save command line options in file UU/cmdline.opt for later use in

: generating config.sh.

?X: This temporary file will be read by Oldsym.U. I used a temporary

?X: file to preserve all sorts of potential command line quotes and

?X: also because we don't know in advance how many variables we'll

?X: need, so I can't actually declare them on the MAKE line.

?X: The config_args variable won't be quite correct if Configure is

?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"

?X: since the quotes are gone by the time we see them. You'd have to

?X: reconstruct the command line from the config_arg? lines, but since

?X: I don't imagine anyone actually having to do that, I'm not going

?X: to worry too much.

cat > cmdline.opt

<<EOSH

: Configure command line arguments.

config_arg0='\$0'

config_args='\$*'

config_argc=\$#

EOSH

argn=1

args_exp="

args_sep="

for arg in "\$@"; do

cat >>cmdline.opt <<EOSH

config_arg\$argn='\$arg'

EOSH

```
?X: Extreme backslashitis: replace each ' by ''''
cat <<EOC | sed -e "s/'/'''/g" > cmdl.opt
$arg
EOC
arg_exp=`cat cmdl.opt`
args_exp="$args_exp$args_sep'$arg_exp'"
argn=`expr $argn + 1`
args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt
```

: produce awk script to parse command line options

```
cat >options.awk <<'EOF'
BEGIN {
    optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification
```

```

    len = length(optstr);
    for (i = 1; i <= len; i++) {
        c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
        if (i < len) a = substr(optstr, i + 1, 1); else a = "";
        if (a == ":") {
            arg[c] = 1;
            i++;
        }
        opt[c] = 1;
    }
}
{
    expect = 0;
    str = $0;
    if (substr(str,
1, 1) != "-") {
        printf("%s\n", str);
        next;
    }
    len = length($0);
    for (i = 2; i <= len; i++) {
        c = substr(str, i, 1);
        if (!opt[c]) {
            printf("-%s\n", substr(str, i));
            next;
        }
        printf("-%s\n", c);
        if (arg[c]) {
            if (i < len)
```

```

    printf("%s\n", substr(str, i + 1));
else
    expect = 1;
next;
}
}
}
END {
    if (expect)
        print "?";
}
EOF

```

: process the command line options

?X: Use "\$@" to keep arguments with spaces in them from being split apart.

?X: For the same reason, awk will output quoted arguments and the final eval

?X: removes them and sets a proper \$* array. An 'X' is prepended to each

?X: argument before being fed to echo to guard against 'echo -x', where -x

?X: would be understood as an echo option! It is removed before feeding awk.

set X `for arg in "\$@"; do echo "X\$arg"; done |

sed -e s/X// | awk -f options.awk`

eval "set \$*"

shift

rm -f options.awk

: set up default values

fastread="

reuseval=false

config_sh="

alldone="

error="

silent="

extractsh="

override="

knowitall="

rm

-f optdef.sh posthint.sh

cat >optdef.sh <<EOS

\$startsh

EOS

?X:

?X: Given that we now have the possibility to execute Configure remotely

?X: thanks to the new src.U support, we have to face the possibility

?X: of having to ask where the source lie, which means we need the Myread.U

?X: stuff and possibly other things that might echo something on the

?X: screen...

?X:

?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

```
: option parsing
while test $# -gt 0; do
case "$1" in
-d) shift; fastread=yes;;
-e) shift; alldone=cont;;
-f)
shift
cd ..
if test -r "$1"; then
config_sh="$1"
else
echo "$me: cannot read config file $1." >&2
error=true
fi
cd UU
shift;;
-h)
shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift; override=true;;
-S) shift; silent=true; extractsh=true;;
-D)
shift
case "$1" in
*=)
echo "$me: use '-U symbol=', not '-D symbol='." >&2
echo "$me: ignoring -D $1" >&2
;;
*=*) echo "$1" | \
sed -e "s/'\"/\"'/g" -e "s/=(.*)/=\\1/'" >> optdef.sh;;
*) echo "$1='define'" >> optdef.sh;;
esac
shift
;;
-U)
shift
case "$1" in
*=) echo "$1" >> optdef.sh;;
```

```

*=*)
echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
echo "$me: ignoring -U $1" >&2
;;
*) echo "$1='undef'" >> optdef.sh;;
esac
shift
;;
-A)
shift
xxx="
yyy="$1"
zzz="
uuu=undef
case "$yyy" in
    *=*) zzz=`echo "$yyy"|sed 's!=.*!!'^
        case "$zzz" in
            *.* ) zzz=" ;;
            *) xxx=append
                zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'^
                yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
        esac
        ;;
    esac
    case "$xxx" in
        ") case "$yyy" in
            *.* ) xxx=`echo "$yyy"|sed 's!:. *!!'^
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^
                zzz=`echo "$yyy"|sed 's!^[^=]*=!!'^
                yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
            *) xxx=`echo "$yyy"|sed 's!:. *!!'^
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^ ;;
        esac
        ;;
    esac
    case "$xxx" in
        append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
        clear)
echo "$yyy=" >> posthint.sh ;;
        define)
            case "$zzz" in
                ") zzz=define ;;
            esac
echo "$yyy=$zzz" >> posthint.sh ;;
        eval)
echo "eval \"\$yyy=$zzz\"" >> posthint.sh ;;

```

```

prepend)
echo "$yyy=\"\$zzz\${ $yyy}\" >> posthint.sh ;;
undef)
    case "$zzz" in
    ")
zzz="$uuu" ;;
esac
echo "$yyy=$zzz" >> posthint.sh ;;
    *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

```

```

case "$error" in
true)

```

```

cat >&2 <<EOM

```

Usage: \$me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]

[-U symbol] [-U symbol=] [-A command:symbol...]

-d : use defaults for all answers.

-e : go on without questioning past the production of config.sh.

-f : specify an alternate default configuration file.

-h : print this help message and exit (with an error status).

-r : reuse C symbols value if possible (skips costly nm extraction).

-s : silent mode, only echoes questions and essential information.

-D : define symbol to have some value:

-D symbol symbol gets the value 'define'

-D symbol=value

symbol gets the value 'value'

-E : stop at the end of questions, after having produced config.sh.

-K : do not use unless you know what you are doing.

-O : let -D and -U override definitions from loaded configuration file.

-S : perform variable substitutions on all .SH files (can mix with -f)

-U : undefine symbol:

-U symbol symbol gets the value 'undef'

-U symbol= symbol gets completely empty

-A : manipulate symbol after the platform specific hints have been applied:

-A symbol=value append " "value to symbol

-A append:symbol=value append value to symbol

-A define:symbol=value define symbol to have value

-A clear:symbol define symbol to be "

-A define:symbol define symbol to be 'define'


```
-A eval:symbol=value  define symbol to be eval of value
-A prepend:symbol=value prepend value to symbol
-A undef:symbol  define symbol to be 'undef'
-A undef:symbol=  define symbol to be "
-V : print version number and exit (with
a zero status).
```

```
EOM
```

```
exit 1
```

```
::
```

```
esac
```

```
?X:
```

```
?X: Unless they specified either -S or both -d and -e/E, make sure we're
```

```
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
```

```
?X: be able to handle batch configurations...
```

```
?X:
```

```
?X: We have to hardwire the Configure name and cannot use $me, since if they
```

```
?X: said 'sh <Configure', then $me is 'sh'...
```

```
?X:
```

```
: Sanity checks
```

```
case "$fastread$alldone" in
```

```
yescont|yesexit) ;;
```

```
*)
```

```
case "$extractsh" in
```

```
true) ;;
```

```
*)
```

```
if test ! -t 0; then
```

```
    echo "Say 'sh Configure', not 'sh <Configure'"
```

```
    exit 1
```

```
fi
```

```
::
```

```
esac
```

```
::
```

```
esac
```

```
?X: In silent mode, the standard output is closed. Questions are asked by
```

```
?X: outputting on file descriptor #4, which is the original stdout descriptor.
```

```
?X: This filters out all the "junk", since all the needed information is written
```

```
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
```

```
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
```

```
exec 4>&1
```

```
case "$silent" in
```

```
true)
```

```
    exec 1>/dev/null;;
```

```
esac
```

```
: run the defines and the undefines, if any, but leave the file out there...
```

```
touch optdef.sh
```

```
./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4 1995/05/12 12:06:47 ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:20:11 ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
```

?RCS:
 ?RCS: Revision 3.0.1.2 1994/10/29 16:04:29 ram
 ?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
 ?RCS: patch36: simplified gcc version checking (ADO)
 ?RCS: patch36: added ?F: line for metalint
 file checking
 ?RCS:
 ?RCS: Revision 3.0.1.1 1994/05/06 14:26:06 ram
 ?RCS: patch23: added support for gcc version (ADO)
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:05:30 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?MAKE:cc: Myread Oldconfig Checkcc test
 ?MAKE: -pick add \$@ %<
 ?S:cc:
 ?S: This variable holds the name of a command to execute a C compiler which
 ?S: can resolve multiple global references that happen to have the same
 ?S: name. Usual values are 'cc' and 'gcc'.
 ?S: Ferrent ANSI compilers may be called 'c89'. AIX has xlc.
 ?S:.
 ?F:!cc.cbu
 ?D:cc='cc'
 : Determine the C compiler to be used
 echo " "
 case "\$cc" in
 ") dflt=cc;;
 *) dflt="\$cc";;
 esac
 rp="Use which C compiler?"
 . ./myread
 cc="\$ans"

 : See whether they have no cc but they do have gcc
 . ./trygcc
 ?X: Look for a hint-file generated 'call-back-unit'. Now that the
 ?X: user has specified the compiler, we may need to set or change some
 ?X: other defaults.
 if \$test -f cc.cbu; then
 . ./cc.cbu
 fi
 . ./checkcc

 Found
 in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cc.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Csym.U,v \$

?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS: patch56: added quotes for OS/2 support

?RCS:

?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram

?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram

?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U

?RCS:

?RCS: Revision

3.0.1.1 1993/08/25 14:00:05 ram

?RCS: patch6: added ldflags as a conditional dependency and to compile line

?RCS: patch6: a final double quote was missing in csym variable after eval

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \

+cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus

?MAKE: -pick add \$@ %<

?LINT:define csym

?LINT:use libc

?LINT:extern mistrustnm

?LINT:set mistrustnm

?S:csym:

?S: This shell variable is used internally by Configure to check

?S: whether a given C symbol is defined or not. A typical use is:

?S: set symbol result [-fva] [previous]

?S: eval \$csym

?S: That will set result to 'true' if the function [-f], variable [-v]

?S: or array [-a] is defined, 'false' otherwise. If a previous value is

?S: given and the -r flag was provided on the command line, that value

?S: is reused without questioning.

?S:.

?S:extern_C:

?S: ANSI C

requires 'extern' where C++ requires 'extern "C"'. This

?S: variable can be used in Configure to do the right thing.

?S:.

?S:mistrustnm:

?S: This variable can be used to establish a fallback for the cases

?S: where nm fails to find a symbol. If usenm is false or usenm is true

?S: and mistrustnm is false, this variable has no effect. If usenm is true

?S: and mistrustnm is "compile", a test program will be compiled to try to

?S: find any symbol that can't be located via nm lookup. If mistrustnm is

?S: "run", the test program will be run as well as being compiled.

?S:.

?V:csym

?T:tval tx tlook tf tdc

?F:!try

: is a C symbol defined?

csym='tlook=\$1;

case "\$3" in

-v) tf=libc.tmp; tdc="";;

-a) tf=libc.tmp; tdc="[]";;

*) tlook="^\$1\\$"; tf=libc.list; tdc="()";;

esac;

case "\$d_cplusplus" in

 \$define) extern_C="extern \"C\"";;

 *) extern_C="extern";;

esac;

tx=yes;

case "\$reuseval-\$4" in

true-) ;;

true-*) tx=no; eval "tval=\\$4"; case "\$tval" in "") tx=yes;; esac;;

esac;

case "\$tx"

 in

 yes)

?X:

?X: Put symbol inside a printf to fool optimizing compilers...

?X:

?X: We use 'short' instead of 'int' to try to circumvent overzealous

?X: optimizing compilers using built-in prototypes for commonly used

?X: routines to complain when seeing a different external declaration. For

?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against

?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return

?X: type), the compiler assuming it's a built-in declaration given that the

?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO

?X:

?X: Let's thank GNU cc for making our lives so easy! :-)

?X: (An alternative for the future would be to use our knowledge about gcc

?X: to force a -fno-builtin option in the compile test, in case the 'short'

?X: trick is obsoleted by future gcc releases). -- RAM

```
?X:
tval=false;
if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
    tval=true;
  elif $test "$mistrustnm"
= compile -o "$mistrustnm" = run; then
  echo "$extern_C void *$1$tdc; void *(*(*p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
  $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
  $rm_try;
fi;
else
  echo "$extern_C void *$1$tdc; void *(*(*p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
fi;
;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;
;;
esac;
eval "$2=$tval"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Csym.U

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

?RCS: \$Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mailer.U,v \$

?RCS: Revision 3.0.1.3 1995/01/11 15:32:11 ram

?RCS: patch45: can now use Loc variables since path stripping is deferred

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:10:04 ram

```

?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:14:18 ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:10 ram
?RCS: Baseline for dist
3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail>".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
if $test -f "$sendmail"; then
dflt="$sendmail"
elif $test -f "$smail"; then
dflt="$smail"
elif $test -f "$rmail"; then
dflt="$rmail"
elif $test -f /bin/mail; then
dflt=/bin/mail
else
dflt=$mail
fi
;;
*) dflt="$mailer";;
esac
$cat <<EOM

```

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

```

EOM
fn=f
rp='Mail
transport agent to be used?'
../getfile
mailer="$ans"

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailler.U

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

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/baserev.U

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

?RCS: \$Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libnm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:08:26 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:01 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libnm: test Loc libpth _a


```
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines. If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
  use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
  echo "New math library found." >&4
  libnm='-lnm'
else
  ans=`./loc libnm$_a x $libpth`
  case "$ans" in
  x)
    echo "No nm library found--the normal math library will have to do." >&4
    libnm=""
    ;;
  *)
    echo "New math library found in $ans." >&4
    libnm="$ans"
    ;;
  esac
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnm.U
```

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

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
```

```
?RCS:
```

```
?X:
```

```
?X: This unit allows the duplication of the source tree to the current
```

```
?X: directory via symbolic links. This must be requested explicitly
```

```
?X: by them issuing a -Dmksymlinks on the command line.
```

```

?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if { test -f ../MANIFEST }
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
in
$define|true|[yY]*)
echo " "
case "$src" in
"|.") echo "Cannot create symlinks in the original directory." >&4
exit 1
;;
*) case "$lns:$issymlink" in
*"ln"* -s:"*"test -"?)
echo "Creating the symbolic links..." >&4
echo "(First creating the subdirectories...)" >&4
cd ..
awk '{print $1}' $src/MANIFEST | grep / | sed 's:[^/]*$::' | \
sort -u | while true
do
read dir
test -z "$dir" && break
./UU/mkdirp $dir 2>/dev/null
if test -d $dir; then
: ok
else
echo "Failed to create '$dir'. Aborting." >&4
exit 1
fi
done
echo "(Now creating the symlinks...)" >&4
awk '{print $1}' $src/MANIFEST | while true; do
read filename
test -z "$filename" && break
if test -f $filename; then
if $issymlink $filename; then
rm -f $filename
fi
fi
if test -f $filename; then
echo "$filename already exists, not symlinking."
else
?X: Note that the following works because "$pkgsrc" is absolute
ln

```

```

-s $pkgsrc/$filename $filename
fi
done
?X: Check that everything was correctly copied
echo "(Checking current directory...)" >&4
cd UU
awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
(split -l 50 2>/dev/null || split -50)
rm -f missing
tmppwd=`pwd`
for filelist in x??: do
(cd ..; ls `cat "$tmppwd/$filelist"` \
>/dev/null 2>>"$tmppwd/missing")
done
if test -s missing; then
echo "Failed duplication of source tree. Aborting." >&4
exit 1
fi
;;
*) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
;;
esac
;;
esac
;;
esac
;;
esac
@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mksymlinks.U

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

?RCS: \$Id: so.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: so.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram

?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)

?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)

?RCS:

```

?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
    variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
    dflt='sl'
else
    dflt='so'
fi
;;
*) dflt="$so";;
esac
$cat <<EOM

```

On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

```

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

```

```

: Does target system insist that shared library basenames are unique
$cat << EOM

```

Some dynamic loaders assume that the *basename* of shared library

filenames

are globally unique. We'll default this to undef as we assume your system is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'

rp='Make shared library basenames unique?'

./myread

case "\$ans" in

y|Y) val="\$define" ;;

*) val="\$undef" ;;

esac

set d_libname_unique

eval \$setvar

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/so.U

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

?RCS: \$Id: dlsrc.U,v\$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: dlex.U,v \$

?RCS:

?X: hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>

?X:

?X: To create a shared library, you must compile ALL source files in the

?X: library with +z (or possibly +Z if the library is whopping huge),

?X: then link the library with -b. Example:

?X: cc -c +z module_a.c

?X: cc -c +z module_b.c

?X: ld -b module_a.o module_b.o -o module.sl

?X:

?MAKE:dlex: \

Getfile Myread cat usedl so

?MAKE: -pick add \$@ %<

?Y:BOTTOM

?S:dlex:

?S: This variable contains the extension that is to be used for the

?S: dynamically loaded modules that perl generates.

?S:.

: Check what extension to use for shared libs

case "\$usedl" in

```
$define|y|true)
```

```
$cat <<
```

```
EOM
```

On a few systems, the dynamically loaded modules that perl generates and uses will need a different extension than shared libs. The default will probably be appropriate.

```
EOM
```

```
case "$dlex" in
```

```
  ") dflt="$so" ;;
```

```
  *) dflt="$dlex" ;;
```

```
esac
```

```
rp='What is the extension of dynamically loaded modules'
```

```
. ./myread
```

```
dlex="$ans"
```

```
::
```

```
*)
```

```
dlex="none"
```

```
::
```

```
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlex.U
```

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

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999-2000, Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: vendorman3dir.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
```

```
Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
```

```
?MAKE: -pick add $@ %<
```

```
?Y:TOP
```

```
?S:vendorman3dir:
```

```
?S: This variable contains the name of the directory for man3
```

```
?S: pages. It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this directory.
```

?S: Vendors
 who distribute perl may wish to place their own
 ?S: man3 pages in this directory with
 ?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
 ?S: or equivalent. See INSTALL for details.
 ?S:.
 ?S:vendorman3direxp:
 ?S: This variable is the ~name expanded version of vendorman3dir, so that you
 ?S: may use it directly in Makefiles or shell scripts.
 ?S:.
 ?D:installvendorman3dir="
 ?S:installvendorman3dir:
 ?S: This variable is really the same as vendorman3direxp but may differ on
 ?S: those systems using AFS. For extra portability, only this variable
 ?S: should be used in makefiles.
 ?S:.
 ?LINT:change prefixvar
 ?LINT:set installvendorman3dir
 : Set the vendorman3dir variables
 case "\$vendorprefix" in
 ") vendorman3dir="
 vendorman3direxp="
 ;;
 *) : determine where vendor-supplied module manual pages go.
 case "\$vendorman3dir" in
 ") dflt=`echo "\$man3dir" | \$sed "s#^\$prefix#\$vendorprefix#" ` ;;
 *) dflt=\$vendorman3dir ;;
 esac
 case "\$dflt" in
 "|") dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="\$ans"
 vendorman3direxp="\$ansexp"
 ;;
 esac
 : Use ' ' for none so value is preserved next time through Configure
 \$test X"\$vendorman3dir" = "X" && vendorman3dir=' '
 prefixvar=vendorman3dir
 . ./installprefix

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman3dir.U
 No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:31:14 ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc. This variable allows us to determine in a makefile
?S: if we really
    have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
|"byacc") val="$sundef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_byacc.U

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

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/multiarch.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/archlib.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_portable.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/startperl.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlpath.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/privlib.U

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

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:55 ram
?RCS: Baseline for dist 3.0 netwide
release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
syspath="/usr/share/man/man1 /usr/man/man1"
syspath="$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"
syspath="$syspath /usr/man/u_man/man1"
syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
sysman=`./loc . /usr/man/man1 $syspath`
;;
esac
if $test -d "$sysman"; then
```

```

echo "System manual is in $sysman." >&4
else
echo "Could not find manual pages in source form."
>&4
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sysman.U

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

?RCS: \$Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: siteprefix.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix

?MAKE: -pick add \$@ %<

?S:siteprefix:

?S: This variable holds the full absolute path of the directory below

?S: which the user will install add-on packages.

?S: See INSTALL for usage and examples.

?S:.

?S:siteprefixexp:

?S: This variable holds the full absolute path of the

directory below

?S: which the user will install add-on packages. Derived from siteprefix.

?S:.

?S:oldsiteprefix:

?S: This variable is set non-null if the siteprefix was previously defined

?S: and gets set to a new value. Used internally by Configure only.

?S:.

: Set the siteprefix variables

\$cat <<EOM

After \$package is installed, you may wish to install various add-on modules and utilities. Typically, these add-ons will be installed under \$prefix with the rest of this package. However, you may wish to install such add-ons elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's ok. You will be prompted for the individual locations; this siteprefix is only used to suggest the defaults.

The default should be fine for most people.

EOM

fn=d~+

rp='Installation prefix to use for add-on modules and utilities?'

: XXX Here might be another good place for an installstyle setting.

case "\$siteprefix" in

") dflt=\$prefix ;;

*) dflt=\$siteprefix

;;

esac

./getfile

: XXX Prefixit unit does not yet support siteprefix and vendorprefix

oldsiteprefix="

case "\$siteprefix" in

") ;;

*) case "\$ans" in

"\$prefix") ;;

*) oldsiteprefix="\$prefix";;

esac

;;

esac

siteprefix="\$ans"

siteprefixexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteprefix.U

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

?RCS: \$Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: nis.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram

?RCS: patch61: ensure suitable defaults for hostcat and friends

?RCS:

?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram

?RCS: patch52: continued fix for NeXT NIS/NetInfo handling

?RCS:

?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram

?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:passcat

groupcat hostcat: Myread Oldconfig test contains

?MAKE: -pick add \$@ %<

?S:passcat:

?S: This variable contains a command that produces the text of the

?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be

?S: "ypcat passwd" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

?S:groupcat:

?S: This variable contains a command that produces the text of the

?S: /etc/group file. This is normally "cat /etc/group", but can be

?S: "ypcat group" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

?S:hostcat:

?S: This variable contains a command that produces the text of the

?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be

?S: "ypcat hosts" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

:

see if we have to deal with yellow pages, now NIS.

?X: NeXT gives us some fun here, as always, by having both NIS (former YP)

?X: and NetInfo. But since it has both, it's ok to put the test inside the if.

?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.

if \$test -d /usr/etc/yp || \$test -d /etc/yp || \$test -d /usr/lib/yp; then

@if passcat || groupcat

case "\$passcat" in

nidump*) ;;

*)

case "\$passcat" in

ypcat) dflt=y;;

") if \$contains '\+' /etc/passwd >/dev/null 2>&1; then

dflt=y

else

```

    dflt=n
    fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the passwd file via yellow pages?'
. ./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'
@if groupcat
    echo "(Assuming /etc/group is also local.)"
    groupcat='cat /etc/group'
@end
;;
esac
;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case
"$hostcat" in
*ypcat*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
else
    dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
. ./myread
case "$ans" in
y*) hostcat='ypcat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac
@end

```

```

fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/nis.U

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

```

?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at

```

```

?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
$test -d $dflt || dflt=$sitebin ;;
*) dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
should be installed?'
./getfile
prefixvar=sitescript
./setprefixvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitescript.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Init.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram

?RCS: patch44: removed Options from MAKE to prevent Init overrides

?RCS: patch44: option processing now done after Myinit thanks to new Begin.U

?RCS: patch44: moved "Beginning of configuration questions" to Begin.U

?RCS: patch44: moved signal trapping instruction to Begin.U as well

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:02 ram

?RCS: Baseline for dist 3.0 netwide release.

```

?RCS:
?X:
?X: This file initializes certain default variables
    used by Configure. They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell. On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty. Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rm1ist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
    everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rm1ist=""

: We must find out about Eunice early
eunicefix=':
if test -f /etc/unixtovms; then
    eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
    eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then

```



```

: Amiga OS
_exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
_exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
_exe=".exe"
elif test -d c:/ ; then
: OS/2 or cygwin
_exe=".exe"
else
: All other UNIX systems
_exe=""
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Init.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \

Setprefixvar prefix siteprefix man3dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:siteman3dir="

?S:siteman3dir:

?S: This variable contains the name of the directory in which site-specific

?S: library man source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After

perl has been installed, users may install their own local

?S: man3 pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:siteman3direxp="

Files in this directory:

README

This file.

Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

ln-all.pl

Re-generate the all/ folder

mkglossary

A script

to regenerate Porting/Glossary. You have to manually edit the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

mksample

A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/

These are units that have to go first in the generated config_h.SH. A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.

However, config_h.SH

is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)

The a_dvisory/ directory, then, is a place to put units that need to be early in config_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like

byteorder, need to have the #defines from multiarch available.)

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/

These are units to handle perl's installation directories and related issues.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/

These are specific to threading perl.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

- a) the "Artistic License" which comes with Perl, or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License.

Clause 7 of this modified

license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided that you explicitly state where you got them from, in the source code (and, left to your courtesy, in the documentation), duplicating all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README

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

?RCS: \$Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:23:06 ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1 1993/08/24 12:24:43 ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise. It is possible to override this
?S: with a hint value or command line option,
    but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option. This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
    afs=true
    else
    afs=false
    fi
;;
esac
if $afs; then
    echo "AFS may be running... I'll be extra cautious then..." >&4
else
    echo "AFS does not seem to be running..." >&4
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/afs.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: usenm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram

?RCS: patch61: don't use nm with the GNU C library

?RCS: patch61: added support for Linux shared libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
d_gnulibc nm egrep rsrc osname Guess

?MAKE: -pick add \$@ %<

?S:usenm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction is wanted

or not.

?S:.

?S:runnm:

?S: This variable contains 'true' or 'false' depending whether the

?S: nm extraction should be performed or not, according to the value

?S: of usenm and the flags on the Configure command line.

?S:.

?S:nm_opt:

?S: This variable holds the options that may be necessary for nm.

?S:.

?S:nm_so_opt:

?S: This variable holds the options that may be necessary for nm

?S: to work on a shared library but that can not be used on an

?S: archive library. Currently, this is only used by Linux, where

?S: nm --dynamic is *required* to get symbols from an ELF library which

?S: has been stripped, but nm --dynamic is *fatal* on an archive library.

?S: Maybe Linux should just always set usenm=false.

?S:.

: see if nm is to be used to determine whether a symbol is defined or not

?X: If there is enough inquiries, it might be worth to wait for the nm

?X: extraction. Otherwise, the C compilations might be a better deal.

?X:

?X: Don't bother if we're using GNU libc -- skimo

```
case "$usenm"
in
")
dflt="
case "$d_gnulibc" in
"$define")
echo " "
echo "$nm probably won't work on the GNU C Library." >&4
dflt=n
;;
esac
case "$dflt" in
")
if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
echo " "
echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4
echo "'nm' won't be sufficient on this system." >&4
dflt=n
fi
;;
esac
case "$dflt" in
")
if ./gnu; then
echo " "
echo "Hmm... A GNU system without a GNU C Library? Weird..." >&4
dflt=n
else
dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
if $test $dflt -gt 20; then
dflt=y
else
dflt=n
fi
fi
;;
esac
;;
*)
case "$usenm" in
true|$define) dflt=y;;
*) dflt=n;;
esac
;;
esac
```

\$cat <<EOM

I can use \$nm to extract the symbols from your C libraries. This is a time consuming task which may generate huge output on the disk (up to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed, this may be the best solution.

EOM

rp='Shall I use nm to extract C symbols from the libraries?'

. ./myread

case "\$ans" in

[Nn]*) usenm=false;;

*) usenm=true;;

esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag

?X: was provided to configure (in which case we simply re-use the previous

?X: values).

runnm=\$usenm

case "\$reuseval" in

true) runnm=false;;

esac

: nm options which may be necessary

case "\$nm_opt" in

") if \$test -f /mach_boot; then

nm_opt=" # Mach

elif \$test -d /usr/ccs/lib; then

nm_opt='-p' # Solaris (and SunOS?)

elif \$test -f /dgux; then

nm_opt='-p' # DG-UX

elif \$test -f /lib64/rld; then

nm_opt='-p' # 64-bit Irix

else

nm_opt="

fi;;

esac

?X: nm options which may be necessary for shared libraries but illegal

?X: for archive libraries. Thank you,

Linux.

case "\$nm_so_opt" in

") case "\$osname" in

linux)

```

if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
  nm_so_opt='--dynamic'
fi
;;
esac
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usenm.U

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

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Null.U

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

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/metaconfig.html

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

?RCS: \$Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: patchlevel.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:patchlevel revision version subversion \

perl_patchlevel version_patchlevel_string \

api_revision api_version api_subversion api_versionstring: \

package test rsrc echo awk osname

?MAKE: -pick

add \$@ %<

?S:revision:

?S: The value of revision comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "5".

?S: In patchlevel.h, this is referred to as "PERL_REVISION".

?S:.

?S:patchlevel:

?S: The patchlevel level of this package.

?S: The value of patchlevel comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "6".

?S: In patchlevel.h, this is referred to as "PERL_VERSION".

?S:.

?S:subversion:

?S: The subversion level of this package.

?S: The value of subversion comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "1".

?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".

?S: This is unique to perl.

?S:.

?S:version:

?S: The full version number of this package, such as 5.6.1 (or 5_6_1).

?S: This combines revision, patchlevel, and subversion to get the

?S: full version number, including any possible subversions.

?S: This is suitable for use as a directory name, and hence is

?S: filesystem

dependent.

?S:.

?S:api_revision:

?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_revision is the '5'.

?S: Prior to 5.5.640, the format was a floating point number,

?S: like 5.00563.

?S:

?S: perl.c:incpush() and lib/lib.pm will automatically search in

?S: \$sitelib/.. for older directories back to the limit specified

?S: by these api_ variables. This is only useful if you have a

?S: perl library directory tree structured like the default one.

?S: See INSTALL for how this works. The versioned site_perl

?S: directory was introduced in 5.005, so that is the lowest

?S: possible value. The version list appropriate for the current

?S: system is determined in inc_version_list.U.

?S:

?S: XXX To do: Since compatibility can depend on compile time

?S: options (such as bincompat, longlong, etc.) it should

?S: (perhaps) be set by

Configure, but currently it isn't.

?S: Currently, we read a hard-wired value from patchlevel.h.

?S: Perhaps what we ought to do is take the hard-wired value from

?S: patchlevel.h but then modify it if the current Configure

?S: options warrant. patchlevel.h then would use an #ifdef guard.

?S:.

?S:api_version:

?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_version is the '6'. See api_revision for

?S: full details. As a special case, 5.5.0 is rendered in the

?S: old-style as 5.005. (In the 5.005_0x maintenance series,

?S: this was the only versioned directory in \$sitelib.)

?S:.

?S:api_subversion:

?S: The three variables, api_revision, api_version, and

?S: api_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api_subversion is the

'1'. See api_revision for

?S: full details.

?S:.

?S:api_versionstring:

?S: This variable combines api_revision, api_version, and

?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable

?S: for use as a directory name. This is filesystem dependent.

?S:.

?S:perl_patchlevel:

?S: This is the Perl patch level, a numeric change identifier,

?S: as defined by whichever source code maintenance system

?S: is used to maintain the patches; currently Perforce.

?S: It does not correlate with the Perl version numbers or

?S: the maintenance versus development dichotomy except

?S: by also being increasing.

?S:.

?S:version_patchlevel_string:

?S: This is a string combining version, subversion and

?S: perl_patchlevel (if perl_patchlevel is non-zero).

?S: It is typically something like

?S: 'version 7 subversion 1' or

?S: 'version 7 subversion 1 patchlevel 11224'

?S: It is computed here to avoid duplication of code in myconfig.SH

?S: and lib/Config.pm.

?S:.

?LINT:extern LC_ALL

?LINT:extern LANGUAGE

:

get the patchlevel

echo " "

echo "Getting the current patchlevel..." >&4

if \$test -r \$src/patchlevel.h;then

revision=`awk '/define[]+PERL_REVISION/ {print \$3}' \$src/patchlevel.h`

patchlevel=`awk '/define[]+PERL_VERSION/ {print \$3}' \$src/patchlevel.h`

subversion=`awk '/define[]+PERL_SUBVERSION/ {print \$3}' \$src/patchlevel.h`

api_revision=`awk '/define[]+PERL_API_REVISION/ {print \$3}' \$src/patchlevel.h`

api_version=`awk '/define[]+PERL_API_VERSION/ {print \$3}' \$src/patchlevel.h`

api_subversion=`awk '/define[]+PERL_API_SUBVERSION/ {print \$3}' \$src/patchlevel.h`

perl_patchlevel=`egrep ', "(MAINT|SMOKE)[0-9][0-9]*"' \$src/patchlevel.h|tail -1|sed 's/[0-9]//g`

else

revision=0

patchlevel=0

subversion=0

api_revision=0

api_version=0

api_subversion=0

perl_patchlevel=0

\$echo "(You do not have patchlevel.h. Eek.)"

fi

: Define a handy string here to avoid duplication in myconfig.SH and configpm.

version_patchlevel_string="version \$patchlevel subversion \$subversion"

case

"\$perl_patchlevel" in

0|") ;;

) perl_patchlevel=`echo \$perl_patchlevel | sed 's/. //'`

version_patchlevel_string="\$version_patchlevel_string patch \$perl_patchlevel"

;;

esac

```
$echo "(You have $package $version_patchlevel_string.)"
```

```
case "$osname" in
dos|vms)
: XXX Should be a Configure test for double-dots in filenames.
version=`echo $revision $patchlevel $subversion | \
$awk '{ printf "%d_%d_%d", $1, $2, $3 }`
api_versionstring=`echo $api_revision $api_version $api_subversion | \
$awk '{ printf "%d_%d_%d", $1, $2, $3 }`
;;
*)
version=`echo $revision $patchlevel $subversion | \
$awk '{ printf "%d.%d.%d", $1, $2, $3 }`
api_versionstring=`echo $api_revision $api_version $api_subversion | \
$awk '{ printf "%d.%d.%d", $1, $2, $3 }`
;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
api_versionstring='5.005'
fi
```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty

Copyright (c) 1999-2011, H.Merijn Brand

All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

chmod +w Configure config_h.SH Porting/Glossary Porting/config*

2. Unpack the archive containing this file in the perl5 source directory. This will create a directory 'U' under the perl5 sources. That directory will contain the metaconfig units for perl5. This will also create two files in the perl5 source tree: MANIFEST.new and .package.
3. Apply any patches to perl in the perl_patches/ directory. (This may well be empty.)
4. Obtain and install dist-3.0pl70.
4. Apply any patches to dist under the dist_patches subdirectory.
5. From your main perl5 source directory, run packinit to regenerate the .package file. **IMPORTANT:** Change the name and address of the maintainer to your own name and address. I don't want bug reports intended for you coming to me.
6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.
7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)
8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70 location. (See comments at the top.)
9. Run the Porting/mksample script to update the contents of the Porting/ subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample; see Porting/pumpkin.pod instead for current documentation on its use.
10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably

start with the randfunc.U unit included here. It's currently broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following directories:

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. I have submitted these for inclusion into the regular dist distribution. (The ccflags.U

unit is actually

perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/

This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/

These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typedef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/

These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

- a) the "Artistic License" which comes with Perl,
or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating

all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README.dist

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

?RCS: \$Id: Extras.U,v\$

?RCS:

?RCS: Copyright (c) 2001, Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:extras: Myread Oldconfig Setvar rm

?MAKE: -pick add \$@ %<

?Y:TOP

?S:extras:

?S: This variable holds a list of extra modules to install.

?S:.

: See if we want extra modules installed

echo " "

case "\$extras" in

") dflt='n';;

*) dflt='y';;

esac

cat <<EOM

Perl can be built with extra modules or bundles of modules which

will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet, or a local copy, for example a CD-ROM or a local CPAN mirror. (You will be asked later to configure the CPAN.pm module which will in turn do the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require any external software such as libraries and headers (the libz library and the zlib.h header for the Compress::Zlib module, for example) you MUST have any such software already installed, this configuration process will NOT install such things for you.

If this doesn't make any sense to you, just accept the default '\$dflt'.

EOM

```
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
cat <<EOM
```

Please list any extra modules or bundles to be installed from CPAN, with spaces between the names. The names can be in any format the 'install' command of CPAN.pm will understand. (Answer 'none', without the quotes, to install no extra modules or bundles.)

EOM

```
rp='Extras?'
dflt="$extras"
. ./myread
extras="$ans"
esac
case "$extras" in
"|none")
val=""
$rm -f ../extras.lst
;;
*) echo "(Saving the list of extras for later...)"
echo "$extras" > ../extras.lst
val="$extras"
;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Extras.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man1 used instead of man everywhere.

?X:

?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \

spackage test Getfile Prefixit prefixexp

Prefixup sysman Myread

?MAKE: -pick add \$@ %<

?Y:TOP

?S:man1dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?S:man1direxp:

?S: This variable is the same as the man1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?S:installman1dir:

?S: This variable is really the same as man1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man1ext:

?S: This variable contains the extension that the manual page should

?S: have: one of 'n', 'l', or '1'. The Makefile must supply the 'l'.

?S: See man1dir.

```

?S:.
?T:lookpath
: determine
    where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
    echo "However, you don't have nroff, so they're probably useless to you."
    case "$man1dir" in
    ") man1dir="none";;
    esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
;;
")
    lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
    lookpath="$lookpath $prefixexp/man/p_man/man1"
    lookpath="$lookpath $prefixexp/man/u_man/man1"
    lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
    case "$sysman" in
    */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
    *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
    esac
    set dflt
    eval $prefixup
    ;;
    *)
        dflt="$man1dir"
        ;;
    esac
    echo " "
    fn=dn+~
    rp="Where do the main $spackage manual pages (source) go?"
    . ./getfile
    if $test "X$man1direxp" != "X$ansexp"; then
        installman1dir="
fi

```

```

man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
installman1dir=";;
esac
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installman1dir" in
") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#`";
*) dflt="$installman1dir";
esac
fn=de~
rp='Where will man pages be installed?'
. ./getfile
installman1dir="$ans"
else
installman1dir="$man1direxp"
fi

```

: What suffix to use on installed man pages

```

case "$man1dir" in
' ')
man1ext='0'
;;
*)
rp="What suffix should be used for the main $spackage man pages?"
case "$man1ext" in
") case "$man1dir" in
*1) dflt=1 ;;
*1p)
dflt=1p ;;
*1pm) dflt=1pm ;;
*l) dflt=l;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L1) dflt=L1;;
*) dflt=1;;

```

```

esac
;;
*) dflt="$man1ext";;
esac
. ./myread
man1ext="$ans"
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man1dir.U

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?RCS: \$Log: yacc.U,v \$

?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram

?RCS: patch27: added byacc as another alternative (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:10:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test

?MAKE: -pick add \$@ %<

?S:yacc:

?S: This variable holds the name of the compiler compiler we

?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.

?S:.

?S:yaccflags:

?S: This variable contains any
additional yacc flags desired by the

?S: user. It is up to the Makefile to use this.

?S:.

?T:comp

: determine compiler compiler

echo " "

comp='yacc'

if \$test -f "\$byacc\$_exe"; then

comp="byacc or \$comp"

fi


```

if $test -f "$bison$_exe"; then
    comp="$comp or bison -y"
fi
case "$yacc" in
    ")
        yacc=`./loc yacc yacc $pth`
        if $test -f "$yacc$_exe"; then
            dflt='yacc'
        elif $test -f "$byacc$_exe"; then
            dflt='byacc'
        elif $test -f "$bison$_exe"; then
            dflt='bison'
        else
            dflt=""
        fi
        ;;
    *) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
    *bis*)
        case "$yacc" in
            *-y*) ;;
            *)
                yacc="$yacc -y"
                echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
                ;;
        esac
        ;;
esac
$cat <<EOH

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
    ") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

EOH

```
rp="Any additional yacc flags?"
```

```
./myread
```

```
case "$ans" in
```

```
none) yaccflags=";;
```

```
*) yaccflags="$ans";;
```

```
esac
```

```
@end
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/yacc.U

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?RCS: \$Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: warnflags.U,v \$

?RCS: Revision 3.0 1993/08/18 12:10:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr

?MAKE: -pick add \$@ %<

?S:warnflags:

?S: This variable contains any additional C compiler flags to generate

?S: warnings from the compiler. It is up to the Makefile to use this.

?S:.

: offer additional

warning flags for compilation

\$cat <<EOH

You may wish to compile with extra compiler warnings enabled.

Note that doing so enhances your chance of receiving your free set of steak knives, particularly if you find any bugs and report them.

If you don't want extra warnings, answer "none".

EOH

```
case "$warnflags" in
```

```
") case "$cc" in
```

```

*gcc*)
dflt="-Wall -Wno-comment"
if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
:
else
dflt="$dflt -Wno-implicit"
fi
;;
*) dflt="none";;
esac
;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

```

rp="Any \$cc flags to enable warnings?"

```

./myread
case "$ans" in
none) warnflags='';;
*) warnflags="$ans";;
esac

```

Found in path(s):

* /perl-5.38.2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/warnflags.U

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?RCS: \$Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: Warn_v7EXT.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:01:42 ram

?RCS: patch36: call ./v7 explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:17 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit issues warnings to V7 sites that they are living dangerously.

?X: This unit needs to get mentioned in End.U to get included.

?X:

?MAKE:Warn_v7EXT: package Guess

```
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
then
cat <<EOM
```

NOTE: the V7 compiler may ignore some #undefs that \$package uses. If so, you may get messages about redefining EXT. Some V7 compilers also have difficulties with #defines near buffer boundaries, so beware. You may have to play with the spacing in some .h files, believe it or not.

```
EOM
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7EXT.U
```

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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:52 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
```

```

$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
if test ! -d "$name"; then
create="$name $create"
name=`echo $name | sed -e "s|^[^/]*$||"`
name=`echo $name | sed -e "s|(.*)/.*|1|"`
else
name=""
fi
done
for file in $create; do
mkdir $file
done
EOS
chmod +x mkdirp
$unicefix mkdirp

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mkdirp.U

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

?RCS: \$Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package

?MAKE: -pick add \$@ %<

?Y:TOP

?S:packadmin:

?S: Electronic mail address of the package administrator.

?S:.

: check whether they will act as local admin for the package

\$cat <<EOM

If you or somebody else will be maintaining \$package at your site, please

fill in the correct e-mail address here so that they may be contacted

if necessary. You may enter "none"

for no administrator.

EOM

```
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
./myread
packadmin="$ans"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/packadmin.U
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```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
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?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
?RCS: undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:03 ram
```

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
test cat Myread Oldconfig Loc libpth package xlibpth so _a \
usesocks sed uselongdouble

?MAKE: -pick add \$@ %<

?S:libs:

?S: This variable holds the additional libraries we want to use.

?S: It is up to the Makefile to deal with it. The list can be empty.

?S:.

?S:libsfound:

?S: This variable holds the full pathnames of the libraries

?S: we found and accepted.

?S:.

?S:libsfiles:

?S: This variable holds the filenames aka basenames of the libraries

?S: we found and accepted.

?S:.

?S:libsdirs:

?S: This
variable holds the directory names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:ignore_versioned_solibs:

?S: This variable should be non-empty if non-versioned shared
libraries (libfoo.so.x.y) are to be ignored (because they
cannot be linked against).

?S:.

?T:xxx yyy thislib thisdir libswanted libstyle

?D:libs="

?X:

?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time. Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.

?X:

?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.

?X: -lc must proceed -lucb or -lbsd for most Solaris applications.

?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is
available.

?X:

?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.

```

?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted=""
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs=""
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
'|') dflt="";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5
socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
libsfound=""
libsfiles=""
libsdirs=""
libspath=""
for thisdir in $libpth $xlibpth; do
test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
for thisdir in $libspath; do
xxx=""
if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p`
$test -f "$xxx" && eval $libscheck

```



```

$test -f "$xxx" && libstyle=shared
xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p`
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle="import"
    fi
    if test ! -f "$xxx"; then
xxx=$thisdir/$thislib.$so$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle="import"
    fi
    if test ! -f "$xxx";
then
xxx=$thisdir/lib$thislib.$so
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
xxx=$thisdir/$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
xxx=$thisdir/lib${thislib}_s$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
xxx=$thisdir/Slib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
case "$libstyle" in
shared) echo "Found -l$thislib (shared).";;
static) echo "Found -l$thislib.";;
*)    echo "Found -l$thislib ($libstyle).";;
esac

```

```

case " $dflt " in
*" -l$thislib "*);;
*)
dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|sed -e "s%/$yyy\\$%%"`
    case " $libsdirs " in
        *" $yyy "*) ;;
        *) libsdirs="$libsdirs $yyy" ;;
    esac
    ;;
esac
break
fi
done
if $test ! -f "$xxx"; then
    echo "No -l$thislib."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
'|') dflt='none';;
esac

$cat <<EOM

```

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well. Say "none" for none. The default list is almost always right.

EOM

```

echo " "
rp="What libraries to use?"
./myread
case "$ans" in
none) libs='';;
*) libs="$ans";;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libs.U

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?RCS:

?RCS:

?X:

?X: This unit is just a quick shorthand for the compile command

?X: to be used in all the other metaconfig units.

?X:

?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs

?MAKE: -pick add \$@ %<

?LINT:define compile compile_ok

?V:compile compile_ok mc_file

?S:compile:

?S: This shell variable is used internally

by Configure to provide

?S: a convenient shorthand for the typical compile command, namely

?S: \$cc \$optimize \$ccflags \$ldflags -o \$1 \$1.c \$libs > /dev/null 2>&1

?S: Note that the output filename does not include the _exe

?S: extension. Instead we assume that the linker will be

?S: "helpful" and automatically appending the correct suffix.

?S: OS/2 users will apparently need to supply the -Zexe flag to

?S: get this behavior.

?S:

?S: To use this variable, say something like:

?S: echo 'int main() { exit(0); }' > try.c

?S: set try

?S: if eval \$compile; then

?S: echo "success" # and do whatever . . .

?S: else

?S: echo "failure" # and do whatever . . .

?S: fi

?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them

?S: in \$*, e.g.

```
?S: set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok. It is the same as $compile,
?S: except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Compile.U
```

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?RCS: \$Id\$

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?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in order

?X: to make quick check on whether the current C compiler is working.

?X:

?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test

?MAKE: -pick add \$@ %<

?S:ccname:

?S: This can set either by hints files or by Configure. If using

?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?

?S: Some platforms, however, make good use of this by storing the

?S: flavor

```

of the C compiler being used here. For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure. If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname="
?INIT:ccversion="
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
") ;;
*) $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
(void) argc;
(void) argv;
return 0;
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
:
else
echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
despair=yes
trygcc=yes
case "$cc" in
*gcc*) trygcc=no ;;
esac
case "$cc -v -c try.c 2>&1`" in
*gcc*) trygcc=no ;;
esac
if $test X"$trygcc" = Xyes; then
if gcc -o try -c try.c; then
echo " "
echo "You seem to have a working gcc, though." >&4

```

```

rp="Would you like to use it?"
dflt=y
if $test -f myread; then
    . ./myread
else
    if $test -f UU/myread; then
        . ./UU/myread
    else
        echo "Cannot find myread, sorry. Aborting." >&2
        exit 1
    fi
fi
case "$ans" in
[yY]*) cc=gcc; ccname=gcc; ccflags=""; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
    $cat *.cbu >checktmp 2>/dev/null
    if $contains ccflags checktmp >/dev/null; then

```

```

./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM

```

```

        fi;;
    esac
fi
fi
fi
$rm -f try try.*
;;
esac
EOSC

```

: generate the checkcc script for later perusal

```

cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in

```

```

") ;;
*) $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
    (void) argc;
    (void) argv;
    return 0;
}
EOM

```

```

if $cc -o try $ccflags $ldflags try.c; then
:
else
    if $test X"$despair" = Xyes; then
        echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
    fi
    $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
    exit 1
fi

$rm -f try try.*
;;
esac
EOSC

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Checkcc.U

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?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libs.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram

?RCS: patch36: removed old broken thislib/thatlib processing (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram

?RCS: patch30: code cleanup with if/elif by ADO and RAM

?RCS: patch30: undone patch23 for libswanted default

setting

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram

?RCS: patch23: now includes ordered default libswanted variable (ADO)

?RCS: patch23: major cleanup for library lookups (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram

?RCS: patch6: added default for libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
test cat Myread Oldconfig Loc libpth package xlibpth so _a \
+usesocks sed +cc +ccflags +ldflags rm

?MAKE: -pick add \$@ %<

?S:libs:

?S: This variable holds the additional libraries we want to use.

?S: It is up to the Makefile to deal with it. The list can be empty.

?S:.

?S:libsfound:

?S: This variable holds the full pathnames of the libraries

?S: we found and accepted.

?S:.

?S:libsfiles:

?S: This variable holds the filenames aka basenames of the libraries

?S: we found and accepted.

?S:.

?S:libsdirs:

?S: This variable holds the directory
names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:libscheck:

?S: This variable is intended to be set by hint files, if needed.

?S: It should contain shell code that will be eval'ed with \$xxx holding

?S: some library file. It may change \$xxx if needed.

?S: For instance, on an Irix platform, you may make sure the right

?S: library file is used depending on the cc command line, so that the

?S: correct library is used depending on the selected ABI (for 32 and

?S: 64-bit compilations).

?S:

?S: Here is an example of code that could be found in a hint file on Irix

?S: when the selected compiler was for 32-bit -- that code is put in the

?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its


```

?S: flags have been chosen:
?S:
?S: libsccheck='case "$xxx" in
?S: *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$$.o;
?S: case "`/usr/bin/file $$.o`" in
?S: *N32*)
rm -f $$.o ;;
?S: *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S: esac ;;
?S: *) case "`/usr/bin/file $xxx`" in
?S: *N32*) ;;
?S: *) xxx=/no/n32$xxx ;;
?S: esac ;;
?S: esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time. Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libsccheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "

```

```

echo "Checking for optional libraries..." >&4
case "$libs" in
'|') dflt="";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
do
for thisdir in $libspath; do
xxx="
if test ! -f "$xxx" ; then
xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then
xxx=$thisdir/$thislib$_a
$test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib${thislib}_s$_a

```

```

    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
fi
if test ! -f "$xxx"; then
xxx=$thisdir/Slib$thislib$_a
    $test -f "$xxx" && eval $libscheck
$test
-f "$xxx" && libstyle=static
fi
if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk. We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library. On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X: --RAM, 10/10/2003
?X:
if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
then
linkmsg=""
else
linkmsg=" but I can't link against it"
fi
case "$libstyle" in
shared) echo "Found -l$thislib (shared)$linkmsg." ;;
static) echo "Found -l$thislib$linkmsg." ;;
*)    echo "Found -l$thislib ($libstyle)$linkmsg." ;;
esac
case " $dflt " in
*" -l$thislib "*) ;;
*)
case "$linkmsg" in
")
dflt="$dflt -l$thislib"
libsfound="$libsfound $xxx"
yyy=`basename $xxx`
libsfiles="$libsfiles $yyy"
yyy=`echo $xxx|sed -e "s%/$yyy\\|%%"`
case " $libdirs
" in
*" $yyy "*) ;;
*) libdirs="$libdirs $yyy" ;;
esac
;;
esac
;;
esac
;;
esac

```

```

break
fi
done
if $test ! -f "$xxx"; then
    echo "No -l$thislib."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
    ") dflt="$dflt";;
    *) dflt="$libs";;
esac
case "$dflt" in
    ' ') dflt='none';;
esac
$rm -f lt.c lt

```

\$cat <<EOM

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well. Say "none" for none. The default list is almost always right.

EOM

```

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
    none) libs=' ';;
    *) libs="$ans";;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libs.U

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?RCS: of the source tree for dist 4.0.

?RCS:

```

?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
    shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
    dflt='sl'
else
    dflt='so'
fi
;;
*) dflt="$so";;
esac
$cat <<EOM

```

On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

```

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

```

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/so.U
 No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline. Otherwise it is null. Correct usage is
?S:   $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
    Otherwise it is null. Correct usage is
?S:   $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
    echo "...using -n."
    n='-n'
    c=""
else
    cat <<'EOM'
...using \c
EOM
n=""
c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $

```

```

?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
?S: links (if they are supported). It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:..
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
echo "Symbolic links are supported." >&4
lns="$ln -s"
else
echo "Symbolic links are NOT supported." >&4
lns="$ln"
fi
$rm -f blurfl sym

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```

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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Instruct.U,v \$
?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:04 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
This unit spew out the directions that we want everyone to read. I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe \$@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "\$user" in
") user=`whoami 2>&1`;;
esac
if \$contains "^\$user\$" ../.config/instruct >/dev/null 2>&1; then
firsttime=false
echo " "
rp='Would you like to see the instructions?'
dflt=n
. ./myread
case "\$ans" in
[yY]*) ;;
*) needman=false;;
esac
fi
if \$needman; then


```
cat <<EOH
```

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

EOH

```
rp="
dflt='Type carriage return to continue'
. ./myread
cat <<'EOH'
```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer will remain unchanged and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

EOH

```
. ./myread
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

?X: In case they played with the prompter...

```
dflt="Type carriage return to continue"
```

```
. ./myread
```

```
case "$firsttime" in
```

```
true) echo $user >>../.config/instruct;;
```

```
esac
```

```
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Instruct.U
```

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

* You may redistribute only under the terms of the Artistic Licence,

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.tmpl
```

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

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
```

```
#
```

```
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
#
```

```
# You may redistribute only under the terms of the Artistic Licence,
```

```
# as specified in the README file that comes with the distribution.
```

```
# You may reuse parts of this distribution only within the terms of
```

```
# that same Artistic Licence; a copy of which may be found at the root
```

```
# of the source tree for dist 4.0.
```

```
#
```

```
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
```

```
#
```

```
# $Log: errnolist.a,v $
```

```
# Revision 3.0 1993/08/18 12:04:35 ram
```

```
# Baseline for dist 3.0 netwide release.
```

```
#
```

```
#
```

```
# This is a simple-minded awk script to generate an initialization for
```

sys_errnolist on systems that don't have it.
This file now depends only on sys/errno.h error numbers under maxerr being
in order. It will complain and die if not. NOTE: It will still produce
a compilable output file, even with errors, so you must
check the output.

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.a

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extract.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script which can be doted in order to extract

?X: .SH files with variable substitutions.

?X:

?X: When running Configure from a remote directory (\$src
is not '.'),

?X: then the files will be created in that directory, so beware!

?X:

?MAKE:Extract: Mkdirp src

?MAKE: -pick add \$@ %<

?F:./extract

?T:CONFIG SRC dir file

: script used to extract .SH files with variable substitutions

cat >extract <<EOS

CONFIG=true

SRC="\$src"

EOS

cat >>extract <<'EOS'

```

echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
  set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH`
else
  echo "(Looking for .SH files under the source directory.)"
  set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
  shift
fi
for file in $*; do
  case "$SRC" in
".")
  case "$file" in
*/*)
    dir=`expr X$file : 'X\(.*)/'`
    file=`expr X$file : 'X.*\(.*)'`
    (cd $dir && . ./file)
    ;;
*)
    . ./file
    ;;
esac
;;
*)
  ?X:
  ?X: When running Configure remotely ($src is not '.'), we cannot source
  ?X: the files directly, since that would wrongly cause
  the extraction
  ?X: where the source lie instead of withing the current directory. Therefore,
  ?X: we need to 'sh <file' then, which is okay since they will source the
  ?X: existing config.sh file. It's not possible to use:
  ?X: ../src/Configure -S -O -Dsomething
  ?X: unfortunately since no new config.sh with the -Dsomething override
  ?X: will be created before running the .SH files. A minor buglet.
  ?X:
  ?X: Note that we must create the directory hierarchy ourselves if it does
  ?X: not exist already, and that is done through a shell emulation of the
  ?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
  ?X: symbol here since that would require too much to be configured for
  ?X: this simple extraction task that may happen quickly with 'Configure -S'.
  ?X: -- RAM, 18/03/96
  ?X:
  case "$file" in

```

```

*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\(.*)/'`
./mkdirp $dir
sh <"$SRC/$dir/$file"
;;
*)
sh <"$SRC/$file"
;;
esac
;;
esac
done
if
test -f "$SRC/config_h.SH"; then
if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
sh <"$SRC/config_h.SH"
fi
fi
EOS

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extract.U

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

?RCS: \$Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

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?RCS:

?RCS: \$Log: contains.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:35 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:contains: Nothing

?MAKE: -pick add \$@ %<

?S:contains:

?S: This variable holds the command to do a grep with a proper return

?S: status. On most sane systems it is simply "grep". On insane systems

?S: it is a grep followed by a cat followed by a test. This variable

?S: is primarily for the use of other Configure units.

?S:.

```

: Some
  greps do not return status, grrr.
  echo "grimblepritz" >grimble
  if grep blurfldyick grimble >/dev/null 2>&1 ; then
    contains=contains
  elif grep grimblepritz grimble >/dev/null 2>&1 ; then
    contains=grep
  else
    contains=contains
  fi
  rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
  echo " "
  echo "AGH! Grep doesn't return a status. Attempting remedial action."
  cat >contains <<'EOSS'
  grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
  EOSS
  chmod +x contains
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/contains.U

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

```

?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3 1994/10/29 16:22:50 ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:27:09 ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 15:06:01 ram
?RCS: patch23: added

```

```

trailing blank line for metalint
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer. It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
dflt=lex;;
*)
dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
rp='Which lexical analyser generator (lex or flex) shall I use?'
else
rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
in
none) lexflags="";;
*) lexflags="$ans";;
esac

@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lex.U

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

```
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
```



```

*) xxx=`./loc $xxx
  $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in

```

```

gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into
your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;"
*) n='-n' c="";;

```

```
esac
cat <<FOO
They are not compatible! You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
in and we may have to run some Bourne shell scripts. That
means I'll have to use '$n$c' to suppress newlines now. Life is ridiculous.
```

```
FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0 1993/08/18 12:04:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions. The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will be dropped, if using dynamic loading).
?S:.
?INIT:perllibs=
```

```

?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdn
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
    perllibs="$libs"
    ;;
*) case "$usedl" in
    $define|true|[yY]*)
        set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @`
        shift
        perllibs="$*"
        ;;
    *) perllibs="$libs"
        ;;
    esac
    ;;
esac

```

?X: If the user has the cppstdn wrapper, perl.c will try to call
 ?X: CPPSTDIN, but that will point to a location in the build
 ?X: directory, not the installed version!. Here, we'll just strip the
 ?X: name down to 'cppstdn',
 and rely on the fact that perl.c will
 ?X: then call SCRIPTDIR/cppstdn, but local things like 'make depend'
 ?X: will continue to work.

: Remove build directory name from cppstdn so it can be used from
 : either the present location or the final installed location.

```

echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdn" in
`pwd`/cppstdn)
    echo "Stripping down cppstdn path name"
    cppstdn=cppstdn
    ;;
esac
cd UU

```

: end of configuration questions
 echo " "
 echo "End of configuration questions."
 echo " "

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/End.U

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

?RCS: \$Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: shm_for.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:28:37 ram

?RCS: patch36: call ./Cpplib explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:46 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:shm_for shm_att shm_lim: Cpplib Myread ipc uname

?MAKE: -pick add \$@ %<

?S:shm_for:

?S: This variable tells us the type of machine we're expecting the

?S: shared memory code to run on. The value is available to C
programs

?S: in the C_SHM_FOR manifest.

?S:.

?S:shm_att:

?S: This variable tells us where a shared memory segment should be

?S: attached. Good values are HIGH, LOW, and ZERO.

?S:.

?S:shm_lim:

?S: This variable tells us if shared memory attached HIGH should

?S: have an upper limit.

?S:.

?X: -----

?X: It's a potential lose to define anything beginning with SHM...

?X: At least we can think that S_ stands for "String version of ..." -- HMS

?X: -----

?C:S_SHM_FOR ~ %<:

?C: This symbol identifies what we chose for the target system's

?C: default shared memory configuration parameters.

?C:.

?C:S_SHM_ATT ~ %<:

?C: This symbol holds the default "place" to attach shared memory.

?C: Values are "HIGH", "ZERO", and "LOW".

```

?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH. If zero, there is no upper limit.
?C:.
?H:%<:#ifdef
SERVE_SHM
?H:%<:#define S_SHM_FOR "$shm_for"
?H:%<:#define S_SHM_ATT "$shm_att"
?H:%<:#define S_SHM_LIM "$shm_lim"
?H:%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
shm_for='Default case'
shm_att='HIGH'
shm_lim='0x0'
if ./Cppsym tower32 tower32_600; then
echo "NCR Towers are usually normal..."
: echo "Oh, an NCR Tower."
: This works for the 600
shm_for='NCR Tower 32'
shm_att='LOW'
else
case "$uname" in
*/uname)
case "`uname -m`" in
ACS??68*)
echo "Oh, an Altos 3068."
shm_for='Altos 3068:'
shm_lim='0x800000'
;;
esac
;;
*)
echo "Looks normal to me..."
;;
esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
. ./myread

```

```

shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
. ./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
dflt="$shm_lim"
rp='What is
the upper address limit for shared memory?'
. ./myread
shm_lim="$ans"
;;
*)
shm_lim="
;;
esac
;;

*)
echo "but you aren't using shared memory so I won't bother." >&4
shm_for='NOT CONFIGURED'
shm_att='NONE'
shm_lim='-1'
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/shm_for.U

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

?RCS: \$Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef

val_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread

?MAKE: -pick add \$@ %<

?LINT:define typedef

?LINT:define typedef_ask

?V:typedef typedef_ask

?S:typedef:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. A typical use is:

?S: set typedef val_t default [includes]

?S: eval \$typedef

?S: That will return val_t set to default if the typedef was not found,

?S: to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

?S:typedef_ask:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. If it is not defined,

?S: this will call the ./myread script to prompt for an answer.

?S: It is intended to be used to avoid unnecessary prompts.

?S: A typical use is

?S: rp="What is the type for file position used by fsetpos()?"

?S: set fpos_t fpostype long stdio.h sys/types.h

?S: eval \$typedef_ask

?S: This

will set fpostype=fpos_t, if fpos_t is available. Otherwise

?S: it will call myread with a default of 'long', and a prompt of \$rp.

?S:.

?T:type var def inclist varval inc

?F:!temp.c

: define an is-a-typedef? function

typedef='type=\$1; var=\$2; def=\$3; shift; shift; shift; inclist=\$@;

case "\$inclist" in

"") inclist="sys/types.h";;

esac;

eval "varval=\\$\$var";

case "\$varval" in


```

""")
$rm -f temp.c;
for inc in $inclist; do
    echo "#include <$inc>" >>temp.c;
done;
?X: Maybe it's a #define instead of a typedef.
echo "#ifdef $type" >> temp.c;
echo "printf(\"We have $type\");" >> temp.c;
echo "#endif" >> temp.c;
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
if $contains $type temp.E >/dev/null 2>&1; then
    eval "$var=\$type";
else
    eval "$var=\$def";
fi;
$rm -f temp.?.;
*) eval "$var=\$varval";
esac'

```

?X: Originally, I eval'd \$typedef and then checked the results against

?X: \$type. Unfortunately, it then became complicated to check

?X: whether you are re-using

an old config.sh value, and the logic got

?X: so convoluted it became easier to just copy the function above

?X: and alter it slightly. A.D. 3/1998

: define an is-a-typedef? function that prompts if the type is not available.

```
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
```

```
case "$inclist" in
```

```
""") inclist="sys/types.h";;
```

```
esac;
```

```
eval "varval=\$${var}";
```

```
case "$varval" in
```

```
""")
```

```
$rm -f temp.c;
```

```
for inc in $inclist; do
```

```
    echo "#include <$inc>" >>temp.c;
```

```
done;
```

?X: Maybe it's a #define instead of a typedef.

```
echo "#ifdef $type" >> temp.c;
```

```
echo "printf(\"We have $type\");" >> temp.c;
```

```
echo "#endif" >> temp.c;
```

```
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
```

```
echo " " ;
```

```
echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
```

```
if $contains $type temp.E >/dev/null 2>&1; then
```

```
    echo "$type found." >&4;
```

```
    eval "$var=\$type";
```

```
else
```

```

echo "$type NOT found." >&4;
dflt="$def";
. ./myread ;
eval "$var=\$ans";
fi;
$rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

```

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:10:03 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
variable contains any additional yacc flags desired by the
?S: user. It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
dflt=yacc;;
*)

```

```

dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
    dflt="$byacc"
    comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
    comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
./myread
yacc="$ans"
case "$yacc" in
    *bis*)
        case "$yacc" in
            *_y*) ;;
            *)
                yacc="$yacc -y"
                echo "(Adding -y option to bison to get yacc-compatible behavior.)"
                ;;
        esac
    ;;
esac
;;
esac
;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
    ") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

```

EOH
rp="Any additional yacc flags?"
./myread
case "$ans" in
    none) yaccflags="";;
    *) yaccflags="$ans";;
esac

```

@end

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/yacc.U

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

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:perladmin: cf_email Oldconfig Myread cat

?MAKE: -pick add \$@ %<

?Y:TOP

?S:perladmin:

?S: Electronic mail address of the perl5 administrator.

?S:.

: Ask e-mail of administrator

\$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM

case "\$perladmin" in

") dflt="\$cf_email";;

*) dflt="\$perladmin";;

esac

rp='Perl administrator e-mail address'

./myread

perladmin="\$ans"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perladmin.U

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

?RCS: \$Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

```

?RCS: $Log: inc.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile us rinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question. It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
?S: expanded
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
dflt=`./loc . ." /usr/local/include /usr/include/local $usrinc`
;;
*) dflt="$inc"
;;
esac
fn=d~
rp="Where do you want to put the public header files?"
./getfile
inc="$ans"
incexp="$ansexp"

```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/inc.U
```

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

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: install.U,v $
```

```
?RCS: Revision 3.0.1.2 1995/09/25 09:16:37 ram
```

```
?RCS: patch59: all possible install programs are now looked for
```

```
?RCS:
```

```

?RCS: Revision 3.0.1.1 1995/01/11 15:30:41 ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
"$install" in
")
tryit="
for dir in $pth; do
for file in ginstall installbsd scoinst install; do
if $test -f $dir/$file; then
tryit="$tryit $dir/$file"
fi
done
done
$cat >try.c <<EOC
int main()
{
printf("OK\n");
exit(0);

```

```

}
EOC
if $cc -o try try.c >/dev/null 2>&1; then
    cp try try.ns
    strip try >/dev/null 2>&1
else
    echo "(I can't seem to compile a trivial C program -- bypassing.)"
    echo "try" >try
    cp try try.ns
fi
$cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\ $1 -d foo/bar
@end
$mkdir d
\ $1 -c -m 764 try.ns d
\ $1 -c -s -m 642 try.ns d/try
EOS
chmod +x tryinst
$eunicefix tryinst
dflt=""
either=""
for prog in $tryit; do
    $echo $n "Checking $prog... $c"
    ./tryinst $prog >/dev/null 2>&1
@if installdir
    if $test -d foo/bar; then
        creatdir="$prog -d"
    fi
@end
    (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
    if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
        $contains 'rwxrw-r--' tryno.ls && \
        \
        $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
    then
        dflt="$prog"
        echo "ok, that will do."
        break
    fi
    echo "not good$either."
    either=' either'
    $rm -f try*.ls
done
$rm -rf foo d tryinst try try*.ls try.*
case "$dflt" in

```

```

")
@if {test -f ../install.SH}
    echo "Hopefully, $package comes with its own install script!"
    dflt='../install'
@else
    dflt='install'
@end
;;
esac
;;
*) dflt="$install";;
esac
$cat <<EOM

```

I will be requiring a BSD-compatible install program (one that allows options like -s to strip executables or -m to specify a file mode) to install \$package.

If the question below contains a fully qualified default path, then it is probably ok. If it is an unqualified name such as 'install', then it means I was unable to find out a good install program I could use. If

```
@if {test -f ../install.SH}
```

you know of one, please tell me about it. If the default is '../install', then I shall be using the install script supplied with \$package.

```
@else
you know of one,
please tell me about it.
@end
```

```
EOM
@if {test -f ../install.SH}
fn='/fe~(install,../install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"
```

```
@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
$mkdir -p foo/bar >/dev/null 2>&1
```



```

if $test -d foo/bar; then
    echo "Great, we can build them using 'mkdir -p'."
    creatdir='mkdir -p'
else
    case "$creatdir" in
        ")
            if eval "$install -d foo/bar"; $test -d foo/bar; then
                creatdir="install -d"
                echo "It looks like '$creatdir' will do it for us."
            fi
            ;;
        *)
            eval "$creatdir foo/bar" >/dev/null 2>&1
            if $test -d foo/bar; then
                echo "Ah! We can use '$creatdir' to do just that."
            else
                creatdir="
            fi
            ;;
        esac
    fi
    $rm
    -rf foo
    case "$creatdir" in
        ")
            echo "Heck! Another ancient system lacking the comfort of modern ones!"
        @if { test -f ../install.SH}
            echo "You can thank $package for bringing you its own install script!"
            installdir='./install -d'
        @else
            echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
            installdir=mkdir
        @end
        ;;
        *) installdir="$creatdir";;
    esac
    ;;
    *) echo "As you already told me, '$installdir' should work.";;
esac

@end

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/install.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: Ins.U,v \$

?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram

?RCS: patch30: created by ADO

?RCS:

?X:

?X: This unit checks whether symbolic links are really supported.

?X: We can't rely on d_symlink because that may be listed in the

?X: C library but unimplemented.

?X:

?MAKE:lns: ln rm touch test

?MAKE: -pick add \$@ %<

?S:lns:

?S: This variable holds the name of the command to make

?S: symbolic links (if they are supported).

It can be used

?S: in the Makefile. It is either 'ln -s' or 'ln'

?S:.

: determine whether symbolic links are supported

echo " "

\$rm -f blurfl sym

\$touch blurfl

if \$ln -s blurfl sym > /dev/null 2>&1 && \$test -f sym; then

echo "Symbolic links are supported." >&4

lns="\$ln -s"

else

echo "Symbolic links are NOT supported." >&4

lns="\$ln"

fi

\$rm -f blurfl sym

Found in path(s):

* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Ins.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

```
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: $Log: Filexp.U,v $  
?RCS: Revision 3.0.1.2 1994/10/29 15:52:53 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 14:03:00 ram  
?RCS: patch23: made sure error status from csh is propagated (WED)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:53 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a shell script which will expand filenames beginning  
?X:  
with tildes. The script is deleted at the end of Configure.  
?X:  
?MAKE:Filexp: startsh sed test expr eunicefix  
?MAKE: -pick add $@ %<  
?F:./filexp  
?T:HOME LOGDIR dir me name failed  
: set up shell script to do ~ expansion  
cat >filexp <<EOSS  
$startsh  
: expand filename  
?X:  
?X: The case entries below escape the ~ as some shells have shown expansion  
?X: of the ~ during here-doc processing.  
?X:  
case "$1" in  
~/*/~)  
echo \ $1 | $sed "s|~|\${HOME-\$LOGDIR}|"   
;;  
~*)  
if $test -f /bin/csh; then  
/bin/csh -f -c "glob \ $1"  
failed=\ $?  
echo ""  
exit \ $failed  
else  
name=\`$expr x\ $1 : '..\([^/]*\)\  
dir=\`$sed -n -e "/^\$ {name}:/ { s/^[:]*:[^:]*:[:]*:[^:]*:[:]*:\([[:]]*\).*$""$/1/" -e p -e q -e '}' </etc/passwd\  
if $test ! -d "\ $dir"; then
```

```

me=\`basename \$0\`
echo "\$me: can't locate home directory for: \$name" >&2
exit 1
fi
case "$1" in
*)
echo \$dir/\`$expr x\$1 : '^[^/*^/\.*)\`
;;
*)
echo \$dir
;;
esac
fi
;;
*)
echo \$1
;;
esac
EOSS
chmod
+x filexp
$unicefix filexp

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Filexp.U

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

?RCS: You may redistribute only under the terms of the Artistic License,

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bitpbyte.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/instubperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sig_name.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/modetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sitelib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_wcrtomb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_gethostprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_ndbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_sh.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prefix.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_htonl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_access.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endpent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sbrksmart.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/pidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/intsize.U

```

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usrinc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_NOFILE.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_statblks.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Guess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endsent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Tr.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endhent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getespsnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sockopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_casti32.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/acl/i_sysaccess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Signal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ldbl_dig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ssizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sbrksmart.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_vprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethbynm.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorbin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/pager.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_netinettcp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strctcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/selecttype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/doublesize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/voidflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigaction.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Devel.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sresuproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/selectminbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cppstdin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/errnolist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpwent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ptrsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/gccvers.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/floatsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ssizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_inttypes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_vprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/bin.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_safemcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_vfork.U

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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endnent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setpgrp.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/abortsig.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_eofpipe.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sgndchr.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_usleepproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setsent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_lchown.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_closedir.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isblank.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_htonl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_sethent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_inttypes.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_lseekproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/uidtype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/otherlibdirs.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_time.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/scriptdir.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_malloc.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Tr.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_keepsig.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prototype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_stdstdio.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_strtoul.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/myhostname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_csh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cppsym.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_isascii.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/sizesize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cross.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_closedir.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_wifstat.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_gconvert.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/randfunc.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/issymlink.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_csh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/modetype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorlib.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_snprintf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sresgproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpagsz.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setpent.U

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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_casti32.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sigprocmask.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_telldirproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_time.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/need_va_copy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpu.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Findhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_safebcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysmman.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpostype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/byteorder.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_dirent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gnulibc.U
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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mallocsrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtoul.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_drand48proto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_pwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_pthread_attr_ss.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrtowc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_scannl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_malloc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_gnulibc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_castneg.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/voidflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/privlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_ndbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_wcscmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uibase.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/alignbytes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_c99_variadic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/charorder.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strerror.U
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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/stdchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fd_set.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_access.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_eofpipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_stuff.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Signal.U

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- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_open3.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_safemcpy.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_vfork.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_attribut.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_statblks.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_sh.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/stdio_streams.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/gidtype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bin.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sgndchr.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_backtrace.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_madvise.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scannl.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_open3.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ptrsize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getsent.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_gai_strerror.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/orderlib.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sbrkproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/src.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_safebcpy.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/fpostype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_malloc_size.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sunscanf.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorarch.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_isascii.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dlopen.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/doublesize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_db.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ccflags.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_volatile.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/acl/i_syssecre.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_volatile.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_stdstdio.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmat.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/fflushall.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/nblock_io.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dbminiproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/i_machcthr.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socketmarkproto.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethbynm.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/inc_version_list.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getprotoprotos.U

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/abortsig.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/charsize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/gccvers.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_poll.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/i_time.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/d_time.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dlopen.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/prefix.U
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- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dosuid.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shmat.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dir_dd_fd.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strftime.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/byteorder.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lseektype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/cppstdin.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitearch.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_termio.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libpth.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/i_pthread.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_castneg.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_flexfnam.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_attribut.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/myhostname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/archname.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sizetype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nanosleep.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_wcsxfrm.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/fpu.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mprotect.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/cpp_stuff.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_flexfnam.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mallocmalloc.U
- *
- /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/mallocsrc.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/errnolist.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sockopt.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/scriptdir.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usesocks.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_voidsig.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/st_dev_def.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memchr.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/models.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/lseektype.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/floatsize.U
- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sig_name.U
- *

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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getpent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gconvert.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldconfig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_execinfo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/charsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_snprintf_1.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sunscanf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_wctype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/charorder.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dirfd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_mmap.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_bitfield.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_voidsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getservprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/perlpath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_varhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldconfig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnntent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigaction.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setnntent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d__fwalk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_varhdr.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/st_ino_def.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ebcdic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_fd_set.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_db.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socklen_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dirent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_syscallproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_grp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wifstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_int64_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shm.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrlen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/randbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/selecttype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usrinc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sanemcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dladdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitelib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/models.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randfunc.U

```

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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sanemcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getnetprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidtype.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_netrno.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/bitpbyte.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_portable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getspnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Guess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_pwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_const.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_netrno.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/alignbytes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getprpwnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_flockproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/sizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/pidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/fposize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_static_inline.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ccflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Cppsym.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ustat.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_wchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_keepsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sitearch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_u32align.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lc_monetary_2008.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_grp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_getpagsz.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nblock_io.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorscript.U
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```

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cf_who.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:28:50 ram

?RCS: patch61: new computation method avoiding use of temporary file

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:42:34 ram

?RCS: patch23: login name now computed the hard way

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:32 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Oldconfig dependency is there to ensure computation occurs after old values

?X: from config.sh have been loaded, so that we can supersede them.

?X:

?MAKE:cf_time

cf_by: date Oldconfig

?MAKE: -pick add \$@ %<

?S:cf_time:

?S: Holds the output of the "date" command when the configuration file was

?S: produced. This is used to tag both config.sh and config_h.SH.

?S:.

?S:cf_by:

?S: Login name of the person who ran the Configure script and answered the

?S: questions. This is used to tag both config.sh and config_h.SH.

?S:.

?LINT:change LC_ALL LANGUAGE

: who configured the system

?X: Ensure English date -- Jarkko Hietaniemi

cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; \$date 2>&1`

?X:

?X: Leave a white space between first two '(' for ksh. The sub-shell is needed

?X: on some machines to avoid the error message when logname is not found; e.g.

?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was

?X: not found. Sigh!

?X:

?X: Convex had a broken logname executable which returned a non-zero status,

?X: and that broke the previous:

?X: cf_by=`(logname) 2>/dev/null || whoami) 2>&1`

?X: Switch to emergency

mode... -- RAM, 19/04/94

?X:

?X: Parentheses needed to avoid error message if the program does not exist.

?X: Uses case instead of \$test so it can be put before \$test is defined.

?X: Don't redirect to a file because on Ultrix (under script?) logname

?X: outputs a blank line first. This method will apparently work.

```
case "$cf_by" in
```

```
"")
```

```
cf_by=`(logname) 2>/dev/null`
```

```
case "$cf_by" in
```

```
"")
```

```
cf_by=`(whoami) 2>/dev/null`
```

```
case "$cf_by" in
```

```
"" ) cf_by=unknown ;;
```

```
esac ;;
```

```
esac ;;
```

```
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_who.U

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?RCS:

?RCS: \$Log: Whoa.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram

?RCS: patch61: whoa script now starts with leading "startsh"

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:19 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to warn the user in case a change into a variable is noticed.

?X:

?X: To use this

```

unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo " The $hint value for \$$var on this machine was \"$was\"!" >&4
rp=" Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Whoa.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir="
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific

```

?S: html source pages are to be put. It is the responsibility of the
 ?S: Makefile.SH to get the value of this into the proper command.
 ?S: You must be prepared to do the ~name expansion yourself.
 ?S: The standard distribution will put nothing in this directory.
 ?S: After perl
 has been installed, users may install their own local
 ?S: html pages in this directory with
 ?S: MakeMaker Makefile.PL
 ?S: or equivalent. See INSTALL for details.
 ?S:.
 ?D:sitehtml1direxp="
 ?S:sitehtml1direxp:
 ?S: This variable is the same as the sitehtml1dir variable, but is filename
 ?S: expanded at configuration time, for convenient use in makefiles.
 ?S:.
 ?D:installsitehtml1dir="
 ?S:installsitehtml1dir:
 ?S: This variable is really the same as sitehtml1direxp, unless you are using
 ?S: AFS in which case it points to the read/write location whereas
 ?S: html1direxp only points to the read-only access location. For extra
 ?S: portability, you should only use this variable within your makefiles.
 ?S:.
 ?LINT:change prefixvar
 ?LINT:set installsitehtml1dir
 ?LINT:set sitehtml1dir
 ?LINT:set sitehtml1direxp
 : determine where add-on html pages go
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 case "\$sitehtml1dir" in
 ")
 dflt=`echo "\$html1dir" | \$sed "s#^\$prefix#\$siteprefix#"` ;;
 *) dflt=\$sitehtml1dir ;;
 esac
 case "\$dflt" in
 "| ") dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname where the site-specific html pages should be installed?'
 ./getfile
 prefixvar=sitehtml1dir
 ./setprefixvar

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml1dir.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sysman.U,v \$

?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram

?RCS: patch30: now explicitly states that /usr/man/man1 is the default

?RCS: patch30: added /usr/local/man/man1 to the search list

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram

?RCS: patch10: added support for /local/man/man1 (WAD)

?RCS: patch10: added temporary syspath variable to cut down on line length

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:55 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:sysman: test

Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:sysman:

?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.

?S:.

?T:syspath

: determine where manual pages are on this system

echo " "

case "\$sysman" in

")

syspath='/usr/share/man/man1 /usr/man/man1'

syspath="\$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"

syspath="\$syspath /usr/man/u_man/man1 /usr/share/man/man1"

syspath="\$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"

syspath="\$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"

syspath="\$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"

sysman=`./loc . /usr/man/man1 \$syspath`

::

esac

if \$test -d "\$sysman"; then

echo "System manual is in \$sysman." >&4

else

echo "Could not find manual pages in source form." >&4

Found

in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sysman.U

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

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigsetjmp.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetjmp.U

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

?RCS: \$Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: vendorprefix.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \

Getfile Loc Oldconfig cat prefix Myread

?MAKE: -pick add \$@ %<

?S:usevendorprefix:

?S: This variable tells whether the vendorprefix

?S: and consequently other vendor* paths are in use.

?S:.

?S:vendorprefix:

?S: This variable holds the full absolute path of the directory below

?S: which

the vendor will install add-on packages.

?S: See INSTALL for usage and examples.

?S:.

?S:vendorprefixexp:

?S: This variable holds the full absolute path of the directory below

?S: which the vendor will install add-on packages. Derived from vendorprefix.

?S:.

?S:oldvendorprefix:

?S: This variable is set non-null if the vendorprefix was previously defined

?S: and gets set to a new value. Used internally by Configure only.

?S:.

: Set the vendorprefix variables

\$cat <<EOM

The installation process will also create a directory for vendor-supplied add-ons. Vendors who supply perl with their system may find it convenient to place all vendor-supplied files in this directory rather than in the main distribution directory. This will ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see fit. For example, you might use them to access modules shared over a company-wide network.

The default answer should be
fine for most people.

This causes further questions about vendor add-ons to be skipped and no vendor-specific directories will be configured for perl.

EOM

```
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
case "$vendorprefix" in
"|" ' ') dflt=n ;;
*) dflt=y ;;
esac
;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
rp='Installation prefix to use for vendor-supplied add-ons?'
case "$vendorprefix" in
") dflt="$prefix" ;;
*) dflt=$vendorprefix ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldvendorprefix=""
case "$vendorprefix" in
") ;;
*) case "$ans" in
"$prefix") ;;
*) oldvendorprefix="$prefix";;
esac
```

```
;;
esac
usevendorprefix="$define"
vendorprefix="$ans"
vendorprefixexp="$ansexp"
;;
*) usevendorprefix="$undef"
vendorprefix=""
vendorprefixexp=""
;;
esac
```

Found in path(s):

*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorprefix.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extractall.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram

?RCS: patch61: created

?RCS:

?X:

?X: If extraction has been requested, load the configuration file, perform

?X: the extraction and exit.

?X:

?X: This unit was originally a part of Options.U. It had to be removed from

?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract

?X: The Begin.U unit now requires us before beginning to do anything

?X: interesting, to ensure proper semantics. -- RAM, 15/03/96

?X:

?MAKE:Extractall:

Extract Options

?MAKE: -pick wipe \$@ %<

: extract files and exit if asked to do so

case "\$extractsh" in

true)

?X: Undo the forced silent=true when -S was supplied, by probing realsilent

?X: which was set iff -s was also given. See Options.U for details.

```

case "$realsilent" in
true) ;;
*) exec 1>&4;;
esac
case "$config_sh" in
") config_sh='config.sh';;
esac
echo " "
echo "Fetching answers from $config_sh..."
cd ..
. $config_sh
test "$override" && . ./optdef.sh
echo " "
?X: extract has to be run from the top directory, not within UU.
. UU/extract
rm -rf UU
echo "Extraction done."
exit 0
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extractall.U

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

?RCS: \$Id: html1dir.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: html1dir.U,v \$

?RCS:

?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \

spackage test Getfile Setprefixvar Prefixit Prefixup

?MAKE: -pick add \$@ %<

?Y:TOP

?D:html1dir="

?S:html1dir:

?S: This variable contains the name of the directory in which html

?S: source pages are to be put. This directory is for pages

?S: that describe whole programs, not libraries or modules. It

?S: is intended to correspond roughly to section 1 of the Unix

?S: manuals.

```

?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
    variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix. For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

```

If you wish to install html files for programs in \$spackage, indicate the appropriate directory here. To skip installing html files, answer "none".

```

EOM
case "$html1dir" in
|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
./getfile
prefixvar=html1dir
./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

```

Found
in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.

```

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 ?RCS: that same Artistic License; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: libpth.U,v \$
 ?RCS: Revision 3.0.1.6 1997/02/28 16:08:49 ram
 ?RCS: patch61: new loclibpth variable
 ?RCS:
 ?RCS: Revision 3.0.1.5 1995/01/11 15:31:30 ram
 ?RCS: patch45: call ./mips instead of just mips (WED)
 ?RCS:
 ?RCS: Revision 3.0.1.4 1994/08/29 16:29:15 ram
 ?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
 ?RCS: patch32: fixed information message, making it clearer (ADO)
 ?RCS:
 ?RCS: Revision 3.0.1.3 1994/06/20 07:03:54 ram
 ?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
 ?RCS:
 ?RCS: Revision 3.0.1.2 1994/05/13 15:26:57 ram
 ?RCS: patch27: fixed a typo (libpth -> glibpth)
 ?RCS:
 ?RCS: Revision 3.0.1.1 1994/05/06 15:07:53 ram
 ?RCS: patch23: now asks for library directories to be searched (ADO)
 ?RCS:
 ?RCS: Revision 3.0 1993/08/18 12:09:02 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?X:
 ?X: This unit initializes the path for C library lookup.
 ?X:
 ?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
 ?MAKE: -pick add \$@ %<
 ?S:libpth:
 ?S: This variable holds the general path (space-separated) used to find
 ?S: libraries. It is intended to be used by other units.
 ?S:.
 ?S:glibpth:
 ?S: This variable holds the general path (space-separated) used to
 ?S: find libraries. It may contain directories that do not exist on
 ?S: this platform, libpth is the cleaned-up version.
 ?S:.
 ?S:xlibpth:
 ?S: This variable holds extra path (space-separated) used to find
 ?S: libraries on this platform,
 for example CPU-specific libraries
 ?S: (on multi-CPU platforms) may be listed here.

```

?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries. It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips. Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrlib
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth="/usr/lib/386 /lib/386"
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries. Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips. Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
fi;;
esac
case "$libpth" in
' ') dlist="";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth="

```

```

for xxx in $dlist
do
    if $test -d $xxx; then
    case " $libpth " in
    *" $xxx "*) ;;
    *) libpth="$libpth $xxx";;
    esac
    fi
done
$cat <<'EOM'

```

Some systems have incompatible or broken versions of libraries. Among the directories listed in the question below, please remove any you know not to be holding relevant libraries, and add any that are needed. Say "none" for none.

```

EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
set X $libpth
shift
dflt=${1+"$@"}
;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth='';;
*) libpth="$ans";;
esac

```

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libpth.U
 No license file was found, but licenses were detected in source scan.

```

/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.

```


*

* \$Log: setsid.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:47 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/setsid.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS: patch61: added support for HPUX-10 nm output

?RCS:

?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram

?RCS: patch54: made sure only most recent version of shared lib is picked

?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody

?RCS: patch54: can now grok

linux nm output with lead __IO (ADO)

?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)

?RCS:

?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram

?RCS: patch36: now looks for shared libraries before anything else (ADO)

?RCS: patch36: added new nm output format (ADO)

?RCS:

?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram

?RCS: patch32: added I-type symbols for nm output parsing on Linux

?RCS:

?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram

?RCS: patch30: checks are now presented by succession of if/elif

?RCS: patch30: uniformized checks for shared objects with new so symbol

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram

```

?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
1993/08/27 14:40:03 ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:..
?S:libnames:
?S: The constructed list of library names. Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:..
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:..
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=""
: Figure out where the libc is located
case
"$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
case "$libs" in
*-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
esac
;;

```

```

esac
case "$libs" in
") ;;
*) for thislib in $libs; do
case "$thislib" in
-lc|-lc_s)
: Handle C library specially below.
;;
-l*)
thislib=`echo $thislib | $sed -e 's/^-l//'`
if try=`./loc lib$thislib.$so.*' X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
:
elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
:
elif try=`./loc $lib$thislib$_a X $libpth`; $test -f "$try"; then
:
else
try="
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib"
;;
esac
done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)

```

?X:

?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,

?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest

?X: up-to-date library. The initial filename (before sed munging, saved in hold

?X: space via 'h') is appended via 'G' before sorting, then the leading munged

?X: part is removed after sorting. Nice efficient work

from Tye McQueen.

?X: The initial blurfl is here to prevent the trailing pipe from producing an

?X: empty string, causing Configure to output all its set variables!

?X:

```
set /lib/libc.$so
```

```
for xxx in $libpth; do
```

```
$test -r $1 || set $xxx/libc.$so
```

```
: The messy sed command sorts on library version numbers.
```

```
$test -r $1 || \
```

```
set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
```

```
tr ' ' $trnl | egrep -v \.[A-Za-z]*$' | $sed -e '
```

```
h
```

```
s/[0-9][0-9]*/0000&/g
```

```
s/0*\([0-9][0-9][0-9][0-9]\)^1/g
```

```
G
```

```
s/\n/ '/' \
```

```
$sort | $sed -e 's/^.* //'^
```

```
eval set \$$#
```

```
done
```

```
$test -r $1 || set /usr/ccs/lib/libc.$so
```

```
$test -r $1 || set /lib/libsys_s$_a
```

```
::
```

*)

?X: ensure the test below for the (shared) C library will fail

```
set blurfl
```

```
::
```

```
esac
```

```
if $test -r "$1"; then
```

```
echo "Your (shared) C library seems to be in $1."
```

```
libc="$1"
```

```
elif $test -r /lib/libc && $test -r /lib/clib; then
```

?X:

?X: Apollo has its C library in /lib/clib AND /lib/libc

?X: not to mention its math library in /lib/syslib...

?X:

```
echo
```

```
"Your C library seems to be in both /lib/clib and /lib/libc."
```

```
xxx=apollo
```

```
libc='/lib/clib /lib/libc'
```

```
if $test -r /lib/syslib; then
```

```
echo "(Your math library is in /lib/syslib.)"
```

?X: Put syslib in libc -- not quite right, but won't hurt

```

    libc="$libc /lib/syslib"
fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
    echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
    libc=$incpath/usr/lib/libc$_a;
    echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
    libc=/lib/libc$_a;
    echo "Your C library seems to be in $libc. You're normal."
else
    if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
        :
    elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
        libnames="$libnames "`./loc clib blurfl/dyick $libpth`
    elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
        :
    elif tans=`./loc Slibc$_a blurfl/dyick
    $xlibpth`; $test -r "$tans"; then
        :
    elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
        :
    else
        tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
    fi
    if $test -r "$tans"; then
        echo "Your C library seems to be in $tans, of all places."
        libc=$tans
    else
        libc='blurfl'
    fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
    dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
    dflt="
    echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
    cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM

```

```
$sed 's/^/ /' libpath
cat <<EOM
```

None of these seems to contain your C library. I need to get its name...

```
EOM
fi
fn=f
rp='Where is your C library?'
./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
  $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4
```

```
?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
  case $file in
    *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
    *) $nm $nm_opt $file 2>/dev/null;;
  esac
done >libc.tmp
```

```
$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
```

```

xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
"<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output. (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/___IO//' -e 's/^. *$xxx *[_.]*/p' -e 's/^. *$xxx */p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__ */' -e 's/^([a-zA-Z_0-9]*)\. *xtern.*\1/p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^. *|__ */p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^. *D __ */p' -e 's/^. *D //p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^([a-zA-Z_0-9]*)\. *xtern.*text.*\1/p'";\
eval
$xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^. *|FUNC |GLOB . */p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
-e '/ file/d' -e 's/^\([ ^ ]*\).*\1/p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
elif com="$sed -n -e 's/^. *|FUNC |GLOB . */p' -e 's/^. *|FUNC |WEAK . */p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__/' -e '/|Undef/d' -e '/|Proc/s/ . */p'";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
eval $xrun

```

```

elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e '/Def. Text/s/. * \([^\ ]*\)\$/1/p";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null
2>&1; then
    eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*)=.*\1/p";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*// -e 's/[ \t]*D[ \t]*[0-9]*.*//p";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
    eval $xrun
else
$nm -p $* 2>/dev/null >libc.tmp
$grep fprintf libc.tmp > libc.ptf
if com="$sed -n -e 's/^.* [ADTSIW] *[_\ ]*//p' -e 's/^.* [ADTSIW] //p";\
eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
    nm_opt='-p'
    eval $xrun
else
    echo " "
    echo "$nm didn't seem to work right. Trying $ar instead..." >&4
    com="
if $ar t $libc > libc.tmp && \
    $contains '^fprintf$' libc.tmp >/dev/null 2>&1
then
    for thisname in $libnames $libc; do
        $ar t $thisname >>libc.tmp
    done
    $sed
-e "s/\\$_o$\\/" < libc.tmp > libc.list
    echo "Ok." >&4
    elif test "X$sosname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
    for thisname in $libnames $libc; do
        $ar tv $thisname >>libc.tmp

```


?X: Revision 50 of EMX has bug in ar: it will not extract forwarders

?X: to DLL entries. Use emximp which will extract exactly them.

```
emximp -o tmp.imp $thisname \  
  2>/dev/null && \  
  $sed -e 's/^([_a-zA-Z0-9]*) .*$\1/p' \  
  < tmp.imp >>libc.tmp  
$rm -f tmp.imp  
done  
$sed -e "s/\$_o$//" -e 's/^ +/' < libc.tmp > libc.list  
echo "Ok." >&4  
else  
  echo "$ar didn't seem to work right." >&4  
  echo "Maybe this is a Cray...trying bld instead..." >&4  
  if  
    bld t $libc | \  
    $sed -e 's/.*/\n' -e "s/\$_o:.*/\n" > libc.list &&  
    $test -s libc.list  
  then  
    for thisname in $libnames; do  
      bld t $libnames | \  
      $sed -e 's/.*/\n' -e "s/\$_o:.*/\n" >>libc.list  
      $ar t $thisname >>libc.tmp  
    done  
    echo  
  "Ok." >&4  
  else  
    echo "That didn't work either." >&4  
    echo "No problem, I'll be compiling test programs then..." >&4  
    runnm=false  
  fi  
fi  
fi  
fi  
nm_extract="$com"  
if $test -f /lib/syscalls.exp; then  
  echo " "  
  echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4  
  $sed -n 's/^([^\ ]*)[ \]*syscall[0-9]*[ \]*$\1/p' \  
  /lib/syscalls.exp >>libc.list  
fi  
?X: remember, indentation is wrong on purpose--RAM  
;;  
esac  
$rm -f libnames libpath
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libc.U

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

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:12 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_fcntl.U
```

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=""
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
```

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After perl
has been installed, users may install their own local

?S: man1 pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:siteman1direxp="

?S:siteman1direxp:

?S: This variable is the same as the siteman1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsiteman1dir="

?S:installsiteman1dir:

?S: This variable is really the same as siteman1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installsiteman1dir

?LINT:set siteman1dir

?LINT:set siteman1direxp

: determine where add-on manual pages go

case "\$siteman1dir" in

) dflt=`echo \$man1dir | \$sed "s#^\$prefix#\$siteprefix#"` ;;

*) dflt=\$siteman1dir ;;

esac

case "\$dflt" in

"| ") dflt=none ;;

esac

fn=dn+~

rp='Pathname

where the site-specific manual pages should be installed'

../getfile

prefixvar=siteman1dir

../setprefixvar

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman1dir.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>

?RCS:

?RCS: \$Log: Findhdr.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 15:53:08 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:03:56 ram

?RCS: patch23: cppminus must be after other cppflags, not before

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:54 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a findhdr script which is used to locate the header

?X: files

in \$usrinc or other stranger places using cpp capabilities. The

?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'

?X: and it returns the full path of the include file and a zero status or an

?X: empty string with an error status if the file could not be located.

?X:

?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname

?MAKE: -pick add \$@ %<

?LINT:define fieldn

?S:fieldn:

?S: This variable is used internally by Configure. It contains the position

?S: of the included file name in cpp output. That is to say, when cpp

?S: pre-processes a #include <file> line, it replaces it by a # line which

?S: contains the original position in the input file and the full name of

?S: included file, between "quotes".

?S:.

?V:fieldn

?F:./findhdr !fieldn

?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
 : determine filename position in cpp output

echo " "

echo "Computing filename position in cpp output for #include
 directives..." >&4

echo '#include <stdio.h>' > foo.c

case "\$osname" in

vos)

testaccess=-e

?X: VOS: path component separator is >

```

cppfilter="tr '\\\\>' '/' |"
;;
*)
testaccess=-r
cppfilter="
;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[ ]*#.*stdio\.h' | \
while read cline; do
pos=1
set \($cline
while $test \($# -gt 0; do
if $test $testaccess \`echo \($1 | $tr -d ""\`; then
echo "\$pos"
exit 0
fi
shift
pos=\`expr \($pos + 1\`
done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="\${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

```

?X: To locate a header file, we cannot simply check for \$usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you Next!

: locate header file

```

$cat
>findhdr <<EOF
$startsh
wanted=\($1
name="
for usrincdir in $usrinc; do
if test -f \($usrincdir/\$wanted; then
echo "\$usrincdir/\$wanted"

```

```

exit 0
fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[ ]*#.*\$wanted" | \
while read cline; do
name=\`echo \$cline | $awk "\$awkprg" | $str -d ""\`
case "\$name" in
*[/\\\\]\$wanted) echo "\$name"; exit 1;;
*[\\\\]\$wanted) echo "\$name"; exit 1;;
*) exit 2;;
esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
exit 0
fi
exit 1
EOF
chmod +x findhdr
$unicefix findhdr

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Findhdr.U

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

?RCS: \$Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: contains.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:35 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:contains: Nothing

?MAKE: -pick add \$@ %<

```

?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status. On most sane systems it is simply "grep". On insane systems
?S: it is a grep followed by a cat followed by a test. This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
  greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
  contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
  contains=grep
else
  contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
  echo " " >&4
  echo "AGH! Grep doesn't return a status. Attempting remedial action." >&4
  cat >contains <<'EOSS'
  grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/contains.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: man3dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man3 used instead of man everywhere.

?X: I then added various tests because perl5 has *lots* of man3

?X: pages with long file names. -- ADO

?X:

?MAKE:man3dir

man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread

?MAKE: -pick add \$@ %<

?Y:TOP

?S:man3dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?S:man3direxp:

?S: This variable is the same as the man3dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?S:installman3dir:

?S: This variable is really the same as man3direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man3direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man3ext:

?S: This variable contains the extension that the manual

page should

?S: have: one of 'n', 'l', or '3'. The Makefile must supply the '.'.

?S: See man3dir.

?S:.

: determine where library module manual pages go

set man3dir man3dir none

eval \$prefixit

\$cat <<EOM

\$spackage has manual pages for many of the library modules.

EOM

case "\$nroff" in

nroff)

\$cat <<'EOM'

However, you don't have nroff, so they're probably useless to you.

EOM

```
case "$man3dir" in
") man3dir="none";;
esac;;
esac
```

```
case "$d_flexfnam" in
undef)
```

```
$cat <<'EOM'
```

However, your system can't handle the long file names like File::Basename.3.

EOM

```
case "$man3dir" in
") man3dir="none";;
esac;;
esac
```

echo "If you don't want the manual sources installed, answer 'none'."

?X: We dont use /usr/local/man/man3 because some man programs will

?X: only show the /usr/local/man/man3 contents, and not the system ones,

?X: thus man less will show the perl module less.pm, but not the system

?X: less command. We might also conflict with TCL man pages.

?X: However, something like /opt/perl/man/man3

is fine.

```
case "$man3dir" in
```

```
") case "$prefix" in
```

```
*$package*) dflt=`echo $man1dir |
```

```
$sed -e 's/man1/man3/g' -e 's/man\./man\./3/g'` ;;
```

```
*) dflt="$privlib/man/man3" ;;
```

```
esac
```

```
::
```

```
' ') dflt=none;;
```

```
*) dflt="$man3dir" ;;
```

```
esac
```

```
echo " "
```

```
fn=dn+~
```

```
rp="Where do the $package library man pages (source) go?"
```

```
../getfile
```

```
if test "X$man3direxp" != "X$ansexp"; then
```

```
installman3dir="
```

```
fi
```

```
man3dir="$ans"
```

```
man3direxp="$ansexp"
```

```
case "$man3dir" in
```

```
") man3dir=' '
```

```
installman3dir="";;
```

```
esac
```

```
if $afs; then
$cat <<EOM
```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```
EOM
case "$installman3dir" in
") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#`;;
*) dflt="$installman3dir";;
esac
fn=de~
rp='Where will man pages be installed?'
. ./getfile
installman3dir="$ans"
else
installman3dir="$man3direxp"
fi
```

```
: What suffix
to use on installed man pages
```

```
case "$man3dir" in
'')
man3ext='0'
;;
*)
rp="What suffix should be used for the $package library man pages?"
case "$man3ext" in
") case "$man3dir" in
*3) dflt=3 ;;
*3p) dflt=3p ;;
*3pm) dflt=3pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L3) dflt=L3;;
*) dflt=3;;
esac
;;
*) dflt="$man3ext";;
esac
. ./myread
man3ext="$ans"
```

```
;;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man3dir.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef val_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef:

cppstdin cppminus cppflags rm contains Oldconfig

?MAKE: -pick add \$@ %<

?F:!temp.c

?LINT:define typedef

?V:typedef

?S:typedef:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. A typical use is:

?S: set typedef val_t default [includes]

?S: eval \$typedef

?S: That will return val_t set to default if the typedef was not found,

?S: to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

```

?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"" ) inclist="sys/types.h";;
esac;
eval "varval=\${$var}";
case "$varval" in
"" )
$rm -f temp.c;
for inc in $inclist; do
echo "#include <$inc>" >>temp.c;
done;
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
if $contains $type temp.E >/dev/null 2>&1; then
eval "$var=\${type}";
else
eval "$var=\${def}";
fi;
$rm -f temp.?.;
*) eval
"$var=\${varval}";;
esac'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Typedef.U

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

?RCS: \$Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Inlibc.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 15:55:08 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks for the definition of a given function.

?X:

```

?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
    shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S: set function d_func
?S: eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$2";
tx=yes;
case "$reusval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
set $sym tres -f;
eval $csym;
case "$tres" in
true)
echo "$sym() found." >&4;
case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
*)
echo "$sym() NOT found." >&4;
case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
esac;;
*)
case "$was" in
$define) echo "$sym() found." >&4;;
*) echo "$sym() NOT found." >&4;;
esac;;
esac'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inlibc.U

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

?RCS: \$Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Setvar.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 15:58:28 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:16 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a variable that is intended to be eval'ed in

?X: order to define/undefine a symbol. A consistency check is made

?X: regarding any previous value and a warning is issued if there

?X: is any discrepancy.

?X:

?X:

To use it, say:

?X: val=<value>

?X: set d_variable

?X: eval \$setvar

?X:

?MAKE:Setvar: Whoa

?MAKE: -pick add \$@ %<

?LINT:define setvar

?S:setvar:

?S: This shell variable is used internally by Configure to set a value

?S: to a given symbol that is defined or not. A typical use is:

?S: val=<value computed>

?S: set d_variable

?S: eval \$setvar

?S: That will print a message in case the \$val value is not the same

?S: as the previous value of \$d_variable.

?S:.

?V:setvar:val

?T:var was td tu

: function used to set '\$1' to '\$val'

setvar='var=\$1; eval "was=\\$1"; td=\$define; tu=\$undef;

case "\$val\$was" in

```

$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Setvar.U

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

?RCS: \$Id: html3dir.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: html3dir.U,v \$

?RCS:

?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \

spackage test Getfile Setprefixvar Prefixit Prefixup html1dir

?MAKE: -pick add \$@ %<

?Y:TOP

?D:html3dir="

?S:html3dir:

?S: This variable contains the name of the directory in which html

?S: source pages are to be put. This directory is for pages

?S: that describe libraries or modules. It is intended to

?S: correspond roughly to section 3 of the Unix manuals.

?S:.

?D:html3direxp="

?S:html3direxp:

?S: This variable

is the same as the html3dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installhtml3dir="

?S:installhtml3dir:

?S: This variable is really the same as html3direxp, unless you are

?S: using a different installprefix. For extra portability, you

?S: should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set html3direxp

?LINT:set installhtml3dir

: determine where html pages for libraries and modules go

```
set html3dir html3dir none
eval $prefixit
$cat <<EOM
```

If you wish to install html files for modules associated with \$spackage, indicate the appropriate directory here. To skip installing html files, answer "none".

EOM

: There is no obvious default. If they have specified html1dir, then
: try to key off that, possibly changing ../html1 into ../html3.

case "\$html3dir" in

) html3dir=`echo "\$html1dir" | \$sed 's/1\$/3\$/'` ;;

*) dflt=\$html3dir ;;

esac

fn=dn+~

rp="Directory for the \$spackage module
html pages?"

./getfile

prefixvar=html3dir

./setprefixvar

: Use ' ' for none so value is preserved next time through Configure

\$test X"\$html3dir" = "X" && html3dir=' '

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html3dir.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Myinit.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:47:29 ram

?RCS: patch44: leading comment states this unit comes before option processing

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: If you want to initialize any default values, copy this unit to your

?X: personal U directory and add the assignments to the end. This file

?X: is included after variables are initialized but before any old

?X: config.sh file is read in and before
any Configure switch processing.

?X:

?MAKE:Myinit: Init

?MAKE: -pick add \$@ %<

?LINT: nocomment

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myinit.U

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

?RCS: \$Id: Hasproto.U \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasproto string that is used internally

?X: by Configure to check if this system has a prototype for a

?X: particular function

?X:

?X: To use it, say something like:

?X: set d_getnetent_proto getnetent \$i_netdb netdb.h

?X: eval \$hasproto

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/types.h

?X: \$i_systime sys/time.h

?X: \$i_sysselect sys/select.h

?X: \$i_netdb netdb.h"

?X: set d_getnetent_proto getnetent \$hdrs

?X: eval \$hasproto

?X:

?X: There is also an 'escape' hatch built in. If you have a pair

?X: of args 'literal 'stuff' then 'stuff' gets included literally

?X: into the test program. See Protochk.U for more details.

?X:

?MAKE:Hasproto:

Setvar cppstdin cppflags cppminus contains rm_try test

?MAKE: -pick add \$@ %<

?T:func varname

?F:!try.c

?V:hasproto

: Define hasproto macro for Configure internal use

hasproto='varname=\$1; func=\$2; shift; shift;

while \$test \$# -ge 2; do

case "\$1" in

\$define) echo "#include <\$2>";;

```

literal) echo "$2" ;;
esac ;
    shift 2;
done > try.c;
$ccpstdin $ccpflags $ccpminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
    echo "$func() prototype found.";
    val="$define";
else
    echo "$func() prototype NOT found.";
    val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```

?RCS: You may redistribute only under the terms of the Artistic Licence,

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setregid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_readlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mbtowc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tminsys.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rename.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strxfrm_1.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mbstowcs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syspoll.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sighold.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgget.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_syslog.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systimeb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ffs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_limits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftrncate.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setlnbuf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_cbrt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/newslib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syssock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_stdlib.U
*

```

```

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tzmin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_itimer.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ilp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/locdist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_chown.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_normsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mkdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_truncate.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fchmod.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Obso_sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setsid.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetmk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rusage.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getprior.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syswait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysselect.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strstr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_symlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/registers.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_psignal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dup2.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_link.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_locconv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_stdlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_internet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_regcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_siglist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtol.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_niin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memalign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_trad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prefshell.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_SHM_MAC.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_NeWS.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wait4.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_unistd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rootid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_table.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_uwait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strxfrm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nlist_pfx.U

```

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysndir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgrcv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setprior.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysun.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add \$@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline. Typical values are
?S: '\012' and '\n'. This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
use \$tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command. I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it. --AD 6/14/98
if test -n "\$DJGPP"; then
trnl='\012'
fi
if test X"\$trnl" = X; then
case "`echo foo | tr '\n' x 2>/dev/null`" in
foox) trnl='\n' ;;
esac
fi
if test X"\$trnl" = X; then
case "`echo foo | tr '\012' x 2>/dev/null`" in
foox) trnl='\012' ;;
esac
fi
if test X"\$trnl" = X; then


```

case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
fooxy) trnl="\n\r" ;;
esac
fi
if test X"$trnl" = X; then
cat <<EOM >&2

```

\$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

```

EOM
exit 1
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/trnl.U

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

?RCS: \$Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Rcs.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:15 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This is a unit that helps people who write SH scripts and keep them under

?X: RCS, but don't think to protect the \$Log and other \$Id keywords from

?X: variable substitution (or people like me who do not like to).

?X:

?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig

?MAKE: -pick weed \$@ %<

?LINT:describe Author

Date Header Id Locker Log RCSfile Revision Source State

: preserve RCS keywords in files with variable substitution, grrr

?Author:Author='\$Author'

?Date:Date='\$Date'

?Header:Header='\$Header'

?Id:Id='\$Id'

?\$Locker'

?Log:Log='\$Log'

?RCSfile:RCSfile='\$RCSfile'

?Revision:Revision='\$Revision'

?Source:Source='\$Source'

?State:State='\$State'

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Rcs.U

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

?RCS: \$Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: lib.U,v \$

?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram

?RCS: patch32: now uses installation prefix to set the default

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?LINT:

empty

?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp

?X:?MAKE: -pick add \$@ %<

?X:?Y:TOP

?X:?S:lib:

?X:?S: This variable holds the name of the directory in which the user wants

?X:?S: to put public library files for the package in question. It is most

?X:?S: often a local directory such as /usr/local/lib. Programs using this

?X:?S: variable must be prepared to deal with filename expansion.

?X:?S:.

?X:?S:libexp:

?X:?S: This variable is the same as the lib variable, but is filename expanded

?X:?S: at configuration time, for convenient use in your makefiles.

?X:?S:.

?X:: determine where public libraries go

?X:set lib lib

```
?X:eval $prefixit
?X:case "$lib" in
?X:~)
?X: dflt=`./loc . ." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*) dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$sansexp"
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/lib.U
```

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

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 14:56:35 ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2 1995/01/30 14:25:08 ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/31 09:32:20 ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
?X: of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
```

```
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."
```

```
?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

```
Found in path(s):
* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1 1999/07/08 20:52:19 doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5. Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir. This unit is basically dist's mansrc.U with
?X: man3 used instead
?X: of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=
```

```

?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:..
?D:man3direxp="
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:..
?D:installman3dir="
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
?S: points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:..
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'. The Makefile must supply the '.'.
?S: See man3dir.
?S:..
?T:prog tdfmt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
$cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
case "$man3dir" in
") man3dir="none";;
esac;;
esac

case "$d_flexfnam" in
undef)
$cat <<'EOM'

```

However, your system can't handle the long file names like File::Basename.3.

EOM

```
case "$man3dir" in
") man3dir="none";;
esac;;
esac
```

echo "If you don't want the manual sources installed, answer 'none'."

?X: In 5.005_57 and earlier, I had the following notes:

?X:

We do not use /usr/local/man/man3 because some man programs will

?X: only show the /usr/local/man/man3 contents, and not the system ones,

?X: thus man less will show the perl module less.pm, but not the system

?X: less command. We might also conflict with Tcl man pages.

?X: However, something like /opt/perl/man/man3 is fine.

?X:

?X: However, opinion seems to be shifting such that 'man POSIX' ought

?X: to just work. -- Andy Dougherty July 8, 1999

?X:

?X: remove any trailing -3.0 or other version indication from \$package

prog=`echo \$package | \$sed 's/-*[0-9.]*\$/^`

case "\$man3dir" in

") dflt=`echo "\$man1dir" | \$sed -e 's/man1/man3/g' -e 's/man\./1/man\./3/g`

if \$test -d "\$privlib/man/man3"; then

cat <<EOM >&4

WARNING: Previous versions of perl installed man3 pages into

\$privlib/man/man3. This version will suggest a

new default of \$dflt.

EOM

tdflt=\$dflt

dflt='n'

rp='Do you wish to preserve the old behavior?(y/n)'

. ./myread

case "\$ans" in

y*) dflt="\$privlib/man/man3"

;;

*) dflt=\$tdflt ;;

esac

fi

;;

*) dflt="\$man3dir" ;;

esac

case "\$dflt" in

' ') dflt=none ;;

esac

echo " "

fn=dn+~

```
rp="Where do the $package library man pages (source) go?"
```

```
./getfile
```

```
prefixvar=man3dir
```

```
./setprefixvar
```

```
case "$man3dir" in
```

```
") man3dir=' '
```

```
installman3dir="";;
```

```
esac
```

```
: What suffix to use on installed man pages
```

```
case "$man3dir" in
```

```
' ')
```

```
man3ext='0'
```

```
;;
```

```
*)
```

```
rp="What suffix should be used for the $package library man pages?"
```

```
case "$man3ext" in
```

```
") case "$man3dir" in
```

```
*3) dflt=3 ;;
```

```
*3p) dflt=3p ;;
```

```
*3pm) dflt=3pm ;;
```

```
*l) dflt=l;;
```

```
*n) dflt=n;;
```

```
*o) dflt=o;;
```

```
*p) dflt=p;;
```

```
*C) dflt=C;;
```

```
*L) dflt=L;;
```

```
*L3) dflt=L3;;
```

```
*) dflt=3;;
```

```
esac
```

```
;;
```

```
*) dflt="$man3ext";;
```

```
esac
```

```
./myread
```

```
man3ext="$ans"
```

```
;;
```

```
esac
```

```
Found in path(s):
```

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man3dir.U
```

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

```
/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
```

```
*
```

```
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
```

```
* You may redistribute only under the terms of the Artistic Licence,
```

- * as specified in the README file that comes with the distribution.
- * You may reuse parts of this distribution only within the terms of
- * that same Artistic Licence; a copy of which may be found at the root
- * of the source tree for dist 4.0.
- *
- * \$Log: Jmake.rules,v \$
- * Revision 3.0.1.7 2004/08/22 08:28:58 ram
- * patch71: random cleanup
- *
- * Revision 3.0.1.6 1997/02/28 14:56:01 ram
- * patch61: now handles USRINC for dependencies
- * patch61: smarter about dependencies computation
- *
- * Revision 3.0.1.5 1995/09/25 09:07:19 ram
- * patch59: smarter sed command to strip /usr/include dependencies
- *
- * Revision 3.0.1.4 1995/07/25 13:33:59 ram
- * patch56: install of script man pages can now cope with missing files
- * patch56: the clobber
- target now removes the .config directory as well
- *
- * Revision 3.0.1.3 1995/03/21 08:35:28 ram
- * patch52: suppressed extra argument to NormalProgramTarget call
- *
- * Revision 3.0.1.2 1995/01/11 14:49:55 ram
- * patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
- * patch45: directory installation is now made via INSTALLDIR (Configure)
- *
- * Revision 3.0.1.1 1994/10/29 15:46:30 ram
- * patch36: added RemoteDependency rule
- *
- * Revision 3.0 1993/08/18 12:04:14 ram
- * Baseline for dist 3.0 netwide release.
- *
- */

Found in path(s):

- * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.rules

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

?RCS: \$Id: sitebin.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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```

?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
  Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin="
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
  in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitebinexp="
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin="
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
../getfile
prefixvar=sitebin
../setprefixvar

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitebin.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000, Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:versiononly: cat Myread Setvar Devel

?MAKE: -pick add \$@ %<

?LINT:set versiononly

?Y:TOP

?S:versiononly:

?S: If set, this symbol indicates that only the version-specific

?S: components of a perl installation should be installed.

?S: This may be useful for making a test installation of a new

?S: version without disturbing the existing installation.

?S: Setting versiononly is equivalent to setting installperl's -v option.

?S: In particular, the non-versioned scripts and programs such as

?S: a2p, c2ph, h2xs, pod2*, and perldoc

are not installed

?S: (see INSTALL for a more complete list). Nor are the man

?S: pages installed.

?S: Usually, this is undef.

?S:.

?LINT:extern inc_version_list

?LINT:change inc_version_list

?LINT:extern inc_version_list_init

?LINT:change inc_version_list_init

?LINT:extern version

: determine whether to use a version number suffix for installed binaries

echo " "

\$cat <<EOM

Do you want to use a version number suffix for installed binaries? This will install 'perl\$version' instead of 'perl', and likewise for other binaries like 'perldoc' and 'cpan'. This allows many versions of perl to be installed side-by-side. Unless you are a developer, you probably do **not** want to do this.

EOM

case "\$versiononly" in

"\$define"|[Yy]*|true) dflt='y' ;;

*) dflt='n';

esac

rp="Do you want to use a version number suffix for installed binaries?"

./myread

case "\$ans" in

[yY]*) val="\$define";;

*) val="\$undef" ;;

esac

set versiononly

eval \$setvar

case "\$versiononly" in

"\$define") inc_version_list="

inc_version_list_init=0

;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/versiononly.U

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

?RCS: \$Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: prototype.U,v \$

?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram

?RCS: patch23: ensure cc flags used when looking for prototype support

?RCS:

?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram

?RCS: patch16: prototype handling macros now appear only when needed

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram

?RCS: patch6: defines were referring to non-existent VOID symbol

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:36 ram

?RCS: Baseline for dist

3.0 netwide release.

?RCS:

?MAKE:prototype: Nothing

?S:prototype:

?S: This variable holds the eventual value of CAN_PROTOTYPE, which

?S: indicates the C compiler can handle function prototypes.

?S:.

: stub, never used
prototype=nothing

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/prototype.U

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

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/dup2.C

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

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 16:22:12 ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:37:01 ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
```

```

?RCS: Revision 3.0.1.2 1994/08/29 16:33:00 ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:12:58 ram
?RCS: patch10: made #-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system. It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if ` $sh -c '#' >/dev/null 2>&1`; then
?X: echo
"Your $sh handles # comments correctly."
shsharp=true
spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
xcat=/bin/cat
test -f $xcat$_exe || xcat=/usr/bin/cat
if test ! -f $xcat$_exe; then
for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
if test -f $p/cat$_exe; then
xcat=$p/cat
break
fi

```

```

done
if test ! -f $xcat$_exe; then
    echo "Can't find cat anywhere!"
    exit 1
fi
fi
echo "#!$xcat" >sharp
$unicefix sharp
chmod +x sharp
./sharp > today 2>/dev/null
if test -s today; then
?X: echo "It does."
    sharpbang='#!'
else
    echo "#! $xcat" > sharp
    $unicefix sharp
    chmod +x sharp
    ./sharp > today 2>/dev/null
    if test -s today; then
?X: echo "It does."
        sharpbang='#! '
    else
?X: echo "Okay, let's see if #! works on this system..."
?X: echo "It's just a comment."
        sharpbang=': use '
    fi
fi
else
    echo " "
    echo "Your $sh doesn't grok # comments--I will strip them later on."
    shsharp=false
?X: The
    spitshell script will be perused, so leave it out the UU directory
    cd ..
    echo "exec grep -v '^[ ]*#' >spitshell
    chmod +x spitshell
    $unicefix spitshell
    spitshell=`pwd`/spitshell
    cd UU
    echo "I presume that if # doesn't work, #! won't work either!"
    sharpbang=': use '
fi
rm -f sharp today

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/spitshell.U

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

```

?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:09:40 ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE. Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#' #
If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:..
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo. Metaconfig
?X: will think that's a command like @if or @end.
$sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X @echo 'maketemp="\$(MAKE)'"
EOF

```

```
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
case "$make -f testmake.mak 2>/dev/null" in
*maketemp=*) make_set_make='#' ;;
*) make_set_make="MAKE=$make" ;;
esac
$rm
-f testmake.mak
;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:04 ram
?RCS: Baseline for
dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read. I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
```



```
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user$" ../.config/instruct >/dev/null 2>&1; then
firsttime=false
echo " "
rp='Would you like to see the instructions?'
dflt=n
. ./myread
case "$ans" in
[yY]*) ;;
*) needman=false;;
esac
fi
if $needman; then
cat <<EOH
```

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

```
EOH
rp="
dflt='Type carriage return to continue'
. ./myread
cat <<'EOH'
```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer will remain unchanged and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

EOH

```
. ./myread
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

```
?X: In case they played with the prompter...
dflt='Type carriage return to continue'
. ./myread
case "$firsttime" in
true) echo $user >>../.config/instruct;;
esac
fi
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: kernel.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:54 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:kernel: Getfile test

?MAKE: -pick add \$@ %<

?S:kernel:

?S: This variable becomes the (fully rooted) path name of the kernel.

?S:.

: find the name of the kernel.

echo " "

case "\$kernel" in

")

if \$test -r /unix; then

 dflt=/unix

elif \$test -r /vmunix; then

 dflt=/vmunix

elif \$test -r /xenix; then

 dflt=/xenix

elif \$test -r /mach; then

 dflt=/mach

elif

\$test -r /dgux; then

 dflt=/dgux

elif \$test -r /hp-ux; then

 dflt=/hp-ux

elif \$test -r /syst; then

 dflt=/syst

elif \$test -r /arix; then

 dflt=/arix

elif \$test -r /irix; then

 dflt=/arix

else

 dflt='unknown'

set X /*x

shift

case \$# in

1)

 if \$test -r "\$1"; then

 dflt="\$1"

```

fi
;;
esac
fi
;;
*)
dflt="$kernel"
;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/kernel.U
 No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
  Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.

```

```

?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file. This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
if $test -f /usr/etc/nibindd; then
    echo
    " "

    echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
    echo " "
    rp='Do you get the passwd file via NetInfo?'
    dflt=y
    case "$passcat" in
        nidump*) ;;
        *) ;;
        *) dflt=n;;
    esac
    . ./myread
    case "$ans" in
        y*) passcat='nidump passwd .'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='nidump group .'
@end
    ;;
    *) echo "You told me, so don't blame me."
    case "$passcat" in
        nidump*) passcat="
@if groupcat
    groupcat="";;
@end
    esac
@if groupcat
    echo "(Assuming /etc/group is handled the same way.)"
@end
    ;;

```

```

esac
@end
@if hostcat
echo " "
rp='Do you get the hosts file via NetInfo?'
dflt=y
case "$hostcat" in
nidump*) ;;
") ;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
y*) hostcat='nidump hosts .';;
*) case "$hostcat" in
nidump*) hostcat="";;
esac
;;
esac
@end
fi
@if passcat || groupcat
case "$passcat" in
nidump*) ;;
*)
case "$passcat" in
*y*cat*) dflt=y;;
")
if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the passwd file via yellow pages?'
. ./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
echo "(Assuming /etc/group is also distributed.)"
groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'
@if groupcat
echo "(Assuming /etc/group is also local.)"

```

```

    groupcat='cat /etc/group'
@end
;;
esac
;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case "$hostcat" in
*ypcat*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
else
    dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
./myread
case "$ans" in
y*) hostcat='ypcat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=:
$test -f /etc/hosts && hostcat='cat
/etc/hosts';;
esac
case "$groupcat" in
") groupcat=:
$test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=:
$test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nis.U

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

?RCS: \$Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extractall.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram

?RCS: patch61: created

?RCS:

?X:

?X: If extraction has been requested, load the configuration file, perform

?X: the extraction and exit.

?X:

?X: This unit was originally a part of Options.U. It had to be removed from

?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract

?X: The Begin.U unit now requires us before beginning to do anything

?X: interesting, to ensure

proper semantics. -- RAM, 15/03/96

?X:

?MAKE:Extractall: Extract Options

?MAKE: -pick wipe \$@ %<

: extract files and exit if asked to do so

case "\$extractsh" in

true)

?X: Undo the forced silent=true when -S was supplied, by probing realsilent

?X: which was set iff -s was also given. See Options.U for details.

case "\$realsilent" in

true) ;;

*) exec 1>&4;;

esac

case "\$config_sh" in

") config_sh='config.sh';;

esac

echo " "

echo "Fetching answers from \$config_sh..."

cd ..

. \$config_sh

?X: extract has to be run from the top directory, not within UU.

. UU/optdef.sh

echo " "

?X: extract has to be run from the top directory, not within UU.


```
. UU/extract
rm -rf UU
echo "Extraction done."
exit 0
;;
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
/g"; do
: Check if this perl is recent and can load a simple module
if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
perl5=$tdir/perl
break;
elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
perl5=$tdir/perl5
break;
fi
```

```

done
;;
*) perl5="$perl5"
;;
esac
case "$perl5" in
") echo "None found. That's ok.";;
*) echo "Using $perl5." ;;
esac

```

Found in path(s):

```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3 1994/10/29 16:27:21 ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2 1993/11/10 17:37:02 ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:11:10 ram
?RCS: patch10: added package, suitable for starting sentences
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:28 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.

```

```
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^(.)*\1/'`
last=`echo $package | sed -e 's/^(.*)\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
$first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 14:58:36 ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
```

```
test -d ../config || mkdir ../config
cat >../config/README <<EOF
This directory created by Configure to save
information that should
persist across sessions for $package.
```

You may safely delete it if you wish.
EOF

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Configdir.U

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

```
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
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# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:05 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:37 ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedepend.SH

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

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees ""\${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOESC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
eval "install${prefixvar}=\`echo \${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"`\`"
else
eval "install${prefixvar}=\"\${prefixvar}exp\""
fi
EOESC
chmod +x installprefix
$eunicefix installprefix
```

```
: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
```

```
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOESC' >>setprefixvar
eval "${prefixvar}=\"\${ans}\""
eval "${prefixvar}exp=\"\${ansexp}\""
. ./installprefix
EOESC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/Setprefixvar.U

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

?RCS: \$Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1996, 1999 Andy Dougherty

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.2 1999/07/08 20:57:21 doughera

?RCS: Used installprefix.

?RCS:

?RCS: Revision 3.1 1999/07/08 20:52:19 doughera

?RCS: Updated for perl5.005_5x

?RCS:

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and

man3dir. This unit is basically dist's mansrc.U with

?X: man1 used instead of man everywhere.

?X:

?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \

spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \

prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?D:man1dir=

?S:man1dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?D:man1direxp=

?S:man1direxp:

?S: This variable is the same as the man1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installman1dir=

?S:installman1dir:

?S: This variable is really the same as man1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location.

For extra

?S: portability, you should only use this variable within your makefiles.

```

?S:.
?S:man1text:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$package has manual pages available in source form.
EOM
case "$nroff" in
nroff)
echo "However, you don't have nroff, so they're probably useless to you."
case "$man1dir" in
") man1dir="none";;
esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
;;
")
lookpath="$prefixexp/share/man/man1"
lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath $prefixexp/man/p_man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1"
lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
expect man1dir to be under prefix,
?X: so we now always put it there. Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
case "$sysman" in
*/?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
*) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
esac
set dflt
eval $prefixup
;;
*) dflt="$man1dir"
;;
esac

```

```

echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
    installman1dir="
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
") man1dir=' '
    installman1dir=";;
esac

```

: What suffix to use on installed man pages

```

case "$man1dir" in
')
    man1ext='0'
;;
*)
    rp="What suffix should be used for the main $spackage man pages?"
    case "$man1ext" in
") case "$man1dir" in
        *1) dflt=1 ;;
        *1p) dflt=1p ;;
        *1pm) dflt=1pm ;;
        *l) dflt=l;;
        *n) dflt=n;;
        *o) dflt=o;;
        *p) dflt=p;;
        *C) dflt=C;;
        *L) dflt=L;;
        *L1)
            dflt=L1;;
        *) dflt=1;;
    esac
;;
*) dflt="$man1ext";;
esac
. ./myread
man1ext="$ans"
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man1dir.U

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

?RCS: \$Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughtera Exp \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: installstyle.U,v \$

?RCS: Revision 1.2 1999/07/13 14:56:06 doughtera

?RCS: Fix dependencies. Add more comments.

?RCS:

?RCS: Revision 1.1 1999/07/12 17:30:41 doughtera

?RCS: Initial revision

?RCS:

?RCS:

?MAKE:installstyle: prefix Myread

?MAKE: -pick add \$@ %<

?X: Myread dependence is for dflt.

?S:installstyle:

?S: This variable describes the "style" of the perl installation.

?S: This is intended to be useful for tools that need to

?S: manipulate entire perl

distributions. Perl itself doesn't use

?S: this to find its libraries -- the library directories are

?S: stored directly in Config.pm. Currently, there are only two

?S: styles: "lib" and "lib/perl5". The default library locations

?S: (e.g. privlib, sitelib) are either \$prefix/lib or

?S: \$prefix/lib/perl5. The former is useful if \$prefix is a

?S: directory dedicated to perl (e.g. /opt/perl), while the latter

?S: is useful if \$prefix is shared by many packages, e.g. if

?S: \$prefix=/usr/local.

?S:

?S: Unfortunately, while this "style" variable is used to set

?S: defaults for all three directory hierarchies (core, vendor, and

?S: site), there is no guarantee that the same style is actually

?S: appropriate for all those directories. For example, \$prefix

?S: might be /opt/perl, but \$siteprefix might be /usr/local.

?S: (Perhaps, in retrospect, the "lib" style should never have been

?S: supported, but it did seem like a nice idea at the time.)

?S:

?S: The situation is even less clear for

tools such as MakeMaker

?S: that can be used to install additional modules into

?S: non-standard places. For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time \$installstyle setting will be
?S: relevant for that PREFIX.

?S:

?S: This may later be extended to include other information, so

?S: be careful with pattern-matching on the results.

?S:

?S: For compatibility with perl5.005 and earlier, the default

?S: setting is based on whether or not \$prefix contains the string

?S: "perl".

?S:.

: determine installation style

: For now, try to deduce it from prefix unless it is already set.

: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.

case "\$installstyle" in

") case "\$prefix" in

perl) dflt='lib';;

*) dflt='lib/perl5' ;;

esac

;;

*) dflt="\$installstyle" ;;

esac

: Probably not worth prompting for this since we prompt

for all

: the directories individually, and the prompt would be too long and

: confusing anyway.

installstyle=\$dflt

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installstyle.U

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

?RCS: \$Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Init.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram

?RCS: patch44: removed Options from MAKE to prevent Init overrides

?RCS: patch44: option processing now done after Myinit thanks to new Begin.U

?RCS: patch44: moved "Beginning of configuration questions" to Begin.U

?RCS: patch44: moved signal trapping instruction to Begin.U as well

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This file

initializes certain default variables used by Configure. They

?X: may be overridden or added to by definitions in Myinit.U.

?X:

?MAKE:Init eunicefix: Null

?MAKE: -pick add \$@ %<

?MAKE: -pick weed \$@ ./Init

?S:eunicefix:

?S: When running under Eunice this variable contains a command which will

?S: convert a shell script to the proper form of text file for it to be

?S: executable by the shell. On other systems it is a no-op.

?S:.

?V:define undef smallmach:rmlist

?X:

?X: Throughout the units, one may make use of \$define and \$undef to reference

?X: a defined symbol or an undefined one. There is no need to add them in

?X: the dependency line since this unit makes them visible via ?V:, and

?X: everyone inherits from those symbols since by convention Init.U is the

?X: root dependency.

?X:

?LINT:extern DJGPP

?LINT:extern _exe

?LINT:change _exe

?LINT:extern is_os2

: Detect odd OSs

define='define'

undef='undef'

smallmach='pdp11 i8086 z8000 i80286 iAPX286'

rmlist="

: We must find out about

Eunice early

eunicefix=':'

if test -f /etc/unixtovms; then

eunicefix=/etc/unixtovms

fi

if test -f /etc/unixtovms.exe; then

eunicefix=/etc/unixtovms.exe

fi

: Set executable suffix now -- needed before hints available

```

if test -f "/libs/version.library"; then
: Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
  _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
  _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
  _exe=""
elif test -d c:/ -o -n "$is_os2" ; then
: OS/2 or cygwin
  _exe=".exe"
fi

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Init.U

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

?RCS: \$Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Options.U,v \$

?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram

?RCS: patch61: optdef.sh now starts with a "startsh"

?RCS: patch61: moved some code from Head.U

?RCS:

?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram

?RCS: patch59: protected option parsing code against 'echo -*' option failure

?RCS:

?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram

?RCS: patch54: added -K option for experts

?RCS:

?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram

?RCS:

patch49: this unit now exports file optdef.sh, not a variable

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram

?RCS: patch45: new -O option allowing -D and -U to override config.sh settings

?RCS: patch45: file optdef.sh is no longer removed after sourcing

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram

?RCS: patch36: ensure option definition file is removed before appending

?RCS: patch36: protect variable definitions with spaces in them

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram

?RCS: patch30: now uses new me symbol to tag error messages

?RCS: patch30: new -D and -U options to define/undef symbols (JHI)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:14 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Command line parsing. It is really important that the variables used here

?X: be not listed in the MAKE line, or they will be saved in config.sh and

?X: loading this file to fetch default answers would clobber the values set

?X: herein.

?X:

?MAKE:Options:

startsh

?MAKE: -pick wipe \$@ %<

?V:reuseval alldone error realsilent silent extractsh fastread \

knowitall: config_sh

?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu

?T:args_exp args_sep arg_exp ccflags

?F:!Configure

?F:/optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt

: Save command line options in file UU/cmdline.opt for later use in

: generating config.sh.

?X: This temporary file will be read by Oldsym.U. I used a temporary

?X: file to preserve all sorts of potential command line quotes and

?X: also because we don't know in advance how many variables we'll

?X: need, so I can't actually declare them on the MAKE line.

?X: The config_args variable won't be quite correct if Configure is

?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"

?X: since the quotes are gone by the time we see them. You'd have to

?X: reconstruct the command line from the config_arg? lines, but since

?X: I don't imagine anyone actually having to do that, I'm not going

?X:

to worry too much.

cat > cmdline.opt <<EOSH

: Configure command line arguments.

config_arg0='\$0'

config_args='\$*'

config_argc=\$#

EOSH

argn=1

```

args_exp=""
args_sep=""
for arg in "$@"; do
    cat >>cmdline.opt <<EOSH
    config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by "'"
    cat <<EOC | sed -e "s/'/'\"'/g" > cmdl.opt
$arg
EOC
    arg_exp=`cat cmdl.opt`
    args_exp="$args_exp$args_sep'$arg_exp'"
    argn=`expr $argn + 1`
    args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

```

```

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
    optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

```

```

    len = length(optstr);
    for (i = 1; i <= len; i++) {
        c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
        if (i < len) a = substr(optstr, i + 1, 1); else a = "";
        if (a == ":") {
            arg[c] = 1;
            i++;
        }
        opt[c]
    = 1;
    }
}
{
    expect = 0;
    str = $0;
    if (substr(str, 1, 1) != "-") {
        printf("%s\n", str);
        next;
    }
    len = length($0);
    for (i = 2; i <= len; i++) {
        c = substr(str, i, 1);
        if (!opt[c]) {

```

```

printf("-%s\n", substr(str, i));
next;
}
printf("-%s\n", c);
if (arg[c]) {
    if (i < len)
        printf("%s\n", substr(str, i + 1));
    else
        expect = 1;
    next;
}
}
}
END {
    if (expect)
        print "?";
}
EOF

```

: process the command line options

?X: Use "\$@" to keep arguments with spaces in them from being split apart.

?X: For the same reason, awk will output quoted arguments and the final eval

?X: removes them and sets a proper \$* array. An 'X' is prepended to each

?X: argument before being fed to echo to guard against 'echo -x', where -x

?X: would be understood as an echo option! It is removed before feeding awk.

set X `for arg in "\$@"; do echo "X\$arg"; done |

sed -e s/X// | awk -f options.awk`

eval "set \$*"

shift

rm -f options.awk

: set up default values

fastread="

reuseval=false

config_sh="

alldone="

error="

silent="

extractsh="

knowitall="

rm

-f optdef.sh posthint.sh

cat >optdef.sh <<EOS

\$startsh

EOS

?X:

?X: Given that we now have the possibility to execute Configure remotely

?X: thanks to the new src.U support, we have to face the possibility
 ?X: of having to ask where the source lie, which means we need the Myread.U
 ?X: stuff and possibly other things that might echo something on the
 ?X: screen...
 ?X:
 ?X: That's not pretty, and might be confusing in 99% of the time. So...
 ?X: We introduce a new realsilent variable which is set when -s is given,
 ?X: and we force silent=true if -S is supplied. The Extractall.U unit
 ?X: will then undo the >&4 redirection based on the value of the
 ?X: realsilent variable... -- RAM, 18/93/96
 ?X:

```
: option parsing
while test $# -gt 0; do
case "$1" in
-d) shift; fastread=yes;;
-e) shift; alldone=cont;;
-f)
  shift
  cd ..
  if test -r "$1"; then
    config_sh="$1"
  else
    echo "$me: cannot read config file $1."
  >&2
  error=true
  fi
  cd UU
  shift;;
--help\
-h) shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
  shift
  case "$1" in
  *)
    echo "$me: use '-U symbol=', not '-D symbol='." >&2
    echo "$me: ignoring -D $1" >&2
    ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\"/g" -e "s/=(.*)/=\"1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
```



```

shift
;;
-U)
shift
case "$1" in
*) echo "$1" >> optdef.sh;;
*=*)
echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
echo "$me: ignoring -U $1" >&2
;;
*) echo "$1='undef'" >> optdef.sh;;
esac
shift
;;
-A)
shift
xxx=""
yyy="$1"
zzz=""
uuu=undef
case "$yyy" in
*=*) zzz=`echo "$yyy"|sed 's!=.*!!'^
    case "$zzz" in
*:*) zzz="" ;;
*) xxx=append

    zzz=" "`echo "$yyy"|sed 's!^[^=]*=!!'^
    yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
    esac
    ;;
    esac
    case "$xxx" in
    ") case "$yyy" in
*:*) xxx=`echo "$yyy"|sed 's!:..*!!'^
        yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^
        zzz=`echo "$yyy"|sed 's!^[^=]*=!!'^
        yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
        *) xxx=`echo "$yyy"|sed 's!:..*!!'^
            yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^ ;;
            esac
            ;;
            esac
            case "$xxx" in
            append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
clear)
echo "$yyy=" >> posthint.sh ;;
define)

```

```

        case "$zzz" in
        ") zzz=define ;;
    esac
    echo "$yyy='$zzz'" >> posthint.sh ;;
    eval)
    echo "eval \"$yyy=$zzz\" >> posthint.sh ;;
    prepend)
    echo "$yyy=\"\$zzz\${ $yyy}\" >> posthint.sh ;;
    undef)

        case "$zzz" in
        ") zzz="$uuu" ;;
    esac
    echo "$yyy=$zzz" >> posthint.sh ;;
        *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
        [-U symbol] [-U symbol=] [-A command:symbol...]
-d : use defaults for all answers.
-e : go on without questioning past the production of config.sh.
-f : specify an alternate default configuration file.
-h : print this help message and exit (with an error status).
-r : reuse C symbols value if possible (skips costly nm extraction).
-s : silent mode, only echoes questions and essential information.
-D : define symbol to have some value:
    -D symbol          symbol gets the
value 'define'
    -D symbol='some value'  symbol is set to 'some value'
common used examples (see INSTALL for more info):
    -Duse64bitint          use 64bit integers
    -Duse64bitall          use 64bit integers and pointers
    -Dusethreads           use thread support
    -Dinc_version_list=none do not include older perl trees in @INC
    -DEBUGGING=none        DEBUGGING options
    -Dcc=gcc               choose your compiler

```

-Dprefix=/opt/perl5 choose your destination

-E : stop at the end of questions, after having produced config.sh.

-K : do not use unless you know what you are doing.

-O : ignored for backward compatibility

-S : perform variable substitutions on all .SH files (can mix with -f)

-U : undefine symbol:

 -U symbol symbol gets the value 'undef'

 -U symbol= symbol gets completely empty

 e.g.: -Uversiononly

-A : manipulate symbol after the platform specific hints
have been applied:

 -A append:symbol=value append value to symbol

 -A symbol=value like append:, but with a separating space

 -A define:symbol=value define symbol to have value

 -A clear:symbol define symbol to be "

 -A define:symbol define symbol to be 'define'

 -A eval:symbol=value define symbol to be eval of value

 -A prepend:symbol=value prepend value to symbol

 -A undef:symbol define symbol to be 'undef'

 -A undef:symbol= define symbol to be "

 e.g.: -A prepend:libswanted='cl pthread '

 -A ccflags=-DSOME_MACRO

-V : print version number and exit (with a zero status).

EOM

exit 1

::

esac

?X:

?X: Unless they specified either -S or both -d and -e/E, make sure we're

?X: running interactively, i.e. attached to a terminal. Moved from Head.U to

?X: be able to handle batch configurations...

?X:

?X: We have to hardwire the Configure name and

cannot use \$me, since if they

?X: said 'sh <Configure', then \$me is 'sh'...

?X:

: Sanity checks

case "\$fastread\$alldone" in

yescont|yesexit) ;;

*)

case "\$extractsh" in

true) ;;

*)

if test ! -t 0; then

echo "Say 'sh Configure', not 'sh <Configure'"

exit 1

fi

```
;;
esac
;;
esac
```

?X: In silent mode, the standard output is closed. Questions are asked by
 ?X: outputting on file descriptor #4, which is the original stdout descriptor.
 ?X: This filters out all the "junk", since all the needed information is written
 ?X: on #4. Note that ksh will not let us redirect output if the file descriptor
 ?X: has not be defined yet, unlike sh, hence the following line...--RAM.
 exec 4>&1
 case "\$silent" in
 true) exec 1>/dev/null;;
 esac

: run the defines and the undefines, if any, but leave the file out there...
 touch optdef.sh
 ?X: -q is POSIX
 ?X: It does not work in SysV (solaris) or old BSD greps.
 grep '\ ' optdef.sh >/dev/null 2>&1
 if test \$? = 0; then
 echo "Configure does not support \
 in -D arguments"
 exit 1
 fi
 ./optdef.sh
 : create the posthint manipulation script and leave the file out there...
 ?X: this file will be perused by Oldconfig.U
 touch posthint.sh

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Options.U
 No license file was found, but licenses were detected in source scan.

You may redistribute only under the terms of the Artistic Licence,

Found in path(s):
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/fixcpp
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/makegloss
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.mk
 * /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/bindex
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Chk_whoami.U,v \$

?RCS: Revision 3.0 1993/08/18 12:04:46 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit makes sure we don't try to include whoami.h if uname() exists.

?X:

?MAKE:Chk_whoami: d_uname i_whoami

?MAKE: -pick add \$@ %<

?LINT:change i_whoami

: weed out incompatibilities

case "\$d_uname" in

"\$define") i_whoami="\$sundef" ;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_whoami.U

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

?RCS: \$Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: MailList.U,v \$

?RCS: Revision 3.0.1.1 1994/01/24 14:01:49 ram

?RCS: patch16: created

?RCS:

?RCS:

?X:

?X: This unit offers the user the option of subscribing to the mailing

?X: list. To force inclusion of this unit, you must add it's name to the

?X: dependancies on the MAKE line in your private copy of End.U.

?X: The address of the mailing list server must be set via a "list_request=..."

?X:

entry in the .package file. This is usually done by running packinit and

?X: answering the proper questions.

?X:

?MAKE:MailList: cat mailer package Myread cf_name cf_email

?MAKE: -pick wipe \$@ %<

?T:list_request list_sub list_unsub list_name

?X:

?X: The cf_name dependency is used through list_sub when the mailing list

?X: manager happens to be listserv, whereas cf_email is used with majordomo

?X: or when the mailing list request address is scanned by a human. Since

?X: they do not appear within the unit itself, we need a lint hint.

?X:

?LINT:use cf_name cf_email

: offer to join the mailing list

list_request='<\$list_request>'

list_sub="<\$list_sub>"

list_unsub="<\$list_unsub>"

list_name="<\$list_name>"

\$cat <<EOM

There is a mailing list for discussion about \$package and related issues.

This is the preferred place to ask questions about the program and discuss modifications and additions with the author and other users. If you are able to send mail to the Internet, you

are encouraged to subscribe. You need only

ever subscribe once, and you can unsubscribe automatically at any time in the

future. If you have already subscribed and you wish to unsubscribe now, you

may do so by answering "unsubscribe". Answer "subscribe" to subscribe to the list.

EOM

rp="Subscribe to or unsubscribe from the \$list_name mailing list?"

dflt=neither

./myread

case "\$ans" in

[sS]*) \$cat <<EOM

You will be sent a message from the list server to let you know when your

subscription has been successful and telling you how to submit articles and

how to unsubscribe again when necessary. You may also unsubscribe by running this script again and asking it to do so for you.

EOM

echo "Sending mail to subscribe you to the \$list_name list..." >&4

\$mailer \$list_request <<EOM >/dev/null 2>&1

Precedence: junk

To: \$list_request

```
$list_sub
EOM
;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
$mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
$list_request
```

```
$list_unsub
EOM
;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1 1993/08/25 14:00:05 ram
?RCS:
patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:50 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
```

```
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S: set symbol result [-fva] [previous]
?S: eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:..
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
   tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
case "$runnm" in
true)
if $contains $tlook $tf >/dev/null 2>&1;
then tval=true;
else tval=false;
fi;;
*)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
```


?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
 ?X: trick is obsoleted by future gcc releases). -- RAM
 ?X:
 ?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
 ?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
 ?X:
 echo "extern char \$1\$tdc; int main() { return &\$1\$tc + 2; }" > t.c;
 if \$cc \$ccflags \$ldflags -o t t.c \$libs >/dev/null 2>&1;
 then tval=true;
 else tval=false;
 fi;
 \$rm -f t t.c;;
 esac;;
 *)
 case "\$tval" in
 \$define) tval=true;;
 *) tval=false;;
 esac;;
 esac;
 eval "\$2=\$tval"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Csym.U

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

?RCS: \$Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi \$
 ?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic Licence,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: manfmt.U,v \$
 ?RCS: Revision 3.0.1.5 1997/02/28 16:11:57 ram
 ?RCS: patch61: don't ask for AFS when they choose to not install pages
 ?RCS:
 ?RCS: Revision 3.0.1.4 1995/09/25 09:16:52 ram
 ?RCS: patch59: unit is now forced to the top of Configure, if possible
 ?RCS:
 ?RCS: Revision 3.0.1.3 1995/01/30 14:39:20 ram
 ?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
 ?RCS: patch49: can now handle installation prefix changes (from WED)
 ?RCS:
 ?RCS:

```

Revision 3.0.1.2 1994/08/29 16:30:31 ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:09:22 ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
  spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
  the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

```

\$spackage has pre-formatted manual pages. If you don't want these installed,
answer 'none' to the next question.

```

EOM
case "$manfmt" in
")
  lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
  lookpath="$lookpath $prefixexp/catman/u_man/man1"
  lookpath="$lookpath $prefixexp/catman/l_man/man1"
  lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"

```

```

lookpath="$lookpath /usr/catman/man1 /usr/man/cat1"
lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
dflt=`./loc . none $lookpath`
set dflt
eval $prefixup
;;
*) dflt="$manfmt"
;;
esac
fn=dn~
rp='Where
do pre-formatted manual pages go?'
./getfile
if test "X$manfmtexp" != "X$ansexp"; then
installmanfmt="
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installmanfmt" in
") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#^`;;
*) dflt="$installmanfmt";;
esac
fn=de~
rp='Where will pre-formatted man pages be installed?'
./getfile
installmanfmt="$ans"
else
installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*1) manext=1;;
*n) manext=n;;
*o) manext=1;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;

```

```
*) manext=1;;  
esac
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/manfmt.U  
No license file was found, but licenses were detected in source scan.
```

```
# Yes, you may rip this off to use in other distribution packages. This  
# script belongs to the public domain and cannot be copyrighted.  
#
```

Found in path(s):

```
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Head.U  
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Head.U  
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999, Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: vendorhtml1dir.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \  
Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
```

```
?MAKE: -pick add $@ %<
```

```
?Y:TOP
```

```
?S:vendorhtml1dir:
```

```
?S: This variable contains the name of the directory for html
```

```
?S: pages. It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this  
directory.
```

```
?S: Vendors who distribute perl may wish to place their own
```

```
?S: html pages in this directory with
```

```
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
```

```
?S: or equivalent. See INSTALL for details.
```

```
?S:.
```

```
?S:vendorhtml1direxp:
```

```
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
```

```
?S: may use it directly in Makefiles or shell scripts.
```

```
?S:.
```

```

?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
vendorhtml1direxp="
;;
*) : determine where vendor-supplied html pages go.
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
: XXX Better default suggestions would be welcome.
case "$vendorhtml1dir"
in
") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
*) dflt=$vendorhtml1dir ;;
esac
case "$dflt" in
"|") dflt=none ;;
esac
fn=dn+~
rp='Pathname for the vendor-supplied html pages?'
. ./getfile
vendorhtml1dir="$ans"
vendorhtml1direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml1dir.U

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

?RCS: \$Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libnlist.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:08:02 ram

?RCS: patch61: added usrinc and mips on the dependency line

?RCS: patch61: make sure we call ./mips

?RCS: patch61: added a ?LINT: hint

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:00 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libnlist: Loc libpth Guess usrinc _a

?MAKE: -pick add \$@ %<

?S:libnlist (libmld):

?S: This variable contains the name of the library required to
get the

?S: definition of the nlist() function. On a MIPS RISC/OS box, it is -lmld.

?S: Under Sys Vr4, it is -lelf. Otherwise, its value is empty.

?S:.

?T:xxx

?LINT:use usrinc

: see if we need a special library for 'nlist()'

echo " "

: How about doing this if nlist is not in libc...

if ./mips ; then

libnlist='-lmld'

else

xxx=`./loc libelf\$_a x \$libpth`

case "\$xxx" in

x) ;;

*)

libnlist="\$xxx"

;;

esac

fi

case "\$libnlist" in

") echo "No special library for nlist() seems necessary." >&4

;;

*) echo "nlist() can be found in \$libnlist." >&4

;;

esac

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnlist.U

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

?RCS: \$Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
 ?RCS:
 ?RCS: You may redistribute only under the terms of the Artistic Licence,
 ?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: h_sysfile.U,v \$
 ?RCS: Revision 3.0 1993/08/18 12:08:13 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?MAKE:h_sysfile: Nothing
 ?MAKE: -pick add \$@ %<
 ?S:h_sysfile:
 ?S: This is variable gets set in various places to tell i_sys_file that
 ?S: <sys/file.h> should be included.
 ?S:.
 : Initialize h_sysfile
 h_sysfile=false

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_sysfile.U

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

?RCS: \$Id\$
 ?RCS:
 ?RCS: Copyright (c) 1998 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?X: This unit generates a \$hasfield string that is used internally
 ?X: by Configure to check if this system has a field for a
 ?X: particular struct (of if this system has a particular struct!)
 ?X:
 ?X: To use it, say something like:
 ?X: set d_statblocks stat st_blocks i_sysstat sys/stat.h
 ?X: eval \$hasfield
 ?X: Or, for more complicated sets of headers, do something like
 ?X: hdrs="\$define sys/foo.h
 ?X: \$i_sysbar sys/bar.h
 ?X: \$i_syszot sys/zot.h
 ?X: \$i_zappa zappa.h"
 ?X: set d_statblocks stat st_blocks \$hdrs
 ?X: eval \$hasfield
 ?X:

```
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
case "$1" in
$define) echo "#include <$2>";;
esac ;
shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
val="$define";
else
val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):

* /perl-5-38-2-origin-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasfield.U

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

?RCS: \$Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: installprefix.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?RCS:

?MAKE:installprefix installprefixexp: Getfile Loc \

Oldconfig afs cat package prefix

?MAKE: -pick add \$@ %<

?S:installprefix:

?S: This variable holds the name of the directory below which

?S: "make install" will install the package. For most users, this

?S: is the same

as prefix. However, it is useful for

?S: installing the software into a different (usually temporary)

?S: location after which it can be bundled up and moved somehow

?S: to the final location specified by prefix.

?S:.

?S:installprefixexp:

?S: This variable holds the full absolute path of installprefix

?S: with all ~-expansion done.

?S:.

: determine installation prefix for where package is to be installed.

if \$afs; then

\$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which files will reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

EOM

case "\$installprefix" in

") dflt=`echo \$prefix | sed 's#^/afs/#/afs/.#`;;

*) dflt="\$installprefix";;

esac

else

\$cat <<EOM

In some special cases, particularly when building \$package for distribution, it is convenient to distinguish the directory in which files should be installed from the directory (\$prefix) in which they will eventually reside. For most users, these two directories are the same.

EOM

case "\$installprefix" in

") dflt=\$prefix ;;

*) dflt=\$installprefix;;

esac

fi

fn=d~

rp='What installation prefix should I use for installing files?'

./getfile

installprefix="\$ans"

installprefixexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installprefix.U

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

?RCS: \$Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: MailAuthor.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 15:04:41 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.4 1994/08/29 16:05:09 ram

?RCS: patch32: avoid message sending if they said no previously

?RCS:

?RCS: Revision 3.0.1.3 1993/10/16 13:47:30 ram

?RCS: patch12: now makes sure user-specified address is in Internet format

?RCS:

?RCS: Revision

3.0.1.2 1993/09/13 15:48:49 ram

?RCS: patch10: reverted to original intent by the Author himself

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:38:38 ram

?RCS: patch7: now prompts user for its e-mail address

?RCS: patch7: no longer silent when mail has been sent

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:06 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?RCS:

?X:

?X: This unit asks the user to please send a message to the author.

?X: To force inclusion of this unit, you must add it's name to the

?X: dependancies on the MAKE line in your private copy of End.U.

?X: This allows a smart mailagent program to automatically let users know

?X: when their package is out of date, and to allow users to be notified of

?X: any future patches.

?X:

?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \

package Myread patchlevel baserev rm rsrc Oldconfig Configdir

?MAKE: -pick wipe \$@ %<

?S:mailpatches:

?S: Indicates whether the user would like future patches to be mailed

?S: directly
to them.

?S:.

?S:notifypatches:

?S: Indicates whether the user would like notification of future patches

?S: mailed to them.

?S:.

?S:usermail:

?S: This variable is used internally by Configure to keep track of the

?S: user e-mail address, where notifications or patches should be sent.

?S: A '-' value means the return address will be extracted by parsing

?S: the mail headers.

?S:.

?T:opt mailpatches notifypatches atsh status

: notify author that his package is used

if \$test -f ../config/mailauthor &&

cmp \$src/patchlevel.h ../config/mailauthor >/dev/null 2>&1

then

status="say that you're using \$package";

case "\$mailpatches" in

true) status='have patches mailed to you as they are issued';;

esac

case "\$notifypatches" in

true) status='be notified when new patches are issued';;

esac

\$cat <<EOM

You have already sent the author of \$package (<MAINTLOC>) mail to

\$status. If you wish, you may modify

your previous request by sending a new mail with different options.

EOM

rp='Should

I send a status update to <MAINTLOC>?'

dflt=n

else

\$cat <<EOM

If you are able to send mail to the Internet, the author of \$package would really appreciate you letting me send off a quick note, just to say that you've tried it. The author is more likely to spend time maintaining \$package if it's known that many people are using it, and you can even ask to get sent new patches automatically this way if you wish. To protect your privacy, all I'll say in the mail is the version of \$package that you're using.

EOM

```

rp='Should I send mail to <MAINTLOC>?'
dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
$test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
echo " "
echo "Great! Your cooperation is really appreciated."
$cat <<EOM

```

Some braindead sites do not set a proper return address in the From: header of their outgoing mail, making it impossible to reply to mail they generate. If your site is broken in this way, write to your system administrator and get it fixed!!! In the mean time, you can manually specify the Internet e-mail address by which the author can get back to you, should there be a need to do so. If manually specified, it should be something like "user@domain.top". If your mail system generates addresses correctly, specify "none".

```

EOM
case "$usermail" in
'|') dflt=none;;
*) dflt="$usermail";;
esac
rp='Manually specify a return address to use:'
. ./myread
case "$ans" in
none|*@*.*)
case "$ans" in
none) usermail='-';;
*) usermail="$ans";;
esac
;;
*)
echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
RAM.
?X:
usermail='- '
mailpatches=false
notifypatches=false

```

```

;;
esac
echo " "
opt=""
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
mailpatches=false
echo " "
rp='Ok, would you like to simply be notified of new patches?'
case "$notifypatches" in
false) dflt=n;;
*) dflt=y;;
esac
. ./myread
echo " "
case "$ans" in
[yY]*) opt=' notifypatches'; notifypatches=true;;
*)
echo "Fine, I'll simply say that you've tried it then."
notifypatches=false
;;
esac
;;
esac
echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
atsh='@SH'
$mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
package $usermail $package $baserev $patchlevel$opt
EOM
$rm -f ../.config/mailauthor ../.config/nomail
cp $src/patchlevel.h ../.config/mailauthor
;;
*)

```

```

case "$dflt" in
"y")
echo "Oh well, maybe next time."
cp /dev/null ../config/nomail
;;
esac
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailAuthor.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cf_email.U,v \$

?RCS: Revision 3.0.1.1 1994/01/24 14:05:06 ram

?RCS: patch16: created

?RCS:

?RCS:

?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread

?MAKE: -pick add \$@ %<

?S:cf_email:

?S: Electronic mail address of the person who ran Configure. This can be

?S: used by units that require the user's e-mail, like MailList.U.

?S:.

?T:cont maildomain

?LINT:extern MAILDOMAIN

: determine the e-mail address of the user who is running us

\$cat <<EOM

I need to get your e-mail address

in Internet format if possible, i.e.

something like user@host.domain. Please answer accurately since I have

no easy means to double check it. The default value provided below

is most probably close to reality but may not be valid from outside

your organization...

EOM

cont=x

```

while test "$cont"; do
case "$MAILDOMAIN" in
")
if $test -s /etc/mailname; then
maildomain=`$cat /etc/mailname`
else
maildomain="$myhostname$mydomain"
fi
;;
*) maildomain="$MAILDOMAIN";;
esac
case "$cf_email" in
") dflt="$cf_by@$maildomain";;
*) dflt="$cf_email";;
esac
rp='What is your e-mail address?'
. ./myread
cf_email="$ans"
case "$cf_email" in
*@*.**) cont=" ;;
*)
rp='Address does not look like an Internet one. Use it anyway?'
case "$fastread" in
yes) dflt=y ;;
*) dflt=n ;;
esac
. ./myread
case "$ans" in
y*) cont=" ;;
*) echo " " ;;
esac
;;
esac
done

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_email.U

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

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Unix.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram

?RCS: patch61: created

?RCS:

?X:

?X: The purpose of this unit is to define things that are common across all

?X: known UNIX platforms. If Configure is ported/used on a non-UNIX

?X: environment, then some of the following variables can be redefined in hint

?X: files.

?X:

?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig

?MAKE: -pick add \$@ %<

?S:_a (lib_ext):

?S: This variable defines the extension

used for ordinary libraries.

?S: For unix, it is '.a'. The '.' is included. Other possible

?S: values include '.lib'.

?S:.

?S:_o (obj_ext):

?S: This variable defines the extension used for object files.

?S: For unix, it is '.o'. The '.' is included. Other possible

?S: values include '.obj'.

?S:.

?S:firstmakefile:

?S: This variable defines the first file searched by make. On unix,

?S: it is makefile (then Makefile). On case-insensitive systems,

?S: it might be something else. This is only used to deal with

?S: convoluted make depend tricks.

?S:.

?S:archobjs:

?S: This variable defines any additional objects that must be linked

?S: in with the program on this architecture. On unix, it is usually

?S: empty. It is typically used to include emulations of unix calls

?S: or other facilities. For perl on OS/2, for example, this would

?S: include os2/os2.obj.

?S:.

?INIT:: Extra object files, if any, needed on this platform.

?INIT:archobjs="

: Define several unixisms.

: Hints files

or command line option can be used to override them.

case "\$_a" in

") _a='.a';;

esac

case "\$_o" in

") _o='.o';;

esac

@if firstmakefile

: Which makefile gets called first. This is used by make depend.

case "\$firstmakefile" in

") firstmakefile='makefile';;

esac

@end

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Unix.U

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

?RCS: \$Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Unix.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram

?RCS: patch61: created

?RCS:

?X:

?X: The purpose of this unit is to define things that are common across all

?X: known UNIX platforms. If Configure is ported/used on a non-UNIX

?X: environment, then some of the following variables can be redefined in hint

?X: files.

?X:

?MAKE: Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \

firstmakefile archobjs rm_try: Oldconfig rm

?MAKE: -pick add \$@ %<

?S: _exe:

?S: This

variable defines the extension used for executable files.

?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.

?S: On operating systems which do not require a specific extension

?S: for executable files, this variable is empty.

?S:.

?S: _a:

?S: This variable defines the extension used for ordinary library files.

?S: For unix, it is '.a'. The '.' is included. Other possible

?S: values include '.lib'.

?S:.

?S:_o:

?S: This variable defines the extension used for object files.

?S: For unix, it is '.o'. The '.' is included. Other possible

?S: values include '.obj'.

?S:.

?S:firstmakefile:

?S: This variable defines the first file searched by make. On unix,

?S: it is makefile (then Makefile). On case-insensitive systems,

?S: it might be something else. This is only used to deal with

?S: convoluted make depend tricks.

?S:.

?S:archobjs:

?S: This variable defines any additional objects that must be linked

?S: in with the program on this architecture. On unix, it is usually

?S: empty.

It is typically used to include emulations of unix calls

?S: or other facilities. For perl on OS/2, for example, this would

?S: include os2/os2.obj.

?S:.

?X: Metaconfig's Obsolete symbol stuff is too over-eager. In the

?X: perl sources, it picks up things like "P" and "FLOCK" that are

?X: not used in the way Metaconfig thinks they are. Thus I can't

?X: just declare these obsolete and then run metaconfig -o.

?X: Instead, I'll just handle them here.

?X: Sadly, history has conspired to give us a web of definitions;

?X: this could have been much simpler.

?S:lib_ext:

?S: This is an old synonym for _a.

?S:.

?S:exe_ext:

?S: This is an old synonym for _exe.

?S:.

?S:obj_ext:

?S: This is an old synonym for _o.

?S:.

?S:path_sep:

?S: This is an old synonym for p_ in Head.U, the character

?S: used to separate elements in the command shell search PATH.

?S:.

?S:rm_try:

?S: This is a cleanup variable for try test programs.

?S: Internal Configure use only.

?S:.

?LINT: change p_

?INIT::

Trailing extension. Override this in a hint file, if needed.

?INIT:: Extra object files, if any, needed on this platform.

```
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
") ;;
*) _exe="$exe_ext" ;;
esac
;;
esac
case "$_a" in
") case "$lib_ext" in
") _a='.a';;
*) _a="$lib_ext" ;;
esac
;;
esac
case "$_o" in
") case "$obj_ext" in
") _o='.o';;
*) _o="$obj_ext";;
esac
;;
esac
case "$p_" in
") case "$path_sep" in
") p_='.';;
*) p_="$path_sep";;
esac
;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first. This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Unix.U

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

/*

* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: scandir.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:45 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/scandir.C

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: orderlib.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 16:18:18 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS: patch61: likewise for .o replaced by \$_o

?RCS: patch61: now uses the ar located by Loc.U

?RCS:

?RCS: Revision 3.0.1.3 1995/01/11 15:33:04 ram

?RCS: patch45: allows hint files to specify their own value for 'ranlib'

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:26:48 ram

?RCS: patch36: now performs a real small compile for accurate checks (ADO)

?RCS:

?RCS: Revision 3.0.1.1

```

1994/08/29 16:31:17 ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:26 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive. Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries. Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail. (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "ar appears to generate random libraries itself."
orderlib=false
ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
$cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "a table of contents

```

needs to be added with 'ar ts'."

```
orderlib=false
```

```
ranlib="$ar ts"
```

```
else
```

?X: Allow hints to specify their own ranlib "script". For instance, on

?X: some NeXT machines, the timestamp put by ranlib is not correct, and this

?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the

?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.

?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)

```
case "$ranlib" in
```

```
:) ranlib=";;
```

```
")
```

```
ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
```

```
$test -f $ranlib || ranlib="
```

```
;;
```

```
esac
```

```
if $test -n "$ranlib"; then
```

```
echo "your system has '$ranlib'; we'll use that."
```

```
orderlib=false
```

```
else
```

```
echo "your system doesn't seem to support random libraries"
```

```
echo "so we'll use lorder and tsort to order the libraries."
```

```
orderlib=true
```

```
ranlib=":"
```

```
fi
```

```
fi
```

```
$rm -f foo* bar*
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/orderlib.U

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

?RCS: \$Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: lintlib.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:05 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question. It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
deal with ~name expansion.

?S:.

?S:lintlibexp:

?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.

: determine where public lint libraries go

case "\$lintlib" in

*) dflt=`./loc . " " /usr/local/lib/lint /usr/lib/lint /usr/lib`;;

*) dflt="\$lintlib" ;;

esac

echo " "

fn=d~

rp='Where do you want to put the public lint libraries?'

./getfile

lintlib="\$ans"

lintlibexp="\$ansexp"

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lintlib.U

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?RCS: \$Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Andy Dougherty

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?RCS:

?RCS: \$Log: vendorhtml3dir.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \

Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorhtml3dir:

?S: This variable contains the name of the directory for html

?S: library pages. It may have a ~ on the front.

?S: The standard distribution will put nothing
in this directory.

?S: Vendors who distribute perl may wish to place their own
html pages for modules and extensions in this directory with
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorhtml3direxp:

?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorhtml3dir="

?S:installvendorhtml3dir:

?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installvendorhtml3dir

: Set the vendorhtml3dir variables

case "\$vendorprefix" in

") vendorhtml3dir="

vendorhtml3direxp="

::

*) : determine where vendor-supplied module html pages go.

: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.

: XXX Better default
suggestions would be welcome.

case "\$vendorhtml3dir" in

") dflt=`echo "\$html3dir" | \$sed "s#^\$prefix#\$vendorprefix#"` ;;

*) dflt=\$vendorhtml3dir ;;

esac

case "\$dflt" in

"|") dflt=none ;;

esac

fn=dn+~

rp='Pathname for the vendor-supplied html pages?'

. ./getfile

vendorhtml3dir="\$ans"

vendorhtml3direxp="\$ansexp"

::

esac

: Use ' ' for none so value is preserved next time through Configure

\$test X"\$vendorhtml3dir" = "X" && vendorhtml3dir=' '

prefixvar=vendorhtml3dir

. ./installprefix

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml3dir.U

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?RCS: \$Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: libyacc.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 16:09:19 ram

?RCS: patch61: replaced .a with \$_a all over the place

?RCS:

?RCS: Revision 3.0.1.3 1994/05/13 15:27:12 ram

?RCS: patch27: added yacc case (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:09:01 ram

?RCS: patch23: now uses full library path instead of -l notation

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:13:49 ram

?RCS: patch16: un-obsolete this unit for smooth yacc compilations

?RCS:

?RCS:

Revision 3.0 1993/08/18 12:09:04 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libyacc: Loc yacc libpth _a

?MAKE: -pick add \$@ %<

?S:libyacc:

?S: This variable contains the argument to pass to the loader in order

?S: to get the yacc library routines. If there is no yacc or yacc

?S: library, it is null.

?S:.

?T:xxx

: see if we should include -ly

echo " "

case "\$yacc" in

byacc)

echo "You are using byacc, so I won't look for a yacc library." >&4

libyacc="

::

*yacc)

xxx=`./loc liby\$_a x \$libpth`

```

case "$xxx" in
x)
echo "No yacc library found." >&4
libyacc="
;;
*)
echo "yacc library found in $xxx." >&4
libyacc="$xxx"
;;
esac
;;
*bison*)
echo "You are using bison, so I won't look for a yacc library." >&4
libyacc="
;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
libyacc="
;;
esac

```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libyacc.U

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?RCS: \$Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: longsize.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:09:35 ram

?RCS: patch61: code moved to intsize.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:24:31 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: 'longsize' is now defined within intsize.U

?X:

?LINT: empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/longsize.U

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?RCS: \$Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d_group.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:34:52 ram

?RCS: patch61: useless unit dropped.

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:07:48 ram

?RCS: patch32: created by ADO

?RCS:

?X:

?X: Useless unit dropped.

?X:

?LINT:empty

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_group.U

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?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi \$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: \$Log: Warn_v7ND.U,v \$
?RCS: Revision 3.0.1.1 1994/10/29 16:01:46 ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add \$@ %<
: Warnings
if ./v7; then
cat
<<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read. If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the \$package package
may not work as well as it might. It might not work at all.

EOM
fi

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7ND.U

1.779 libcapbin 2.66-5ubuntu2.1

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1.781 python-certifi 2025.1.31

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ca-bundle.crt -- Bundle of CA Root Certificates

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: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt> It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.782 python-certifi 2025.01.31

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1.783 wget 1.25.0-r1

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now		
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1.787 python3.12-minimal 3.12.3-1ubuntu0.4

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.789 grpc-go 1.70.0

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1.795 x-sys 0.30.0

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1.796 x-sync 0.11.0

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1.797 protobuf-go 1.36.5

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1.798 pyc 3.12.9-r0

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

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1.799 python3-pyc 3.12.9-r0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.0	1.6	2000	BeOpen.com	no
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.801 python3-pycache-pyc0 3.12.9-r0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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2.1	2.0+1.6.1	2001	PSF	no
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Appendix: How to Apply These Terms to Your New Programs

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

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

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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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Version 2, June 1991

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concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification

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

That's all there is to it!

This is the Debian prepackaged version of the Debian Base System Miscellaneous files. These files were written by Ian Murdock <imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>, from his own sources.

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1.807 openssl 3.3.3-r0

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```
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```
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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pkgname=alpine-base

pkgver=3.21.3

pkgrel=0

pkgdesc="Meta package for minimal alpine base"

url="https://alpinelinux.org"

arch="noarch"

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1.811 musl-utils 1.2.5-r9

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1.812 apk-tools 2.14.6-r3

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1.814 libcurl 8.12.1-r0

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lib/libgss/gssd_pname_to_uid.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof_hdr.h
kadmin/server/iprofd_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gssapi/mechglue/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.823 logr 1.4.2

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1.824 x-term 0.29.0

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1.825 alpine-release 3.21.3-r0

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```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
buildid="$srcdir/${_pkgreal}-$pkgver"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
```

```

PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
INSTALLDIRS=vendor \
NO_PACKLIST=1 \
NO_PERLLOCAL=1
make
}

check() {
export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
make test
}

package() {
make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"

# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
default_prepare

cargo fetch --target="$CTARGET" --locked
}

build() {
cargo auditable build --release --frozen
}

check() {
cargo test --frozen
}

package() {
install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin

```

```
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

```
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```

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```
# Contributor: Dhruvin Gandhi <contact@dhruvin>
```

```
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
```

```
pkgname=py3-license-expression
```

```
_pkgname=license_expression
```

```
pkgver=30.4.0
```

```
pkgrel=0
```

```
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
```

```
url="https://github.com/nexB/license-expression"
```

```
arch="noarch"
```

```
license="Apache-2.0"
```

```
depends="python3 py3-boolean.py"
```

```
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
```

```
checkdepends="py3-pytest py3-pytest-xdist"
```

```
subpackages="$pkgname-pyc"
```

```
source="https://files.pythonhosted.org/packages/source/l/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
```

```
builddir="$srcdir/${_pkgname}-${pkgver}"
```

```
build() {
```

```
    gpep517 build-wheel \
```

```

--wheel-dir .dist \
--output-fd 3 3>&1 >&2
}

check() {
python3 -m venv --clear --without-pip --system-site-packages .testenv
.testenv/bin/python3 -m installer .dist/*.whl
.testenv/bin/python3 -m pytest
}

package() {
python3 -m installer -d "$pkgdir" \
.dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
license_expression-30.4.0.tar.gz
"

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

```

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vintagedreamworks@hotmail.com

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbci.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

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mini_sendmail - accept email on behalf of real sendmail

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=8

pkgdesc="A library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

```

options="!check" # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
"

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
    update_config_sub
    default_prepare
}

build() {
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr
    make
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

```

1.826 simple launcher 1.1.0.14

1.826.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====
Distutils2 Contributors

=====
The Distutils2 project was started by Tarek Ziad and is currently

maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
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- Anthony Baxter
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- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: distutils-sig@python.org

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

Installation Instructions

Windows

=====

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer, please be sure to also *uninstall that older version* via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``\$prefix/bin`` for scripts), please use the ``.egg``-based installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.
2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than `site-packages` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as `--prefix`, `--install-dir`, and so on, following the `.egg` filename on the same

command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially the section on custom installation locations.

.. `EasyInstall manual`: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. the section on custom installation locations: <http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations>

Cygwin Note

If you are trying to install setuptools for the `Windows` version of Python (as opposed to the Cygwin version that lives in `/usr/bin`), you must make sure that an appropriate executable (`python2.3`, `python2.4`, or `python2.5`) is on your `Cygwin` `PATH` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools for the `Windows` Python found at `C:\Python24`:

```
ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

Downloads

=====

All setuptools downloads can be found at the project's home page in the Python Package Index. Scroll to the very bottom of the page to find the links.

.. the project's home page in the Python Package Index: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. `0.6 branch`: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. `Python SVN sandbox`: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- * `The EasyInstall user's guide and reference manual`_
- * `The setuptools Developer's Guide`_
- * `The pkg_resources API reference`_
- * `Package Compatibility Notes`_ (user-maintained)
- * `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: <http://bugs.python.org/setuptools/>
.. _Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>
.. _The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>
.. _The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>
.. _The pkg_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>
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.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

Credits

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of `easy_install`, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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Platform: UNKNOWN

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Classifier: Intended Audience :: Developers

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.829 lvm2 2.03.16-3ubuntu3.2

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1.830 cryptsetup 2.7.0-1ubuntu4.2

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1.831 libffi 3.4.7-r0

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1.833 golang 1.23.7

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1.837 genproto-googleapis-api 0.0.0-20250303144028-a0af3efb3deb

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page_title: Nomad Enterprise License FAQ

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Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

Nomad Enterprise License FAQ

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document
using the version drop-down on this page, e.g. [v1.5.x]/(nomad/docs/v1.5.x/enterprise/license/faq).

Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time, expiration time is compared to the build date of the Nomad binary, which you can find in the output of the `[nomad version](/nomad/docs/commands/version)` command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad built prior to the expiration time of the license. No features will stop working, and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start. To proactively avoid that, you can test a new binary with your license using the new `[nomad license inspect](/license/inspect)` command before trying to upgrade your servers.

Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [\[v1.6.0 Upgrade Guide\]\(/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate\)](/v1.6.0/Upgrade%20Guide)
- [\[Nomad License Documentation\]\(/nomad/docs/enterprise/license\)](/Nomad%20License%20Documentation)
- [\[License configuration values documentation\]\(/nomad/docs/configuration/server#license_path\)](/License%20configuration%20values%20documentation)
- [\[Install a HashiCorp Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license\)](/Install%20a%20HashiCorp%20Enterprise%20License%20Tutorial)

##

Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present.
Nomad agents running with the `-dev`` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional (i.e. it is in grace period between `ExpirationTime` and `TerminationTime`), then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version, be sure to run `[`nomad license inspect`][license inspect]` with the new binary.

Q: How can a user get their existing license?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-software@hashicorp.com for information on how to get your organization's enterprise license.

You can use ``nomad license get`` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.

In that case, the server agent will fail to start, and you'll need to roll back to the previous working version and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

Q: Where can users get a trial license for Nomad?

Follow [\[these instructions\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license\)](#) to request and enable a free 30-day trial license.

Q: When a Nomad client agent restarts, will it still need a license file?

Every time ``nomad agent`` runs as a server (or in ``-dev``), it requires a license.

Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration, you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration, roll back to a previous version is not supported due to the Nomad state store not having forward compatibility, and may result in a crash loop.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [\[Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license\)](#).

`[license inspect]: /nomad/docs/commands/license/inspect`

// Copyright (c) HashiCorp, Inc.

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package command

```
import (  
    "fmt"  
    "strings"  
    "time"  
  
    "github.com/hashicorp/cli"  
    "github.com/hashicorp/nomad/api"  
)  
  
var _ cli.Command = &LicenseCommand{ }  
  
type LicenseCommand struct {  
    Meta  
}  
  
func (l *LicenseCommand) Help() string {  
    helpText := `  
Usage: nomad license <subcommand> [options] [args]
```

This command has subcommands for managing the Nomad Enterprise license.

For more detailed examples see:

<https://developer.hashicorp.com/nomad/docs/commands/license>

Retrieve the server's license:

```
$ nomad license get  
  
`  
return strings.TrimSpace(helpText)  
}  
  
func (l *LicenseCommand) Synopsis() string {  
    return "Interact with Nomad Enterprise License"  
}  
  
func (l *LicenseCommand) Name() string { return "license" }  
  
func (l *LicenseCommand) Run(args []string) int {  
    return cli.RunResultHelp  
}  
  
func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {  
    now := time.Now()  
    expired := resp.License.ExpirationTime.Before(now)  
    terminated
```

```

:= resp.License.TerminationTime.Before(now)
outputLicenseInfo(ui, resp.License, expired, terminated)
if expired {
    return 1
}
return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
    expStr := ""
    if expired {
        expStr = fmt.Sprintf("Expired At%s", lic.ExpirationTime.String())
    } else {
        expStr = fmt.Sprintf("Expires At%s", lic.ExpirationTime.String())
    }
    termStr := ""
    if terminated {
        termStr = fmt.Sprintf("Terminated At%s", lic.TerminationTime.String())
    } else {
        termStr = fmt.Sprintf("Terminates At%s", lic.TerminationTime.String())
    }

    validity := "valid"
    if expired {
        validity = "expired!"
    }

    output := []string{
        fmt.Sprintf("Product%s", lic.Product),
        fmt.Sprintf("License Status%s", validity),
        fmt.Sprintf("License ID%s", lic.LicenseID),
        fmt.Sprintf("Customer ID%s", lic.CustomerID),
        fmt.Sprintf("Issued At%s", lic.IssueTime),
        expStr,
        termStr,
        fmt.Sprintf("Datacenter%s", lic.InstallationID),
    }
    ui.Output(formatKV(output))

    if
    len(lic.Modules) > 0 {
        ui.Output("Modules:")
        for _, mod := range lic.Modules {
            ui.Output(fmt.Sprintf("\t%s", mod))
        }
    }
    if len(lic.Features) > 0 {
        ui.Output("Licensed Features:")
        for _, f := range lic.Features {

```

```
    ui.Output(fmt.Sprintf("%t%s", f))
  }
}
}
```

layout: docs

page_title: 'Commands: license'

description: |

The license command is used to interact with an enterprise license.

Command: license

~> License commands are only available with Nomad Enterprise.

The `license` commands can be used to retrieve license information from a server, or inspect and validate a license.

Click [here](https://www.hashicorp.com/products/nomad/trial) to get a trial license for Nomad Enterprise.

Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:

- [`license get`][get] - Get the current license from a server
- [`license inspect`][inspect] - Inspect and validate a license

[get]: /nomad/docs/commands/license/get 'Get the current license from a server'

[inspect]: /nomad/docs/commands/license/inspect 'Inspect and validate a license'

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layout: docs

page_title: 'Commands: license get'

description: |

The license get command is used to get the current license.

Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are only available with Nomad Enterprise.

Usage

```plaintext

nomad license get [options]

```

When ACLs are enabled, this command requires a token with the 'operator:read'

capability.

General Options

@include 'general_options_no_namespace.mdx'

Examples

```shell-session

\$ nomad license get

```
Product = nomad
License Status = valid
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At = 2020-05-09 00:00:00 +0000 UTC
Terminates At = 2020-05-10 00:00:00 +0000 UTC
Datacenter
 = *
Modules:
 governance-policy
Licensed Features:
 Automated Upgrades
 Enhanced Read Scalability
 Redundancy Zones
 Namespaces
 Resource Quotas
 Preemption
 Audit Logging
 Setinel Policies
...
```

```shell-session

\$ nomad license get -stale=true

```
Product      = nomad
License Status = valid
License ID    = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID   = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At     = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At    = 2022-04-01 00:00:00 +0000 UTC
Terminates At = 2022-04-04 00:00:00 +0000 UTC
Datacenter    = *
Modules:
  governance-policy
  multicluster-and-efficiency
Licensed Features:
```

Automated Upgrades
Enhanced Read Scalability
Redundancy Zones
Namespaces
Resource Quotas
Audit Logging
Sentinel Policies
Multiregion Deployments
Automated Backups
Multi-Vault Namespaces

...

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//go:build !ent

package nomad

```
func (c *LicenseConfig) Validate() error {  
    return nil  
}
```

layout: docs

page_title: Automated license utilization reporting

description: >-

Learn what data HashiCorp collects to monitor Enterprise license utilization. Enable or opt out of automatic reporting. Review sample payloads and logs.

Automated license utilization reporting

<EnterpriseAlert product="nomad" />

This page provides information on the data HashiCorp collects to monitor Enterprise license utilization. Learn how to enable or opt out of automatic reporting. Review sample payloads and logs.

Introduction

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you to manually collect and report them. It also lets you review your license usage with the monitoring solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your deployments. Use these reports to understand how much more you can deploy under your current contract, protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. They consist of mostly computed metrics and will never contain Personal Identifiable Information

(PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure, unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

1. Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

2. Upgrade

Upgrade to a release that supports license utilization reporting. These releases include:

- [Nomad v1.7.0](/nomad/downloads) and later

3. Check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

Instructions on how to check logs.

...

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording audit record
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"nomad","product_version":"1.6.0","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"nomad","metrics":{"nomad.billable.nodes":{"key":"nomad.billable.nodes","kind":"counter","mode":"write","value":33}}}}]}
```

```
[DEBUG]
completed recording audit record
[DEBUG] core.reporting: export finished successfully
...
```

If your installation is air-gapped or your network doesn't allow the correct egress, logs will show an error.

```
...
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG]
core.reporting: error status code received: statusCode=403
...
```

In this case, reconfigure your network to allow egress and check back in 24 hours.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you're worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting:
HCL configuration (recommended) and Environment variable (requires restart).

Opting out in your products configuration file doesn't require a system restart, and is the method we recommend. Add the following block to your `server.hcl` file.

```
```hcl
reporting {
 license {
 enabled = false
 }
}
```

---

If you need to, you can also opt out using an environment variable, which will provide a startup message confirming that you have disabled automated reporting. This option requires a system restart.

Set the following environment variable.

---

```
$ export OPTOUT_LICENSE_REPORTING=true
```

---

Now restart your system by following [these instructions](/nomad/docs/operations/nomad-agent).

Check your product logs roughly 24 hours after opting out to make sure that the system isn't trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

## ## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

``billable.nodes`` - Number of billable nodes in Nomad

```
```json
"metrics": {
  "nomad.billable.nodes": {
    "key": "nomad.billable.nodes",
    "kind": "counter",
    "mode": "write",
    "value": 33
  }
}
```
```

---

layout: docs

page\_title: Nomad Enterprise Licensing

description: >-

Learn how to configure, apply, and replace your Nomad Enterprise license. Use the ``nomad license`` command to review your license details.

---

# Nomad Enterprise Licensing

<EnterpriseAlert product="nomad"/>

This page provides information on how to configure, apply, inspect, and replace your Nomad Enterprise license.

Each server in a Nomad Enterprise cluster must have a license to start. Download Nomad Enterprise from the [releases site].

[Contact sales](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise.

Refer to the Enterprise license

[tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license) for step-by-step license instructions. Review the [Request a trial license section](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license) for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster, due to raft entries relating to Enterprise features not being parseable by open source Nomad.

## ## Expiring Licenses

Nomad Enterprise licenses have an expiration time.

You can read and validate the license on a running server, on disk, or in your environment with the [nomad license` commands](/nomad/docs/commands/license).

Before upgrading Nomad or replacing your license with a new one, you should always run [nomad license inspect`](/nomad/docs/commands/license/inspect) to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

```
...
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400
[WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400 [WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
...
```



When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

### ## Configuring the License

See the server [license configuration] reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

---

```
NOMAD_LICENSE=misconfigured nomad agent -dev
==> No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer

```

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

[releases site]: <https://releases.hashicorp.com/nomad>  
[license configuration]: /nomad/docs/configuration/server#license\_path  
[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license

---

layout: api  
page\_title: License - Operator - HTTP API  
description: |-  
The /operator/license endpoints allow for retrieving the Nomad Enterprise License.  
---

### # License Operator HTTP API

<EnterpriseAlert />

### ## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

| Method | Path                 | Produces         |
|--------|----------------------|------------------|
| GET    | /v1/operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/nomad/api-docs#blocking-queries) and [required ACLs](/nomad/api-docs#acls).

| Blocking Queries | ACL Required    |
|------------------|-----------------|
| -----            | -----           |
| `NO`             | `operator:read` |

### ### Sample Request

```
```shell-session
$ curl \
  https://localhost:4646/v1/operator/license
```
```

### ### Sample Response

```
```json
{
  "KnownLeader": false,
  "LastContact": 0,
  "LastIndex": 0,
  "License": {
    "CustomerID": "customer name",
    "ExpirationTime":
      "2020-06-01T14:50:16.581304556-04:00",
    "Features": [
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Redundancy Zones",
      "Namespaces",
      "Resource Quotas",
      "Preemption",
      "Audit Logging",
      "Setinel Policies"
    ],
    "Flags": {
      "modules": ["governance-policy"]
    },
    "InstallationID": "*",
    "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
    "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
    "Modules": ["governance-policy"],
    "Product": "nomad",
    "StartTime": "2020-06-01T08:50:16.581304556-04:00",
    "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
  },
  "RequestTime": 0
}
```

```
}  
...
```

```
// Copyright (c) HashiCorp, Inc.  
// SPDX-License-Identifier: BUSL-1.1
```

```
package command
```

```
import (  
    "fmt"  
  
    "github.com/hashicorp/nomad/api"  
    "github.com/posener/complete"  
)
```

```
type LicenseGetCommand struct {  
    Meta  
}
```

```
func (c *LicenseGetCommand) Help() string {  
    helpText := `  
Usage: nomad license get [options]
```

Gets the license loaded by the server. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options:

```
` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)
```

```
return helpText  
}
```

```
func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {  
    return complete.Flags{ }  
}
```

```
func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {  
    return complete.PredictNothing  
}
```

```
func (c *LicenseGetCommand) Synopsis() string {  
    return "Retrieve the current Nomad Enterprise License"  
}
```

```

func (c *LicenseGetCommand)
Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
    flags.Usage = func() { c.Ui.Output(c.Help()) }

    if err := flags.Parse(args); err != nil {
        c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
        return 1
    }

    client, err := c.Meta.Client()
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
        return 1
    }

    resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{ })
    if err != nil {
        c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
        return 1
    }

    return OutputLicenseReply(c.Ui, resp)
}
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: BUSL-1.1

```

```
package command
```

```

import (
    "testing"
    "time"

    "github.com/hashicorp/cli"
    "github.com/hashicorp/nomad/api"
    "github.com/hashicorp/nomad/ci"
    "github.com/shoenig/test/must"
)

var _ cli.Command = &LicenseGetCommand{ }

func TestCommand_LicenseGet_OSS(t *testing.T) {
    ci.Parallel(t)

    srv, _, url := testServer(t, false, nil)
    defer srv.Shutdown()

```

```

ui := cli.NewMockUi()
cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

code := cmd.Run([]string{"-address=" + url})
if srv.Enterprise {
    must.Zero(t, code)
} else {
    must.One(t, code)
    must.StrContains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
}
}

```

```

func TestOutputLicenseReply(t *testing.T) {
    ci.Parallel(t)

```

```

    now := time.Now()
    lic := &api.LicenseReply{
        License: &api.License{
            LicenseID:    "licenseID",
            CustomerID:   "customerID",
            InstallationID: "*",
            IssueTime:     now,
            StartTime:    now,
            ExpirationTime: now.Add(1
* time.Hour),
            TerminationTime: now,
            Product:        "nomad",
            Flags: map[string]interface{}{
                "": nil,
            },
        },
    }
}

```

```

ui := cli.NewMockUi()

must.Zero(t, OutputLicenseReply(ui, lic))

```

```

out := ui.OutputWriter.String()
must.StrContains(t, out, "Customer ID")
must.StrContains(t, out, "License ID")
}

```

// Copyright (c) HashiCorp, Inc.

// SPDX-License-Identifier: BUSL-1.1

package nomad

import (

```

"slices"
"time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
    // BuildDate is the time of the git commit used to build the program.
    BuildDate time.Time

    // LicenseEnvBytes is the license bytes to use for the server's license
    LicenseEnvBytes string

    // LicensePath is the path to use for the server's license
    LicensePath string

    // AdditionalPubKeys is a set of public keys to
    AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {
    if c == nil {
        return nil
    }

    nc := *c
    nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
    return &nc
}
ISC
---
layout: docs
page_title: 'Commands: license inspect'
description: |
    The license inspect command is used to inspect and validate an enterprise license.
---

# Command: license inspect

<EnterpriseAlert>
    This command is only present in Nomad Enterprise.
</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise
license. It will read the license from a file on disk or an environment variable
and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server,

```

as the server agent will not start with an invalid license.

Usage

```plaintext

```
nomad license inspect [/path/to/license.hclic]
```

```

Examples

With a license file argument:

```shell-session

```
$ nomad license inspect /path/to/nomad/license.hclic
```

```
Source: /path/to/nomad/license.hclic
```

```
Product: nomad
```

```
License ID: aaaaaaaa-aaaa-aaaa-aaaaaaaaaaaa
```

```
Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb
```

```
Installation
```

```
ID: *
```

```
Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC
```

```
Start Time: 2021-12-01 00:00:00 +0000 UTC
```

```
Expiration Time: 2023-12-01 00:00:00 +0000 UTC
```

```
Termination Time: 2024-01-01 00:00:00 +0000 UTC
```

```
Build Date: 2000-01-01 00:00:00 +0000 UTC
```

```
Flags: {
```

```
 "modules": [
```

```
 "multicenter-and-efficiency",
```

```
 "governance-policy"
```

```
]
```

```
}
```

```
License is valid
```

```

With a license file environment variable:

```shell-session

```
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hclic
```

```
$ nomad license inspect
```

```
Source: /path/to/nomad/license.hclic (path from the NOMAD_LICENSE_PATH environment variable)
```

```
Product: nomad
```

```
.....
```

```
License is valid
```

```

With a license string environment variable:

```

```shell-session
$ export NOMAD_LICENSE=full-license-text-string
$ nomad license inspect
Source: NOMAD_LICENSE environment variable
....
License is valid
```

## Example error

```shell-session
$ nomad license inspect license.hcl
...
Validation Errors:
* license is no longer valid
* license expiration
date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z
```

```

1.843 crosswork-nca 7.1.0

1.843.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: 2316246cacace20a46eb92a5ac9731a9

1.844 tenacity 9.1.2

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1.845 spew 1.1.2-0.20180830191138-d8f796af33cc

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1.846 logrus 1.9.3

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1.847 gofuzz 1.2.0

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1.848 perks 1.0.1

1.848.1 Available under license :

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1.849 blang-semver 4.0.0

1.849.1 Available under license :

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1.850 ply 3.11

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* /dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py

1.851 expat 2.6.1-2ubuntu0.3

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1.852 assertions 10.x

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1.853 grafana 10.x

1.853.1 Available under license :

```
---
aliases:
- ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
- ../../enterprise/license/activate-aws-marketplace-license/
- ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
to take advantage of Grafana Enterprise observability features
keywords:
- grafana
- aws
- marketplace
- enterprise
- license
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---
```

Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate

the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](https://portal.aws.amazon.com/billing/signup#/start).

aliases:

- ../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
- ../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/

description: Manage your Grafana Enterprise license in AWS Marketplace

keywords:

- grafana
- enterprise
- aws
- marketplace
- manage
- add
- remove
- users

labels:

products:

- enterprise
- oss

title: Manage your Grafana Enterprise license in AWS Marketplace

weight: 400

Manage your Grafana Enterprise license in AWS Marketplace

You can use AWS Marketplace to make the following modifications to your Grafana Enterprise license:

- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

****To modify your Grafana Enterprise subscription in AWS Marketplace:****

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1.

Sign in to Grafana as a Server Administrator.

1. Click ****Administration**** in the side navigation menu, ****General****, and then ****Stats and license****.

1. In the ****Token**** section under ****Enterprise License****, click ****Renew token****.

This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace](../).

```

/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

```

```

module CISCO-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
    prefix "cisco-license-mgmt-mib";

    import ENTITY-MIB {
        prefix "entity-mib";
    }

    import INET-ADDRESS-MIB {
        prefix "inet-address";
    }

    import SNMP-FRAMEWORK-MIB {
        prefix "snmp-framework";
    }

    import SNMPv2-TC {
        prefix "snmpv2-tc";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Cisco Systems Inc.";

    contact
        "Cisco Systems
        Customer Service

        Postal: 170 W Tasman Drive

        San Jose, CA 95134

```

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com";

description

"The MIB module for managing licenses on the system.

The licensing mechanism provides flexibility to enforce licensing for various features in the system.

The following text introduces different concepts and terms those are necessary to understand the MIB definition and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time

and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels

that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.

2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.
6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports

licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
```

```

    rightToUse
o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
    clmgmtFeaturePeriodUsed
o Added the following notifications
    clmgmtLicenseEvalRTUTransitionWarning
    clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
    clmgmtLicenseRTUGroup
    clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
    paidSubscription
    evaluationSubscription
    extensionSubscription
o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicenseStartDate
    clmgmtLicenseEndDate
o Added following objects to clmgmtLicensableFeatureTable
    clmgmtFeatureStartDate
    clmgmtFeatureEndDate
o Added the following notifications
    clmgmtLicenseSubscriptionExpiryWarning
    clmgmtLicenseSubscriptionExtExpiryWarning
    clmgmtLicenseSubscriptionExpired
o Added the following conformance groups
    clmgmtLicenseSubscriptionGroup
    clmgmtLicenseSubscriptionUsageNotifGroup
The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2006-10-03 {
description
"Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {

```

```

type uint32 {
    range "1..4294967295";
}
description
    "A unique value, for each license in the managed system.
    It is not necessary to have values assigned contiguously.
    The value for each license must remain constant
    at least from one re-initialization of the entity's
    network management system to the next re-initialization";
}

typedef ClmgmtLicenseIndexOrZero {
    type uint32;
    description
        "This textual convention is an extension of the ClmgmtLicenseIndex
        convention.
        The latter defines a greater than zero value
        used to identify a license in the managed system. This
        extension permits the additional value of zero. The value
        zero is object-specific and must therefore be defined as
        part of the description of any object which uses this
        syntax. Examples of the usage of zero might include
        situations where license was not present or unknown.";
}

typedef ClmgmtLicenseTransferProtocol {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "local" {
            value "2";
        }
        enum "tftp" {
            value "3";
        }
        enum "ftp" {
            value "4";
        }
        enum "rcp" {
            value "5";
        }
        enum "http" {
            value "6";
        }
        enum "scp" {
            value "7";
        }
    }
}

```

```
enum "sftp" {
    value "8";
}
}
description
"The transfer protocol that should be used for copying files
when performing license management. When
the protocol is
set to local(2), local file system (flash or disk) is used.
Different agents may support different transfer protocols
and the management application is expected to some how determine
which protocol is supported and use.";
}
```

```
typedef ClmgmtLicenseActionState {
type enumeration {
enum "none" {
    value "1";
}
enum "pending" {
    value "2";
}
enum "inProgress" {
    value "3";
}
enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
}
```

description

"The state of license action execution.

none(1) - action is not yet scheduled to be
executed.

pending(2) - All the required parameters for the
action are set and the action is
scheduled
to be executed.

inProgress(3) - action execution has started and is
in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed.";
}

```
typedef ClmgmtLicenseActionFailCause {  
  type enumeration {  
    enum "none" {  
      value "1";  
    }  
    enum "generalFailure" {  
      value "2";  
    }  
    enum "transferProtocolNotSupported" {  
      value  
"3";  
    }  
    enum "fileServerNotReachable" {  
      value "4";  
    }  
    enum "unrecognizedEntPhysicalIndex" {  
      value "5";  
    }  
    enum "invalidLicenseFilePath" {  
      value "6";  
    }  
    enum "invalidLicenseFile" {  
      value "7";  
    }  
    enum "invalidLicenseLine" {  
      value "8";  
    }  
    enum "licenseAlreadyExists" {  
      value "9";  
    }  
    enum "licenseNotValidForDevice" {  
      value "10";  
    }  
  }  
}
```



```

enum "invalidLicenseCount" {
    value "11";
}
enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket"
{
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no

errors.

generalFailure(2) - General licensing failure.

This will be used for resource
unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidLicenseFilePath(6) - The license file path is not
accessible.

invalidLicenseFile(7) - Contents of license file are
not valid.

invalidLicenseLine(8) - License string in the license
file is not valid.

licenseAlreadyExists(9) - Management application is trying
to install a license that already
exists.

licenseNotValidForDevice(10) - This license is not valid for
the device/entPhysicalIndex
specified.

invalidLicenseCount(11) - Invalid count for this counted
license.

invalidLicensePeriod(12) - Validity period is invalid for
this expiring license.

licenseInUse(13) - License file is in use by a
feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the
license storage.

invalidPermissionTicketFile(16) - The permission ticket file
path is not accessible.

invalidPermissionTicket(17) - The permission ticket file
contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is
not accessible.

invalidRehostTicket(19) - The rehost ticket file contents
are not valid.

invalidLicenseBackupFile(20) - License backup store path
is not accessible.

licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This
error code is sent back in

```

        response to a license backup
        action when a license clear
        action is in progress or in
        pending state. Try again in few
        seconds.
    invalidLicenseEULAFile(22) - EULA file path is not accessible.";
}

container CISCO-LICENSE-MGMT-MIB {
    config false;

    container clmgmtLicenseConfiguration {
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

        leaf clmgmtNextFreeLicenseActionIndex {
            type uint32 {
                range "1..4294967295";
            }
            description
            "This object contains appropriate value for
            clmgmtLicenseActionIndex that can be used to create
            an entry in clmgmtLicenseActionTable. The management application
            should read this object first and then use this as the
            value for clmgmtLicenseActionIndex to avoid collisions
            when creating entries in clmgmtLicenseActionTable.
            Following this approach does not guarantee collision free
            row creation, but will reduce the probability. The
            collision will happen if two management applications read this
            object at the same time and attempt to create an entry
            with this value at the same time. In this case, the
            management application whose request is processed after the first
            request will get an error and the process of reading this object
            and
            entry creation needs to be repeated.";
            smiv2:max-access "read-only";
            smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
        }
    }

    container clmgmtLicenseDeviceInformation {
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

        leaf clmgmtNextFreeDevCredExportActionIndex {
            type uint32;
            description
            "This object contains appropriate value for

```

clmgmtDevCredExportActionIndex that can be used to create an entry in clmgmtDevCredExportActionTable. The management application should read this object first and then use this as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time.

In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
}
}
```

```
container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
```

```
leaf clmgmtLicenseUsageNotifEnable {
  type boolean;
  description
    "This object indicates whether the device should generate
    the notifications related to usage of licenses. This object
    enables/disables sending following notifications:
      clmgmtLicenseExpired
      clmgmtLicenseExpiryWarning
      clmgmtLicenseUsageCountExceeded
      clmgmtLicenseUsageCountAboutToExceed
      clmgmtLicenseSubscriptionExpiryWarning
      clmgmtLicenseSubscriptionExtExpiryWarning
      clmgmtLicenseSubscriptionExpired
      clmgmtLicenseEvalRTUTransitionWarning
      clmgmtLicenseEvalRTUTransition";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}
```

```
leaf clmgmtLicenseDeploymentNotifEnable {
  type boolean;
  description
    "This object indicates whether the device should generate
    notifications related to license deployment. This object
```

enables/disables sending following notifications:

```
    clmgmtLicenseInstalled
    clmgmtLicenseCleared
    clmgmtLicenseRevoked
    clmgmtLicenseEULAAccepted";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}
```

leaf clmgmtLicenseErrorNotifEnable {

```
    type boolean;
    description
        "This object indicates whether the device should generate
        notifications related to error conditions in enforcing
        licensing. This object enables/disables sending following
        notifications:
            clmgmtLicenseNotEnforced";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}
```

container clmgmtLicenseActionTable {

```
    description
        "A table for invoking license management actions. Management
        application must create a row in this table to trigger any of
        the license management actions. The following are different
        actions that can be executed using this table.
            1. install
            2. clear
            3. processPermissionTicket
            4. regenerateLastRehostTicket
            5. backup
            6. generateEULA
```

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";
```

list clmgmtLicenseActionEntry {

key "clmgmtLicenseActionIndex";

description

"An entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action

execution by setting clmgmtLicenseActionRowStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtLicenseActionRowStatus to destroy(6) when clmgmtLicenseActionState is pending(2).

The status of action execution can be known by querying clmgmtLicenseActionState. If the action is still in pending(2) or in inProgress(3) state, the management application need to check back again after few seconds. Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgmtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgmtLicenseActionResultTable.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
 - c. clmgmtLicenseServerAddress
 - d. clmgmtLicenseServerUsername
 - e. clmgmtLicenseServerPassword
 - f. clmgmtLicenseFile
 - g. clmgmtLicenseStore
 - h. clmgmtLicenseStopOnFailure
 - i. clmgmtLicenseAcceptEULA
 - j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members within a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating
last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all
licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required
EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol
is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted
except when clmgmtLicenseAction is set
to pending(2). All entries are volatile and are cleared
on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {
type uint32 {
range "1..4294967295";
}
description
"This object uniquely identifies a row in
clmgmtLicenseActionTable. The management application should choose
this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object.";

smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}

leaf clmgmtLicenseActionEntPhysicalIndex
{
type entity-mib:PhysicalIndexOrZero;
description
"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples include stackable switches, devices
with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device";
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

leaf clmgmtLicenseActionTransferProtocol {
type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
description
"This object represents the transfer protocol to be used
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system.";

```
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

```
leaf clmgmtLicenseServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtLicenseServerAddress object.
    This must be set when clmgmtLicenseActionTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval
"unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}
```

```
leaf clmgmtLicenseServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the ip address of the server from
    which the files must be read or written to if
    clmgmtLicenseActionTransferProtocol is not none(1) or
    local(2).
```

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

```
The format of this address depends on the value of the
clmgmtLicenseServerAddressType object";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
```

```
leaf clmgmtLicenseServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
```

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}

```

```

leaf clmgmtLicenseServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

```

```

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

```

```

leaf clmgmtLicenseStore {
  type uint32;
}

```

```

description
    "This object represents the clmgmtLicenseStoreIndex
of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

```

```

leaf clmgmtLicenseActionLicenseIndex {
    type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
    description
        "This object indicates the the license index of the license
        that is the subject of this action. This is used for
        identifying a license for performing actions specific to
        that license. This object need to be set only if
        clmgmtLicenseAction is set to clear(4). The value of this
        object is same as the clmgmtLicenseIndex
object in
        clmgmtLicenseInfoEntry for license that is subject of this
        action.";
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

```

```

leaf clmgmtLicensePermissionTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file name of the permission
        ticket. This object need to be set only if
        clmgmtLicenseAction is set to processPermissionTicket(4)
        or regenerateLastRehostTicket(5) actions. The permission
        ticket is obtained from Cisco licensing portal to revoke
        a license. The management application must set this object
        to valid value before invoking the action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

```

```

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
    the device need to be backed up. This object need to be set
    only if clmgmtLicenseAction is set to backup(6) and the
    management application must set the value of this object
    to valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

```

```

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
    stop if the action on a license fails. This object is
    applicable only if there are more than one licenses
    involved in an action.";
  smiv2:defval "false";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

```

```

leaf clmgmtLicenseAction {
  type enumeration {

```

```

enum "noOp" {
value "1";
}
enum "install" {
value "2";
}
enum "clear" {
value "3";
}
enum "processPermissionTicket" {
value "4";
}
enum "regenerateLastRehostTicket" {
value "5";
}
enum "backup" {
value "6";
}
enum "generateEULA" {
value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

| Command | Remarks |
|-------------------------------|--|
| ----- | ----- |
| noOp(1) | No operation will be performed. |
| install(2) | Installs the license. |
| clear(3) | Clears the license. |
| processPermissionTicket(4) | |
| Processes thee permission | ticket and generates and exports rehost ticket. |
| regenerateLastRehostTicket(5) | Generates and exports the last generated rehost ticket. |
| backup(6) | Backs up all the licenses installed currently onto a backup store. |

```

generateEULA(7)          Checks whether the licenses
                           in the license file need EULA
                           acceptance and uploads the
                           needed EULA contents to a file.";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of this license action.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to

```

```

defer its license back up action to a later time. This
  object will return a value of 0 if the action is not in
  pending(2) state.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

```

```

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

```

```

leaf clmgmtLicenseActionStorageType {

```

```

type snmpv2-tc:StorageType;
description
"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row.";
smiv2:defval "volatile";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

```

```

leaf clmgmtLicenseActionRowStatus {
type snmpv2-tc:RowStatus;
description
"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtLicenseConfigCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row. It is recommended that the management application
should delete entries in this table after reading
the result. In order to prevent old entries from
clogging the table, entries will be aged out, but an
entry will never be deleted within 5 minutes of
completion";

```

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

```

```

leaf clmgmtLicenseAcceptEULA {
type boolean;
description
"This object indicates whether the End User License Agreement
needed for installing the licenses is accepted.

```

```

true(1) - EULA is read and accepted
false(2) - EULA is not accepted

```

```

Management application should set this object to true(1) when
installing licenses that need EULA acceptance.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

```

```

leaf clmgmtLicenseEULAFile {
type snmp-framework:SnmpAdminString {

```



```

    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
}

```

```

container clmgmtLicenseActionResultTable {
  description
    "This table contains results of license action if the
    license action involves multiple licenses. Entries in this
    table are not created for actions where there is
    only license that is subject of the action. For
    example, if there are 3 licenses in a license file
    when executing license install action, 3 entries will
    be created in this table, one for each license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";
}

```

```

list clmgmtLicenseActionResultEntry {
  key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
  description
    "An entry in clmgmtLicenseActionResultTable. Each entry
    contains result of the action for a single license.
    These entries are created immediately after action
    execution when the action involves multiple licenses.
    These entries get automatically deleted when the
    corresponding entry in clmgmtLicenseActionTable
    is deleted.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";
}

```

```

leaf clmgmtLicenseActionIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-
mib:clmgmtLicenseActionIndex";
  }
}

```

```

leaf clmgmtLicenseNumber {
  type uint32 {

```

```

        range "1.4294967295";
    }
    description
        "This object indicates the sequence number of this license
        in the list of licenses on which the action
is executed.
        For example, if there are 3 licenses in a license file
        when executing license install action, this object will
        have values 1, 2 and 3 respectively as ordered in the
        license file.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}

leaf clmgmtLicenseIndivActionState {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
    description
        "This object indicates the state of action on this
        individual license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
    description
        "This object indicates the reason for action failure on this
        individual license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
    description
        "This table contains information about all the license
        stores allocated on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

    list clmgmtLicenseStoreInfoEntry {
        key "entPhysicalIndex clmgmtLicenseStoreIndex";
        description
            "An entry in clmgmtLicenseStoreInfoTable. Each entry
            contains information about a license store allocated
            on the device";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";
    }
}

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a license store within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

```

```

leaf clmgmtLicenseStoreName {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the name of the license store
    within the device. It is a file in device's local file
    system i.e., either on a local disk or flash or some
    other storage media. For example, the value of this
    object can be 'disk1:lic_store_1.txt' or
    'flash:lic_store_2.txt';
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
}

```

```

leaf clmgmtLicenseStoreTotalSize {
  type uint32;
  units "bytes";
  description
    "This object indicates the total number of bytes that are
    allocated to the license store.";
  smiv2:max-access "read-only";
  smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
}

```

```

leaf clmgmtLicenseStoreSizeRemaining {
  type uint32;
  units "bytes";
  description

```

```

    "This object indicates the number of bytes still remaining
    to be used for new license installations in the license
    store.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
  }
}
}

```

```

container clmgmtLicenseDeviceInfoTable {
  description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist
    only for entities that support licensing. For example,
    if it is a stand alone device and supports licensing,
    then there will be only one entry in this table. If
    it is stackable switch then there will be multiple
    entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

  list
  clmgmtLicenseDeviceInfoEntry {
    key "entPhysicalIndex";
    description
      "An entry in clmgmtLicenseDeviceInfoTable. Each entry
      contains device level licensing information for a device.";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

  leaf clmgmtDefaultLicenseStore {
    type uint32 {
      range "1..4294967295";
    }
    description
      "This object indicates the clmgmtLicenseStoreIndex of
      default store in the device. There will be only one
      default license store per device. If no license store
      is specified during license install, this default license
      store will be used.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
  }
}

```

```

    }
  }
}

container clmgmtLicenseInfoTable {
  description
    "This table contains information about all the licenses
    installed on the device.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

  list clmgmtLicenseInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
    description
      "An entry in clmgmtLicenseInfoTable. Each entry contains
      information about a license installed on the device. This
      entry gets created when a license is installed successfully.
      Management application can not create these entries directly, but
      will do so indirectly by executing license install action.
      Some of these entries may already exist that correspond to
      demo licenses even before management application installs any
      licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type uint32 {
        range "1..4294967295";
      }
      description
        "This object represents the license store that is used for
        storing this license. This object will have the same value
        as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
        of the license store used.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
    }

    leaf clmgmtLicenseIndex {
      type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
      description
        "This object uniquely identifies a license within
        the device.";
    }
  }
}

```

```

    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}

leaf clmgmtLicenseFeatureName {
    type snmp-framework:SnmpAdminString
{
    length "0..128";
}
    description
        "This object indicates the name of the feature that is
        using or can use this license. A license can be used by
        only one feature. Examples of feature name are: 'IPBASE',
        'ADVIPSERVICE'.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

leaf clmgmtLicenseFeatureVersion {
    type snmp-framework:SnmpAdminString {
        length "0..128";
    }
    description
        "This object indicates the version of the feature that is
        using or can use this license. Examples of feature version
        are: '1.0', '2.0'";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

leaf clmgmtLicenseType {
    type enumeration {
        enum "demo" {
            value "1";
        }
        enum "extension"
    {
        value "2";
    }
        enum "gracePeriod" {
            value "3";
        }
        enum "permanent" {
            value "4";
        }
        enum "paidSubscription" {
            value "5";
        }
    }
}

```

```

enum "evaluationSubscription" {
    value "6";
}
enum "extensionSubscription" {
    value "7";
}
enum "evalRightToUse" {
    value "8";
}
enum "rightToUse" {
    value "9";
}
enum "permanentRightToUse" {
    value "10";
}
}

```

description

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses

have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of

licenses available for a UDI.
evalRightToUse(8) - Evaluation Right to use (RTU)
license.
rightToUse(9) - Right to use (RTU) license.
permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of
the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}
```

```
leaf clmgmtLicenseCounted {
  type boolean;
  description
    "This object indicates whether the license is counted
    license.
    true(1) - counted license
    false(2) - uncounted license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}
```

```
leaf clmgmtLicenseValidityPeriod {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period the license is valid for.
    This object is applicable only if clmgmtLicenseType is demo(1),
    or extension(2) or gracePeriod(3) or evalRightToUse(8). The
    object will return
    0 for other license types.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}
```

```
leaf clmgmtLicenseValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before the
    license expires or transitions to rightToUse(9) license. This
    object is applicable only if clmgmtLicenseType is demo(1), or
    extension(2) or gracePeriod(3) or evalRightToUse(8). The object
    will contain 0 for other license types.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}
```



```

}

leaf clmgmtLicenseExpiredPeriod {
  type uint32;
  units "seconds";
  description
    "This object indicates the elapsed time period since the license
    expired. This object is applicable only if clmgmtLicenseType
    is demo(1),
or extension(2) or gracePeriod(3). Also, this
    value of this object will be valid only after the license
    expires. The object will return 0 for other license types
    or before the license expiry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

```

```

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

```

```

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
}

```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

```

leaf clmgmtLicenseStatus {
  type enumeration {
    enum "inactive" {
      value "1";
    }
    enum "notInUse" {
      value "2";
    }
    enum "inUse" {
      value "3";
    }
    enum "expiredInUse" {
      value "4";
    }
    enum "expiredNotInUse" {
      value "5";
    }
    enum "usageCountConsumed" {
      value "6";
    }
  }
  description
    "This object represents status of the license.

```

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4)

- license is expired but still
being held by the feature.
expiredNotInUse(5) - license is expired and not being
held by any feature.
usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

leaf clmgmtLicenseStartDate {
type snmpv2-tc:DateAndTime;
description
"This object indicates the start date for a subscription
license. It is optional for subscription linceses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}

leaf clmgmtLicenseEndDate {
type snmpv2-tc:DateAndTime;
description
"This object indicates the end date for a subscription license.
This object is applicable only when clmgmtLicenseType is
paidSubscription(5), evaluationSubscription(6) or
extensionSubscription (7). The object will contain an octet
string of length 0 when it is not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
type uint32;
units "seconds";
description
"This
object indicates the time period used for the
Right to use (RTU) licenses. This object is applicable for all
RTU licenses.";

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
  }
}
}

```

```

container clmgmtLicensableFeatureTable {
  description
    "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```

```

  list clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex";
    description
      "An entry
in clmgmtLicensableFeatureTable. Each entry represents
  a licensable feature.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

  leaf clmgmtFeatureIndex {
    type uint32 {
      range "1..4294967295";
    }
    description
      "This object uniquely identifies a licensable feature in
      the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
  }

```

```

  leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {
      length "0..128";
    }
  }

```

```

description
  "This object indicates the name of the licensable feature
  in the device. Examples of feature names are: 'IPBASE',
  'ADVIPSERVICE';
smiv2:max-access
"read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
}

leaf clmgmtFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..32";
  }
  description
    "This object indicates the version of the licensable
    feature in the device. Examples of feature versions
    are: '1.0' or '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before
    the feature's license expires or transitions. This object is
    applicable only if clmgmtLicenseType of the license used by
    this feature is demo(1), or extension(2) or gracePeriod(3) or
    evalRightToUse(8).

    The object will contain 0 if
other types of license is used
    or if the feature does not use any license. If the
    feature is using multiple licenses, this period will
    represent the cumulative period remaining from all the
    licenses used by this feature.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

leaf clmgmtFeatureWhatIsCounted {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object represents the entity that is being counted
    by this feature. Examples of entities are IP Phones, number

```

```

    of sessions etc. This object is only applicable for
    features that use counting licenses. For other features,
    this object will return empty string.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

leaf clmgmtFeatureStartDate {

type snmpv2-tc:DateAndTime;
description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license end date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid end date. The end date will
        be the latest of the valid end dates
of all the licenses
        used for this feature. If none of the licenses used for this
        feature have a valid end date then this object will contain an
        octet string of length 0.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
    }

leaf clmgmtFeaturePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This object indicates the license period used for the feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
    }
}
}

```

```

container clmgmtDevCredExportActionTable {
  description
    "A table for triggering device credentials export action.
    Management application must create this entry to trigger the
    export of device credentials from the device to a file.

    Once the request completes, the management application should
    retrieve the values of the objects
    of interest, and then
    delete the entry. In order to prevent old entries from
    clogging the table, entries will be aged out, but an entry
    will never be deleted within 5 minutes of completion.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

list clmgmtDevCredExportActionEntry {
  key "clmgmtDevCredExportActionIndex";
  description
    "An entry for each device credential export action that
    is being executed or was executed recently. The management
    application triggers the export by creating an entry in this
    table. This can be done in the following 2 methods

```

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in

pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

```
leaf clmgmtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgmtDevCredExportActionTable. The management application  
    chooses this value by reading  
    clmgmtNextFreeDevCredExportActionIndex while creating an  
    entry in this table.
```

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";

```
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {  
  type entity-mib:PhysicalIndexOrZero;  
  description  
    "This object represents the entPhysicalIndex of the device  
    for which the device credentials are being retrieved. This  
    object is mainly used in devices where one device is acting  
    as a master and rest of the devices as slaves. The master  
    device is responsible for SNMP communication with the  
    manager. Examples include stackable switches, devices with  
    router processor and line cards.
```

Note: This object need not be set if it is a stand alone device";

smiv2:defval "0";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";

```
}
```

```
leaf clmgmtDevCredTransferProtocol {
```



```

type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
description
  "This object indicates the transfer protocol to be used when
  copying files as specified in the following objects.
  1. clmgmtDevCredExportFile
  .";
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

```

```

leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtDevCredServerAddress object.
    This must be set when clmgmtDevCredTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

  The format of this address depends on the value of the
  clmgmtDevCredServerAddressType object";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object

```

must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

| Command | Remarks |
|---------|---------|
|---------|---------|

| | |
|---------|---------------------------------|
| noOp(1) | No operation will be performed. |
|---------|---------------------------------|

```

getDeviceCredentials(2)    Exports device credentials";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

```

```

leaf clmgmtDevCredCommandState {
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
description
"This object indicates the state of the action that is
executed as a result of setting clmgmtDevCredRowStatus
to active(1).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
type enumeration {
enum "none" {
value "1";
}
enum "unknownError" {
value "2";
}
enum "transferProtocolNotSupported"
{
value "3";
}
enum "fileServerNotReachable" {
value "4";
}
enum "unrecognizedEntPhysicalIndex" {
value "5";
}
enum "invalidFile" {
value "6";
}
}
description
"This object indicates the the reason for device
credentials export operation failure.

```

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row.";

smiv2:defval "volatile";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";

}

leaf clmgmtDevCredRowStatus {

type snmpv2-tc:RowStatus;

description

"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtDevCredCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete
the row.

clmgmtDevCredExportFile is a mandatory object to be
set when creating this entry.";

smiv2:max-access "read-write";

```

        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
    }
}
}
}

```

```

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

```

```

    container object-1 {

```

```

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }
    }

```

```

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }
    }

```

```

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```

```

    container object-2 {

```

```

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
}

```

```

    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureValidityPeriodRemaining {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
  }
}

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
}

```



```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
    {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseMaxUsageCount {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
      }
    }

```

```

  container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

```

```

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-5 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseUsageCountAboutToExceed
  {
    description

```

"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached and after that the device will not allow new entities to make use of this license.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

container object-1 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
```

```
    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
```

```
    leaf clmgmtLicenseIndex {
      type leafref {

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
```

```
    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
```

container object-2 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
```

```

mib:entPhysicalIndex";
    }
}

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }

    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseUsageCountRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
    }
  }
}

```

```

}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref
    {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
    }

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
        }
    }
}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}

notification clmgmtLicenseInstalled {
  description
    "This notification is sent when a license is installed
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
  }
}

```



```

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type

```

```

leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseType {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
}

container
object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}
}
}

```

```

notification clmgmtLicenseCleared {
  description
    "This notification is sent when a license is cleared
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```

```

    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
      }
    }

```

```

  container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path
        "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseRevoked {
    description
      "This notification is sent when a license is revoked
      successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtLicenseStoreUsed {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
      }

      leaf clmgmtLicenseIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";

```

```

    }
}

leaf clmgmtLicenseFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
  }
}

container object-3 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseType {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
  }
}
}

```

```

container object-4 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```



```

    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseEULAAccepted {
    description
      "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtFeatureIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
      }

      leaf clmgmtFeatureName {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
  to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {

```

```

        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

```

```
}
```

```
notification clmgmtLicenseSubscriptionExpiryWarning {
```

```
  description
```

```
    "This notification is sent when a subscription license of a  
    feature is about to expire. This notification will be sent as  
    per the following
```

```
  schedule:
```

```
    Once a week for the last eight weeks
```

```
    Once a day for the last week
```

```
    Once a hour for the last day";
```

```
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";
```

```
  container object-1 {
```

```
    leaf entPhysicalIndex {
```

```
      type leafref {
```

```
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-  
mib:entPhysicalIndex";
```

```
      }
```

```
    }
```

```
    leaf clmgmtFeatureIndex {
```

```
      type leafref {
```

```
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-  
mib:clmgmtFeatureIndex";
```

```
      }
```

```
    }
```

```
    leaf clmgmtFeatureName {
```

```
      type leafref {
```

```
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-  
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-  
mib:clmgmtFeatureName";
```

```
      }
```

```
    }
```

```
  }
```

```
  container object-2 {
```

```
    leaf
```

```
  entPhysicalIndex {
```

```
    type leafref {
```

```
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-  
mib:entPhysicalIndex";
```

```
    }
```

```
  }
```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf
    clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

  notification clmgmtLicenseSubscriptionExtExpiryWarning {
    description
  }

```

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

container object-1 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
```

container object-2 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
```

```

    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

  notification clmgmtLicenseSubscriptionExpired {
    description
      "This notification will be sent after a subscription license
      of a feature completely expires. It will be sent once a day
      after the license has completely expired";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

```



```

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

notification clmgmtLicenseEvalRTUTransitionWarning {
    description
        "This notification is sent when Evaluation to Right to use (RTU)
        license transition is about to happen. The first notification
        will be sent 10 days before the transition and second
        notification will be sent 5 days before the transition.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }

  notification clmgmtLicenseEvalRTUTransition {
    description
      "This notification is sent, when a feature license transitions
      from a evaluation to a
      Right to use (RTU) license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

    container object-1 {

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf clmgmtFeatureIndex {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
      }

      leaf clmgmtFeatureName {
        type leafref {
          path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

```

```

smiv2:alias "clmgmtLicenseInformation" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}
package license

import (
    "errors"
    alarmUtil "github3.cisco.com/ROBOT/infra-utils/golang/app-skeleton/alarms"

    hiAlarms "github3.cisco.com/ROBOT/pulse/alarms"
    alarmsPb "github3.cisco.com/ROBOT/robot-api/golang/alarms"
    "go.uber.org/atomic"
    "os"
    "sync"
    "time"

    "fmt"

    "github3.cisco.com/ROBOT/infra-utils/golang/messaging"
    "github3.cisco.com/ROBOT/infra-utils/golang/robotnats"
    "github3.cisco.com/ROBOT/pulse/alarms"
    "github3.cisco.com/ROBOT/pulse/config"
    "github3.cisco.com/ROBOT/pulse/log"
    "github3.cisco.com/ROBOT/pulse/util"
    "github3.cisco.com/ROBOT/robot-api/golang/cw_clms"
    "golang.org/x/net/context"

```

```

)

// Smart License Constants
const (
    DEFAULT_CLMS_PRODUCT_UUID = "2970976f-2cbc-4dc2-9293-a96074abc91d"
    DEFAULT_CLMS_SOFTWARE_ID = "regid.2019-11.com.cisco.CAHISW,1.0_1bb005c9-b4e7-41c4-bf49-
65ff6643a44e"
    DEFAULT_CNC_SOFTWARE_ID = "regid.2022-11.com.cisco.CNC,1.0_6a3c6976-76d7-4604-8be5-
ef8d0221612a"
    DEFAULT_CLMS_PRODUCT_ID = "CAHISW"
    DEFAULT_CLMS_PRODUCT_NAME = "Health
Insights and Change Automation"

    DEFAULT_CLMS_TOPIC = "robot.clms.v_0_1_0.json"
    DEFAULT_CLMS_KAFKA_TOPIC = "robot.clms.reply.v_0_1_0.json"

    DEFAULT_CLMS_ENTITLEMENT_REQ_CTX = "post./v1/request_entitlement"

    DEFAULT_CLMS_ENTITLEMENT_TAG_RTM = "regid.2019-
11.com.cisco.NTWAUTO_RTM,1.0_9659e789-15e7-4db3-8665-7f06e5f08857"
    DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_NAME = "NTWAUTO_RTM"
    DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_VER = "1.0"

    DEFAULT_CLMS_ENTITLEMENT_TAG_RTU = "regid.2023-01.com.cisco.CNC_CAHI_RTU,1.0_92a3f791-
2a2f-4413-994d-70640acddb7b"
    DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_NAME = "CNC_CAHI_RTU"
    DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_VER = "1.0"

    DEFAULT_CLMS_SEND_INTERVAL = 2 * time.Hour
    DEFAULT_CLMS_KAFKA_CONSUMER_GROUP_PREFIX = "crosswork.hi.clms"
    CLMS_LICENSE_STATE = "regid.2019-11.com.cisco.CAHISW,1.0_1bb005c9-b4e7-41c4-bf49-
65ff6643a44e"

    DEFAULT_RTU_ENTITLEMENT_STATE = cw_clms.EntitlementStatus_IN_COMPLIANCE
    CNC_PRODUCT_ID
        = "CNC"
)

// set of errors returned by this package
var (
    ErrNatsConnNilPointer = errors.New("Nil NATS Connection")
    ErrEmptyResponse = errors.New("Received Empty response")
    ErrClmsConfigFail = errors.New("Error reading CLMS configuration")

    //ErrClmsConfigReadFail is raised when package fails to read configuration from conf file
    ErrClmsConfigReadFail = errors.New("error in reading CLMS configuration")

    //ErrClmsEmptyClmsResp is raised when NCA received empty response to call from clms

```

```

ErrClmsEmptyClmsResp = errors.New("received empty response from CLMS")

//ErrEntitlementRequest is raised when clms receives un acceptable entitlement report from orchestrator
ErrEntitlementRequest = errors.New("error in entitlement reported")

//ErrNatsNilPointer is raised when nats connection in use is nil
ErrNatsNilPointer = errors.New("nATS Connection is nil")

//ErrDbNilPointer is raised when db connection in use is nil
ErrDbNilPointer = errors.New("db Connection
is nil")

//ErrEmptyClientID is raised when client ID received is empty
ErrEmptyClientID = errors.New("empty client ID received")

//ErrDbNilPointer is raised when db connection in use is nil
ErrClmsClientNotCreated = errors.New("CLMS client not created yet")
unacceptableRTUStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{ }{
    cw_clms.EntitlementStatus_EVALUATION_EXPIRED: { },
    cw_clms.EntitlementStatus_NOT_AUTHORIZED:    { },
}
rtuAlarmStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{ }{
    cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED: { },
}
rtmAlarmStatuses = map[cw_clms.EntitlementStatus_SentryEntitlementEnforceMode]struct{ }{
    cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED: { },
    cw_clms.EntitlementStatus_EVALUATION_EXPIRED:        { },
}
)

//var expired bool
//var consumerGroup = `hi.clms.`
//var kafka_license_data = make(chan *sarama.ConsumerMessage, 1)

type LicenseClient struct {
    mu
    sync.RWMutex
    Configuration      config.ConfigCLMS
    NatsConn            *robotnats.NatsStreamConn
    ClientID            string
    licenseAuthStatus   cw_clms.SentryLicenseAuthStatus
    rtmLicenseStatus    cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    rtuLicenseStatus    cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
    clmsKafkaTopic      string
    consumerGroup       string
    clmsKafkaSubscription robotnats.RobotNatsSubscription
    updateError         *atomic.Bool
    isLabLicensing      *atomic.Bool

```

```

}

var clmsCtx *LicenseClient
var localRtmUpdaterMutex sync.RWMutex

// CreateClient method will initialize the client based on passed parameters
func GetClient() (*LicenseClient, error) {
    if clmsCtx != nil {
        return clmsCtx, nil
    } else {
        return nil, ErrClmsClientNotCreated
    }
}

// CreateClient method will initialize the client based on passed parameters
func CreateClient(
    config config.ConfigCLMS,
    natsConn *robotnats.NatsStreamConn,
    appName string,
)
(*LicenseClient, error) {

    var err error
    //Already exists so no need to create it again ?
    if clmsCtx != nil {
        return clmsCtx, nil
    }
    if natsConn == nil {
        err = ErrNatsNilPointer
        return nil, err
    }

    if appName == `` {
        err = ErrEmptyClientID
        return nil, err
    }

    if config.ClmsSoftwareId == `` {
        config.ClmsSoftwareId = DEFAULT_CLMS_SOFTWARE_ID
    }

    if config.CncSoftwareID == `` {
        config.CncSoftwareID = DEFAULT_CNC_SOFTWARE_ID
    }

    if config.ClmsProductId == `` {
        config.ClmsProductId = DEFAULT_CLMS_PRODUCT_ID
    }
}

```



```

if config.ClsmsProductDisplayName == `` {
    config.ClsmsProductDisplayName = DEFAULT_CLMS_PRODUCT_NAME
}

if config.EntitlementRequestContext == `` {
    config.EntitlementRequestContext = DEFAULT_CLMS_ENTITLEMENT_REQ_CTX
}

if config.EntitlementRtmTag == `` {
    config.EntitlementRtmTag = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM
}
if config.EntitlementRtmName == `` {
    config.EntitlementRtmName = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_NAME
}
if config.EntitlementRtmVersion
== `` {
    config.EntitlementRtmVersion = DEFAULT_CLMS_ENTITLEMENT_TAG_RTM_VER
}

if config.EntitlementRtuTag == `` {
    config.EntitlementRtuTag = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU
}
if config.EntitlementRtuName == `` {
    config.EntitlementRtuName = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_NAME
}
if config.EntitlementRtuVersion == `` {
    config.EntitlementRtuVersion = DEFAULT_CLMS_ENTITLEMENT_TAG_RTU_VER
}
instanceId, err := util.GetInstanceID()
if err != nil {
    log.Errorf(log.Fields{"error": err}, "error in getting instance id.")
}
clsmsConsumerGroup := fmt.Sprintf("%v_%v", DEFAULT_CLMS_KAFKA_CONSUMER_GROUP_PREFIX,
instanceId)

client := LicenseClient{
    Configuration:  config,
    NatsConn:      natsConn,
    ClientID:      appName,
    licenseAuthStatus: cw_clms.SentryLicenseAuthStatus_UN_IDENTIFIED,
    clsmsKafkaTopic:  DEFAULT_CLMS_KAFKA_TOPIC,
    consumerGroup:    clsmsConsumerGroup,
    updateError:      atomic.NewBool(false),
    isLabLicensing:   atomic.NewBool(false),
}
//Save

```

```

a reference in the module for reference later
clmsCtx = &client
return &client, err
}

//func (licenseClient *LicenseClient) HandleMessage(msg *sarama.ConsumerMessage) {
// licenseClient.kafkaLicenseData <- msg
//}

func handleCNCLicenseNotif(ctx context.Context,
notification *cw_clms.SentryLicenseState) {
if notification != nil {
if clmsCtx == nil {
log.Error("CLMS client is not created.Not processing clms license state change notification.")
return
} else {
clmsCtx.setRTUStatus(cw_clms.EntitlementStatus_IN_COMPLIANCE)
clmsCtx.setRTMStatus(cw_clms.EntitlementStatus_IN_COMPLIANCE)
}
} else {
log.Errorf(log.Fields{"notification": notification}, "received empty notification from CLMS")
}
}

// Handle CLMS License State notification
func handleCLMSLicenseStateChange(ctx context.Context, notification *cw_clms.SentryLicenseState) {
log.Infof(log.Fields{"notification": notification}, "CLMS: handle license state change")
if notification != nil {
if
clmsCtx == nil {
log.Error("CLMS client is not created.Not processing clms license state change notification.")
return
} else if notification.RegistrationStatus == cw_clms.SentryLicenseState_REGISTERED {
entitlementCount := 0
for _, entitlement := range notification.GetEntitlements() {
if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtuTag {
clmsCtx.setRTUStatus(entitlement.GetStatus())
entitlementCount++
} else if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtmTag {
clmsCtx.setRTMStatus(entitlement.GetStatus())
entitlementCount++
}
}
if entitlementCount == 2 {
break
}
}
clmsCtx.updateLabLicenseState()
} else {

```

```

//fetching the license state from clms upon receiving the update since we are not sure if
// CNC is enabled or individual app ( CAHISW ) is enabled
UpdateLicenseState()
}

reconcileRTUAndRTM()
handleAlarmOnLicenseState()
} else {
log.Errorfmt(log.Fields{"notification":
notification}, "received empty notification from CLMS")
alarms.WarningSystemEvent(
    true,
    alarms.InfoLicenseMgr,
    "LicenseMgr", alarms.ObjDscLicenseMgr,
    "Received empty notification from CLMS",
)
}
}

func (client *LicenseClient) StartClmsStateConsumer() (sub robotnats.RobotNatsSubscription, err error) {
var kafka_topic string
var subscription robotnats.RobotNatsSubscription

natsC := client.NatsConn
offsetCfg := *natsC.KafkaCfg.ConsumerCfg
instId := util.GetManagerInstID()

// topic will be from
if client.clmsKafkaTopic == "" {
kafka_topic = DEFAULT_CLMS_KAFKA_TOPIC
} else {
kafka_topic = client.clmsKafkaTopic
}

var KAFKA_CLMS_HANDLERS []messaging.MessageContextIdHandler =
[]messaging.MessageContextIdHandler{
{
Type:      messaging.MESSAGE_CONTEXTID_HANDLER_TYPE_SUBSCRIBE,
ContextIDPrefix: client.Configuration.ClmsSoftwareId,
GetArgumentContainer: func() interface{} { {
return &cw_clms.SentryLicenseState{ }
}},
Handle: handleCLMSLicenseStateChange,
},
//
ROBOT-23784 CNC license 7.0
{
Type:      messaging.MESSAGE_CONTEXTID_HANDLER_TYPE_SUBSCRIBE,

```

```

ContextIDPrefix: client.Configuration.CncSoftwareID,
GetArgumentContainer: func() interface{} {
    return &cw_clms.SentryLicenseState{}
},
Handle: handleCNCLicenseNotif,
},
}

instanceId, err := util.GetInstanceID()
if err != nil {
    log.Errorf(log.Fields{"error": err}, "error in getting instance id.")
}
clmsConsumerGroup := fmt.Sprintf("%v_%v", DEFAULT_CLMS_KFAFKA_CONSUMER_GROUP_PREFIX,
instanceId)

subscription, err = natsC.Serve(instId,
kafka_topic,
clmsConsumerGroup,
KAFKA_CLMS_HANDLERS,
robotnats.RobotNatsServeWithKafkaConsumerConfig(&offsetCfg))
if err != nil {
    client.clmsKafkaSubscription = subscription
}
return subscription, err
}

func (client *LicenseClient) RequestRTM(count uint32, softwareId string) (err error) {

    natC := client.NatsConn
    log.Infof(log.Fields{"RTM": count, "softwareId": softwareId}, "Starting
Entitlement RTM update to CLMS")

    params := client.Configuration

    if err != nil {
        log.Errorf(log.Fields{"error": ": ErrClmsConfigFail}, "CLMS Entitlement RTM update failed")
        return err
    }

    request := &cw_clms.SentryEntitlement{}
    request.SoftwareIdTag = softwareId
    request.EntitlementTag = params.EntitlementRtmTag
    request.Version = params.EntitlementRtmVersion
    request.Count = count

    clientID := util.GetManagerInstID()
    clmsTopic := params.ClmsTopic
    context := params.EntitlementRequestContext

```

```

retries := 3
for i := 0; i < retries; i++ {

    response := &cw_clms.SentryNatsReply{} //nolint:all

    err = natC.RequestSync(
        clientID,
        clmsTopic,
        context,
        request,
        response,
        20*1000*time.Millisecond,
    )
    if err != nil {
        log.Errorfmt(log.Fields{ "error": err },
            "CLMS send entitlement HI RTM update Failed - NATS error")
        continue
    }

    if response == nil { //nolint:all
        log.Errorfmt(log.Fields{ "error": ErrEmptyResponse },
            "CLMS Entitlement HI
RTM update failed retrying...")
        continue
    }

    //capture license status and topic info in response
    if response.GetResult() == cw_clms.Result_ERROR || response.GetResult() == cw_clms.Result_REJECTED {
        log.Errorfmt(log.Fields{ "error": err },
            "CLMS send entitlement HI RTM update Failed CLMS: result not accepted")
        err = errors.New(response.GetMessage())
    } else {

        if response.GetLicenseStatus() == cw_clms.SentryLicenseAuthStatus_UN_CONFIGURED {
            err = errors.New("Error: license state unexpected")
            continue
        }
        clmsCtx.setRTMStatus(cw_clms.EntitlementStatus_SentryEntitlementEnforceMode(response.GetEntitlementStatus
        ()))
    }
    break
}

if err != nil {
    log.Errorfmt(log.Fields{ "Error": err },
        fmt.Sprintf("Failed to update entitlement HI RTM to CLMS after %d retries", retries))
    alarms.MajorSystemEvent(

```

```

    false,
    alarms.InfoLicenseMgr,
    "LicenseMgr", alarms.ObjDscLicenseMgr,
    fmt.Sprintf("Failed to update entitlement HI RTM to CLMS after %d retries", retries),
)
client.updateError.Store(true)
}
else if client.updateError.Load() {
    log.Info("update entitlement HI RTM to CLMS successful")
    client.updateError.Store(false)
}

return err
}

func (client *LicenseClient) RequestRTU(count uint32, softwareId string) (err error) {

    natC := client.NatsConn
    log.Infof(log.Fields{"RTU": count, "SoftwareId": softwareId}, "Starting Entitlement RTU update to CLMS")

    params := client.Configuration

    request := &cw_clms.SentryEntitlement{ }
    request.SoftwareIdTag = softwareId
    request.EntitlementTag = params.EntitlementRtuTag
    request.Version = params.EntitlementRtuVersion
    request.Count = count

    clientID := util.GetManagerInstID()
    clmsTopic := params.ClmsTopic
    context := params.EntitlementRequestContext

    retries := 3
    for i := 0; i < retries; i++ {

        response := &cw_clms.SentryNatsReply{ } //nolint:all

        err = natC.RequestSync(
            clientID,
            clmsTopic,
            context,
            request,
            response,
            20*1000*time.Millisecond,
        )
        if err
        != nil {
            log.Errorf(log.Fields{"error": ": err"}, "CLMS send entitlement HI RTU update Failed - NATS error")

```

```

    continue
}

if response == nil { //nolint:all
    log.Errorfmt(log.Fields{"error: ": ErrEmptyResponse},
        "CLMS Entitlement HI RTU update failed retrying...")
    continue
}

//capture license status and topic info in response
if response.GetResult() == cw_clms.Result_ERROR || response.GetResult() == cw_clms.Result_REJECTED {
    log.Errorfmt(log.Fields{"error": err},
        "CLMS send entitlement HI RTU update Failed CLMS: result not accepted")
    err = errors.New(response.GetMessage())
} else {
    if response.GetLicenseStatus() == cw_clms.SentryLicenseAuthStatus_UN_CONFIGURED {
        err = errors.New("Error: license state unexpected")
        continue
    }
}
break
}

if err != nil {
    log.Errorfmt(log.Fields{"Error": err},
        fmt.Sprintf("Failed to update entitlement HI RTU to CLMS after %d retries", retries))
    alarms.MajorSystemEvent(
        false,
        alarms.InfoLicenseMgr,
        "LicenseMgr",
        alarms.ObjDscLicenseMgr,
        fmt.Sprintf("Failed to update entitlement HI RTU to CLMS after %d retries", retries),
    )
    client.updateError.Store(true)
} else if client.updateError.Load() {
    log.Info("update entitlement HI RTU to CLMS successful")
    client.updateError.Store(false)
}

return err
}

// Check RTM and RTU entitlement states and returns over all license state .
func IsLicenseExpired() (expired bool, licenseAuthStatus string) {
    rtuExpired := false
    var licenseStatus string
    if clmsCtx != nil {
        if _, ok := unacceptableRTUStatuses[clmsCtx.getRTUStatus()]; ok {

```

```

    rtuExpired = true
    licenseStatus = clmsCtx.getRTUStatus().String()
}
} else {
log.Infofmt(log.Fields{"CLMS Client": nil},
    "CLMS: Client not setup assuming licnese expired")
}
if rtuExpired {
log.Infofmt(log.Fields{"rtmLicenseStatus": clmsCtx.getRTMStatus(),
    "rtuLicenseStatus": clmsCtx.getRTUStatus()}, "In License check")
// If lab licensing is enabled, any state should
be compliant
return !clmsCtx.isLabLicensing.Load(), licenseStatus
}
return false, licenseStatus
}

// Gets the RTM and RTU entitlement status from CLMS and updates inmemory variables
func UpdateLicenseState() {
    //fetching the license state with product id as CAHISW
    //if CNC is enabled, then CLMS will return CNC info, otherwise CAHI info
    //Irrespective of that we can set the state
    response, err := getLicenseState()
    if err != nil || response == nil {
        return
    }
    entitlementCount := 0
    productId := response.ProductId
    for _, entitlement := range response.GetEntitlements() {
        if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtuTag {
            // ROBOT-23784 CNC license
            // RTU applicable only for CNC
            if productId == CNC_PRODUCT_ID {
                clmsCtx.setRTUStatus(entitlement.GetStatus())
            }
            clmsCtx.setRTUStatus(entitlement.GetStatus())
            entitlementCount++
        } else if entitlement.GetTag() == clmsCtx.Configuration.EntitlementRtmTag {
            clmsCtx.setRTMStatus(entitlement.GetStatus())
            entitlementCount++
        }
    }
    if
    entitlementCount == 2 {
        break
    }
}
clmsCtx.updateLabLicenseState()
}

```



```

// Calls CLMS get License status API and fetches the RTU and RTM entitlement status.
func getLicenseState() (*cw_clms.LicenseStatusResponse, error) {
    natsC := clmsCtx.NatsConn
    if natsC == nil {
        log.Error("NATs connection null, unable to fetch license state from CLMS")
        return nil, errors.New("no nats connection, unable to fetch license state from clms")
    }
    params := clmsCtx.Configuration
    request := &cw_clms.ProductID{ }
    request.ProductId = params.ClmsProductId

    response := &cw_clms.LicenseStatusResponse{ } //nolint:all
    clientID := util.GetManagerInstID()
    retries := 3
    var err error
    for i := 0; i < retries; i++ {
        err = natsC.RequestSync(
            clientID,
            params.ClmsTopic,
            "get./v1/license-status",
            request,
            response,
            30*1000*time.Millisecond,
        )

        if err != nil {
            log.Errorf(log.Fields{ "error": err }, "Error occurred during get license status
            call to CLMS")
            continue
        }
        if response == nil { //nolint:all
            log.Errorf(log.Fields{ "error": ": ErrEmptyResponse }, "Get license state call to CLMS failed. Retrying.")
            continue
        }
        if response.GetResult() == cw_clms.Result_ACCEPTED {
            log.Infof(log.Fields{ "response": response, "message": response.GetMessage() },
                "Successfully fetched license state from CLMS")
            return response, nil
        }
        return nil, fmt.Errorf(fmt.Sprintf("Error response received from CLMS during for get license call after %d retries",
        retries))
    }
    if err != nil {
        return nil, fmt.Errorf(fmt.Sprintf("Failed to get license state from CLMS after %d retries", retries))
    }
    return nil, fmt.Errorf(fmt.Sprintf("Failed to get response from CLMS for get license state after %d retries", retries))
}

```

```

}

// Calls CLMS get lab-License status API and fetch whether user using lab licensing or not.
func getLabLicensingState() (bool, error) {
    natC := clmsCtx.NatsConn
    if natC == nil {
        log.Error("NATs connection
        null, unable to fetch lab-license state from CLMS")
        return false, errors.New("no nats connection, unable to fetch license state from clms")
    }
    params := clmsCtx.Configuration
    request := &cw_clms.ProductID{ }
    request.ProductId = params.ClmsProductId

    response := &cw_clms.IsLabEnabledResponse{ } //nolint:all
    clientID := util.GetManagerInstID()
    retries := 3
    var err error
    for i := 0; i < retries; i++ {
        err = natC.RequestSync(
            clientID,
            params.ClmsTopic,
            "get./v1/lab-licensing",
            request,
            response,
            30*1000*time.Millisecond,
        )

        if err != nil {
            log.Errorf(log.Fields{ "error": err }, "Error occurred during get lab-licensing status call to CLMS")
            continue
        }
        if response == nil { //nolint:all
            log.Errorf(log.Fields{ "error": ": ErrEmptyResponse },
            "Get lab-licensing state call to CLMS failed. Retrying." )
            continue
        }
        if response.GetResult() == cw_clms.Result_ACCEPTED {
            log.Infof(log.Fields{
                "response": response,
            }, "Successfully
            fetched lab-license state from CLMS")

            return response.GetStatus(), nil
        }
        return false, fmt.Errorf(
            fmt.Sprintf("Error response received from CLMS during for get lab-license call after %d retries", retries))
    }
}

```

```

if err != nil {
    return false, fmt.Errorf(
        fmt.Sprintf("Failed to get lab-license state from CLMS after %d retries", retries))
    }
return false, fmt.Errorf(
    fmt.Sprintf("Failed to get response from CLMS for get lab-license state after %d retries", retries))
}
func (client *LicenseClient) setRTUStatus(rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode) {
    client.mu.Lock()
    log.DebugFmt(log.Fields{"RTU Entitlement status:": rtuStatus}, "Updating RTU entitlement status")
    client.rtuLicenseStatus = rtuStatus
    client.mu.Unlock()
}
func (client *LicenseClient) setRTMStatus(rtmStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode) {
    {
        client.mu.Lock()
        log.DebugFmt(log.Fields{"RTM Entitlement status:": rtmStatus}, "Updating RTU entitlement status")
        client.rtmLicenseStatus
        = rtmStatus
        client.mu.Unlock()
    }
}
func (client *LicenseClient) getRTUStatus() cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
    client.mu.RLock()
    defer client.mu.RUnlock()
    return client.rtuLicenseStatus
}
func (client *LicenseClient) getRTMStatus() cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
    client.mu.RLock()
    defer client.mu.RUnlock()
    return client.rtmLicenseStatus
}

// In case of RTU license expired ,fetches lab licensing state from CLMS and update inmemory variable.
func (client *LicenseClient) updateLabLicenseState() {
    var rtuExpired bool
    if _, ok := unacceptableRTUStatuses[clmsCtx.getRTUStatus()]; ok {
        rtuExpired = true
    }
    if rtuExpired {
        isLabLicensing, err := getLabLicensingState()
        if err == nil {
            clmsCtx.isLabLicensing.Store(isLabLicensing)
        }
    }
}

func (client *LicenseClient) updateRtmCounter() {
    var rtm_count uint32

```

```

var err error
// retry loop for 3 times, 10 seconds apart
for i := 1; i <= 3; i++ {
    rtm_count,
err = util.GetDistinctDeviceUsage()
    if err == nil {
        break
    }
    time.Sleep(time.Duration(i) * 10 * time.Second)
}
if err != nil {
    log.Errorf(log.Fields{"error": err}, "Failed to get distinct device usage count for RTM")
    return
}
/* CSCwn56583 - Removal of Component-based licensing 7.1
err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.ClmsSoftwareId)
if err != nil {
    log.Errorf(log.Fields{"error": err},
        "Send CLMS entitlement RTM failed for CAHI license.")
} else {
    log.Infof(log.Fields{"rtm_count": rtm_count, "SoftwareId": clmsCtx.Configuration.ClmsSoftwareId}, "rtm count
sent to CLMS")
}
*/
// ROBOT-23784 CNC Smart license
err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.CncSoftwareID)
if err != nil {
    log.Errorf(log.Fields{"error": err},
        "Send CLMS entitlement RTM failed for CNC license.")
} else {
    log.Infof(log.Fields{"rtm_count": rtm_count, "SoftwareId": clmsCtx.Configuration.CncSoftwareID}, "rtm count
sent to CLMS")
}

}

func
(client *LicenseClient) StartPeriodicSync(ctx context.Context) {
    // send the rtm count to clms at the start up
    client.updateRtmCounter()
    // add a 2 hour timer to sync the license state or done by the user

    ticker := time.NewTicker(DEFAULT_CLMS_SEND_INTERVAL)
    defer ticker.Stop()
    for {
        select {
        case <-ticker.C:
            client.updateRtmCounter()

```

```

case <-ctx.Done():
    return
}
}
}

// Raise alarms in case either of RTU and RTM are in invalid state.
func handleAlarmOnLicenseState() {
    var err error
    if clmsCtx != nil {
        instanceID := os.Getenv("HOSTNAME")
        if instanceID == "" {
            instanceID = "HI"
        }
        if _, ok := rtuAlarmStatuses[clmsCtx.getRTUStatus()]; ok {
            _err := alarmUtil.Alarms.RaiseEvent(
                true, alarmsPb.Category_System, alarmsPb.Severity_Critical,
                hiAlarms.ErrLicenseMgr.Value(),
                "ErrLicenseMgr", hiAlarms.HIAalarmStartup.Value(),
                "RTU entitlement state",
                util.APPNAME, instanceID, "Invalid RTU entitlement state:"+clmsCtx.getRTUStatus().String(),
            )
            if
            _err != nil {
                log.Errorfmt(log.Fields{"err": err, "send_error": _err}, "failed to send alarms event")
            }
        } else {
            alarmUtil.Alarms.Clear(
                alarmsPb.Category_System, hiAlarms.ErrLicenseMgr.Value(),
                "ErrLicenseMgr", hiAlarms.HIAalarmStartup.Value(),
                "RTU entitlement state",
                util.APPNAME, instanceID, "Valid RTU entitlement state:"+clmsCtx.getRTUStatus().String(),
            )
        }
        if _, ok := rtmAlarmStatuses[clmsCtx.getRTMStatus()]; ok {
            _err := alarmUtil.Alarms.RaiseEvent(
                true, alarmsPb.Category_System, alarmsPb.Severity_Critical,
                hiAlarms.ErrLicenseMgr.Value(),
                "ErrLicenseMgr", hiAlarms.HIAalarmStartup.Value(),
                "RTM entitlement state",
                util.APPNAME, instanceID, "Invalid RTM entitlement state:"+clmsCtx.getRTMStatus().String(),
            )
            if _err != nil {
                log.Errorfmt(log.Fields{"err": err, "send_error": _err}, "failed to send alarms event")
            }
        } else {
            alarmUtil.Alarms.Clear(

```

```

alarmsPb.Category_System, hiAlarms.ErrLicenseMgr.Value(),
"ErrLicenseMgr",
hiAlarms.HIAlarmStartup.Value(),
"RTM entitlement state",
util.APPNAME, instanceID, "Valid RTM entitlement state:"+clmsCtx.getRTMStatus().String(),
)
}
}
}

```

// Reconciliation of RTU and RTM count in case of CLMS went down and came up.

```

func reconcileRTUAndRTM() {
reportRTMCountToClms()
if clmsCtx != nil {
// ROBOT-23784 Smart CNC license
err := clmsCtx.RequestRTU(1, clmsCtx.Configuration.CncSoftwareID)
if err != nil {
log.Errorf(log.Fields{"err": err}, "failed to send RTU count to CLMS.")
}
// CSCwn56583 - Removal of Component-based licensing 7.1
/*
err = clmsCtx.RequestRTU(1, clmsCtx.Configuration.ClmsSoftwareId)
if err != nil {
log.Errorf(log.Fields{"err": err}, "failed to send RTU count to CLMS.")
}
*/
}
}

```

// Sends RTM count to CLMS.

```

func reportRTMCountToClms() {
var rtm_count uint32
rtm_count, err := util.GetDistinctDeviceUsage()
if err != nil {
log.Errorf(log.Fields{"error":
err},
"report RTM count to Clms failed to read RTM")
return
}
if clmsCtx != nil {
// CSCwn56583 - Removal of Component-based licensing 7.1
/*
err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.ClmsSoftwareId)
if err != nil {
log.Errorf(log.Fields{"error": err},
"Send CLMS entitlement RTM failed for CAHI license.")
} */
// ROBOT-23784 CNC Smart license

```

```

err = clmsCtx.RequestRTM(rtm_count, clmsCtx.Configuration.CncSoftwareID)
if err != nil {
    log.Errorf(log.Fields{ "error": err },
        "Send CLMS entitlement RTM failed for CNC license.")
}
log.Debugf(log.Fields{ "rtm_count": rtm_count }, "Send CLMS entitlements RTM, Success")
} else {
    log.Error("report RTM count to Clms failed since clms client not ready")
}
}
}

```

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The icons contained in this solid icons folder were originally created by [IconScout](<https://github.com/Iconscout/unicons>)

aliases:

- ../admin/view-server-settings/
- ../admin/view-server-stats/
- view-server/
- view-server/view-server-settings/
- view-server/view-server-stats/

description: How to view server settings in the Grafana UI

keywords:

- grafana
- configuration
- server
- settings

labels:

products:

- cloud
- enterprise

title: View server statistics and license

weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.

For more information about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
 - Total admins 1
- ```

/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 * smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
 *
 * Do not edit. Edit the source file instead!

```

\*/

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {

 namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
 prefix "cisco-image-license-mgmt-mib";

 import ENTITY-MIB {
 prefix "entity-mib";
 }

 import SNMP-FRAMEWORK-MIB {
 prefix "snmp-framework";
 }

 import ietf-yang-smiv2 {
 prefix "smiv2";
 }

 organization
 "Cisco Systems Inc.";

 contact
 "Cisco Systems
 Customer Service
 Postal: 170 W Tasman Drive
 San Jose, CA 95134
 USA
 Tel: +1 800 553 -NETS
 E-mail: cs-snmp@cisco.com";

 description
 "The MIB module for managing the running image level
 of a Cisco device. Cisco's licensing mechanism provides
 flexibility to run a device on a chosen image
 level.
 This mechanism is referred to as image level licensing.
 Image level licensing leverages the universal image
 based licensing solution.

 The image level licensing mechanism works as follows -

 A universal image that contains all levels of software
 packages is loaded on to the device. At boot time, the
 device determines the highest level of license and brings
 up the appropriate software features or subsystems.
 The user can configure the image level with which the
 device has to boot. The system will verify whether the
```

appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```

revision 2007-10-16 {
 description
 "Initial version of this MIB module.";
}

```

```

typedef BootImageLevel {
 type binary {
 length "0..255";
 }
 description
 "This textual convention is used to define
 the image level.

 If the device is running at advipservices
 image level, then the boot image level will
 be 'advipservices.'.";
}

```

```

typedef LicenseNameList
{
 type binary {
 length "0..255";
 }
 description
 "This textual convention is used to define
 the list of license names. If multiple licenses
 are present then this string will contain all
 the licenses seperated by the ',' character.

 If the license required to run a device at
 advipservices image level is advipservices and
 advsecurity, then the license name list will be
 'advipservices,advsecurity.'.";
}

```

```

container CISCO-IMAGE-LICENSE-MGMT-MIB {
 config false;

```

```

 container ciscoImageLicenseMgmtMIBObjects {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1";

```

```

 leaf cilmEULAAccepted {
 type boolean;
 description
 "This object when set to TRUE means that the user has
 accepted the END USER LICENSE AGREEMENT. This object
 has to be set to TRUE by the user before using the

```



```

 objects in the cilmBootImageLevelTable to configure
 the license.";
 smiv2:defval
 "false";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
}
}

```

```

container cilmNotifCntl {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

```

```

 leaf cilmImageLevelChangedNotif {
 type boolean;
 description
 "Specify whether or not a notification should be
 generated on the detection of change in next boot
 image level.

```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

```

reference
 "See also RFC3413 for explanation that notifications
 are under the ultimate control of the MIB module in
 this document.";
 smiv2:defval "false";
 smiv2:max-access "read-write";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

```

```

container cilmBootImageLevelTable {
 description
 "A table that contains the configuration information of
 current and next boot image level. This table contains
 entries for each software module running in an image
 loaded in the device. The software module is identified by
 cilmModuleName and the device is identified by
 entPhysicalIndex.";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

```

```

 list cilmBootImageLevelEntry {
 key "entPhysicalIndex cilmModuleName";
 description
 "An entry in the table for each module containing the

```

list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```
leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}
```

```
leaf cilmModuleName {
 type snmp-framework:SnmpAdminString;
 description
 "This object is used as one of the two indices in
 cilmBootImageLevelTable. This object indicates the module
 name of the software package. There can be multiple
 modules in an image performing specific functionality.
 For example, in a wireless image there can be two modules
 - a base image module and a wireless module.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}
```

```
leaf cilmCurrentImageLevel {
 type cisco-image-license-mgmt-mib:BootImageLevel;
 description
 "This object indicates the current image level that
 the module is running.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}
```

```
leaf cilmConfiguredBootImageLevel {
 type cisco-image-license-mgmt-mib:BootImageLevel;
 description
 "This object indicates the configured image level
 of the module for the next boot.
```

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by `cilmNextBootImageLevel` which is determined based on the license availability.";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}
```

```
leaf cilmNextBootImageLevel {
 type
 cisco-image-license-mgmt-mib:BootImageLevel;
 description
 "This object indicates the next boot image level. The
 next boot image level can be different from configured
 level. The next boot image level is determined based
 on the availability of required license.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}
```

```
leaf cilmCurrentLicenseStoreIndex {
 type uint32;
 description
 "This object indicates the license store index where the
 currently used license is stored. This object has the same
 value as clmgmtLicenseStoreIndex object and uniquely
 identifies an entry in clmgmtLicenseStoreInfoTable in
 CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}
```

```
leaf cilmCurrentLicenseIndex {
 type uint32;
 description
 "This object indicates the license index of the currently used
 license. This object has the same value as clmgmtLicenseIndex and
 uniquely identifies an entry in clmgmtLicenseInfoTable in
 CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed and device is running base image.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
```

```
}
```

```
leaf cilmNextBootLicenseStoreIndex {
 type uint32;
 description
 "This object indicates the license store index where the
 next boot license is stored. This object has the same
 value as clmgmtLicenseStoreIndex object and uniquely
 identifies an entry in clmgmtLicenseStoreInfoTable in
```

CISCO-LICENSE-MGMT-MIB.

```
 Note: The license store index can be '0' if no license is
 installed for the next boot.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}
```

```
leaf cilmNextBootLicenseIndex {
 type uint32;
 description
 "This object indicates the license index of the next boot
 license. This object has the same value as clmgmtLicenseIndex
 and uniquely identifies an entry in clmgmtLicenseInfoTable in
 CISCO-LICENSE-MGMT-MIB.
```

```
 Note: The license index can be '0' if no license is
 installed for the next boot.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
}
```

```
container cilmImageLevelToLicenseMapTable {
 description
 "This table contains the mapping between different
 image levels of each modules in the
image and the
 license required to run the modules at a particular
 image level. This table can be used to identify the
 different image levels and the appropriate licenses
 required for each.";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";
```

```
 list cilmImageLevelToLicenseMapEntry {
 key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
 description
```

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

```
leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
}
```

```
leaf cilmModuleName {
 type leafref {

 path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
 }
}
```

```
leaf cilmImageLicenseMapIndex {
 type uint32;
 description
 "This is a running index used to identify an entry
 of this table.";
 smiv2:max-access "not-accessible";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}
```

```
leaf cilmImageLicenseImageLevel {
 type cisco-image-license-mgmt-mib:BootImageLevel;
 description
 "This object indicates the image level at which
 a module can be run. A module can be run at
 different image levels. An entry will be created
 in this table for every module and image level
 combination.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}
```

```
leaf cilmImageLicenseName {
 type cisco-image-license-mgmt-mib:LicenseNameList;
 description
```

```

 "This object indicates the list of licenses needed to
 be installed for the module to run at the image level
 mentioned by cilmImageLicenseImageLevel object of this
 entry.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

leaf cilmImageLicensePriority {
 type uint32 {
 range "1..255";
 }
 description
 "This object indicates the priority of the image level
 mentioned by cilmImageLicenseImageLevel object of this
 entry. The image level with the highest priority license
 will be considered as the default level in the absense of
 next boot image level configuration. For example if there
 are three licenses 11, 12 and 13 in the ascending order of

 priority, then by default 11 will be the level at which the
 module will be running. If the next boot level is configured
 then the configuration will override the priority. The highest
 priority license supports a feature set which is a super set of
 all other licenses.";
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}
}
}
}

notification cilmBootImageLevelChanged {
 description
 "This notification is triggered when next boot image level
 is changed in the management entity. The current and
 configured image level are indicated by cilmCurrentImageLevel
 and cilmConfiguredBootImageLevel objects respectively.";
 smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

 container object-1 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
 mib:entPhysicalIndex";
 }
 }
 }
}

```

```

 leaf cilmModuleName {
 type leafref {
 path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
 }
 }

 leaf cilmCurrentImageLevel {
 type leafref {
 path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
 }
 }

 container object-2 {

 leaf entPhysicalIndex {
 type leafref {
 path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
 }
 }

 leaf cilmModuleName {
 type leafref {
 path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
 }
 }

 leaf cilmConfiguredBootImageLevel {
 type leafref {
 path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
 }
 }
 }

 smiv2:alias "ciscoImageLicenseMgmtMIB" {
 smiv2:oid "1.3.6.1.4.1.9.9.640";
 }

```

```

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
 smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}
}

```

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#
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first address should be used in the submit logs and
that the other addresses should be recognized as the
same person when interacting with Git.

Please keep the list sorted.

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aliases:
- ../enterprise/activate-aws-marketplace-license/transfer-ge-license/
- ../enterprise/license/activate-aws-marketplace-license/transfer-ge-license/
description: Transfer your AWS Marketplace Grafana Enterprise license
keywords:

```

- grafana
- enterprise
- aws
- marketplace
- transfer
- move

labels:

products:

- enterprise
- oss

title: Transfer your AWS Marketplace Grafana Enterprise license

weight: 400

---

# Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or Amazon EKS, remove the `GF\_ENTERPRISE\_LICENSE\_VALIDATION\_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license\_validation\_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.

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package license

```
import (
 "errors"
```

```

"github.com/IBM/sarama"
"github.com/agiledragon/gomonkey/v2"
"github.com/dlintw/goconf"
"github3.cisco.com/ROBOT/infra-utils/golang/kafka"
"github3.cisco.com/ROBOT/infra-utils/golang/messaging"
"github3.cisco.com/ROBOT/infra-utils/golang/robotnats"
"github3.cisco.com/ROBOT/pulse/config"
"github3.cisco.com/ROBOT/pulse/log"
"github3.cisco.com/ROBOT/pulse/util"
"github3.cisco.com/ROBOT/robot-api/golang/cw_clms"
"golang.org/x/net/context"
"os"
"reflect"
"testing"
"time"
)

var testNatsConn *robotnats.NatsStreamConn
var cfg config.ConfigCLMS

func initTest() {
 dir := os.Getenv("PULSE_TEST_DATA")
 c, err := goconf.ReadConfigFile(dir + "/pulse_local.conf")
 if err != nil {
 log.Error("error in config read.")
 }

 //Client connection
 testNatsConn, err = robotnats.NewNatsStreamConn("pulsetest", c, "nats_stream")
 if err != nil {
 log.Error("NATS streaming connection failed, error is: ", err)
 }
 retryCount := 0
 for !testNatsConn.IsConnected()
 && retryCount < 10 {
 log.Info(log.Fields{
 "connection_status": testNatsConn.IsConnected(),
 }, "Waiting for Nats Connection to be up, Retrying in 2 sec")
 <-time.After(2 * time.Second)
 retryCount++
 }
 if !testNatsConn.IsConnected() {
 log.Error("Nats Streaming connection failed")
 }
 os.Setenv("HOSTNAME", "ut")
 cfg, _ = config.ConfCLMS()
}

func TestCreateClient(t *testing.T) {

```



```

initTest()
type args struct {
 config config.ConfigCLMS
 natsConn *robotnats.NatsStreamConn
 appName string
}
tests := []struct {
 name string
 args args
 want *LicenseClient
 wantErr bool
}{
 {"TestCreateClient-negative-1", args{cfg, nil, "pulse"}, nil, true},
 {"TestCreateClient-negative-2", args{cfg, testNatsConn, ""}, nil, true},
 {"TestCreateClient-positive", args{cfg, testNatsConn, "pulse"}, &LicenseClient{}, false},
}
for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 _, err := CreateClient(tt.args.config, tt.args.natsConn, tt.args.appName)
 if
 (err != nil) != tt.wantErr {
 t.Errorf("CreateClient() error = %v, wantErr %v", err, tt.wantErr)
 return
 }

 })
}

func TestGetClient(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 want *LicenseClient
 wantErr bool
 }{
 {"TestGetClient-positive", &LicenseClient{}, false},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 got, err := GetClient()
 t.Log(got, "neeraj")
 if (err != nil) != tt.wantErr {
 t.Errorf("GetClient() error = %v, wantErr %v", err, tt.wantErr)
 return
 }
 })
 }
}

```

```

 })
 }
}

func TestIsLicenseExpired(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 wantExpired bool
 wantLicenseAuthStatus string
 }{
 {"TestIsLicenseExpired-positive", false, ""},
 {"TestIsLicenseExpired-negative", true, "EVALUATION_EXPIRED"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patch1
 := gomock.NewPatches()
 patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient, _ string)
 cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
 if tt.name == "TestIsLicenseExpired-negative" {
 return cw_clms.EntitlementStatus_EVALUATION_EXPIRED
 }
 return cw_clms.EntitlementStatus_EVALUATION
 })
 defer patch1.Reset()
 gotExpired, got := IsLicenseExpired()
 if gotExpired != tt.wantExpired || got != tt.wantLicenseAuthStatus {
 t.Errorf("IsLicenseExpired() gotExpired = %v, want %v", gotExpired, tt.wantExpired)
 t.Errorf("IsLicenseExpired() got = %v, want %v", got, tt.wantLicenseAuthStatus)
 }
 })
 }
}

```

```

func TestLicenseClient_StartPeriodicSync(t *testing.T) {
 initTest()
 ctxvar := context.Background()

 tests := []struct {
 name string
 ctx context.Context
 }{
 {"TestLicenseClient_StartPeriodicSync-positive", ctxvar},
 }
 for _, tt := range tests {

```

```

t.Run(tt.name, func(t *testing.T) {
 client,
 _ := CreateClient(cfg, testNatsConn, "appName")
 patch1 := gomock.NewPatches()
 patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateRtmCounter", func(_ *LicenseClient) {
 return

 })
 defer patch1.Reset()
 go func() {
 patch2 := gomock.NewPatches()
 patch2.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateRtmCounter", func(_ *LicenseClient) {
 return

 })
 defer patch2.Reset()
 client.StartPeriodicSync(ctxvar)
 }()
 time.Sleep(2 * time.Second)
 ctxvar.Done()
 time.Sleep(2 * time.Second)
})
}
}

func TestLicenseClient_updateRtmCounter(t *testing.T) {
 initTest()

 tests := []struct {
 name string
 }{
 {"TestLicenseClient_updateRtmCounter-positive"},
 {"TestLicenseClient_updateRtmCounter-negative"},
 {"TestLicenseClient_updateRtmCounter-negative-2"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 patch1 := gomock.NewPatches()
 patch1.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM", func(_ *LicenseClient,
 count uint32, softwareId string) error {
 if tt.name == "TestLicenseClient_updateRtmCounter-negative" {
 return errors.New("error")
 }
 })
 return nil

 })
 defer patch1.Reset()

```

```

patch2 := gomock.NewPatches()
patch2.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
 if tt.name == "TestLicenseClient_updateRtmCounter-negative-2" {
 return 0, errors.New("error")
 }
 return 0, nil

}))
defer patch2.Reset()

client, _ := CreateClient(cfg, testNatsConn, "appName")
client.updateRtmCounter()
}))
}
}

func Test_reportRTMCountToClms(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 }{
 {"Test_reportRTMCountToClms-positive"},
 {"Test_reportRTMCountToClms-negative"},
 {"Test_reportRTMCountToClms-negative-2"},
 {"Test_reportRTMCountToClms-negative-3"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 patch1 := gomock.NewPatches()
 patch1.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM",
 func(_ *LicenseClient, count uint32, softwareId string) error {
 if tt.name == "Test_reportRTMCountToClms-negative" {
 return errors.New("error")
 }
 return nil
 })
 defer patch1.Reset()

 patch2 := gomock.NewPatches()
 patch2.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
 if tt.name == "Test_reportRTMCountToClms-negative-2" {
 return 0, errors.New("error")
 }
 return 0, nil
 })
 defer patch2.Reset()

```

```

CreateClient(cfg, testNatsConn, "appName")
if tt.name == "Test_reportRTMCountToClms-negative-3" {
 clmsCtx = nil
}
reportRTMCountToClms()
})
}
}

func Test_reconcileRTUAndRTM(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 }{
 {"Test_reconcileRTUAndRTM-positive"},
 {"Test_reconcileRTUAndRTM-negative"},
 {"Test_reconcileRTUAndRTM-negative-2"},
 {"Test_reconcileRTUAndRTM-negative-3"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 patch1 := gomock.NewPatches()
 patch1.ApplyMethod(reflect.TypeOf(clmsCtx),
 "RequestRTM", func(_ *LicenseClient, count uint32, softwareId string) error {
 if tt.name == "Test_reconcileRTUAndRTM-negative" {
 return errors.New("error")
 }
 })
 return nil

 })
 defer patch1.Reset()

 patch2 := gomock.NewPatches()
 patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
string) error {
 if tt.name == "Test_reconcileRTUAndRTM-negative" {
 return errors.New("error")
 }
 })
 return nil

 })
 defer patch2.Reset()

 patch3 := gomock.NewPatches()
 patch3.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
 if tt.name == "Test_reconcileRTUAndRTM-negative-2" {
 return 0, errors.New("error")
 }
 })
}

```

```

 }
 return 0, nil

})
defer patch3.Reset()

CreateClient(cfg, testNatsConn, "appName")
if tt.name == "Test_reconcileRTUAndRTM-negative-3" {
 clmsCtx = nil
}
reconcileRTUAndRTM()
})
}
}

func Test_handleAlarmOnLicenseState(t
*testing.T) {
 initTest()
 tests := []struct {
 name string
 }{
 {"Test_handleAlarmOnLicenseState-positive"},
 {"Test_handleAlarmOnLicenseState-negative"},
 {"Test_handleAlarmOnLicenseState-negative-2"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patch1 := gomock.NewPatches()
 patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient)
 cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
 if tt.name == "Test_handleAlarmOnLicenseState-negative" {
 return cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED
 }
 }
 return 0

 })
 defer patch1.Reset()

 patch2 := gomock.NewPatches()
 patch2.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTMStatus", func(_ *LicenseClient)
 cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
 if tt.name == "Test_handleAlarmOnLicenseState-negative-2" {
 return cw_clms.EntitlementStatus_AUTHORIZED_PERIOD_EXPIRED
 }
 }
 return
 }
 0

```

```

 })
 defer patch2.Reset()

 handleAlarmOnLicenseState()
 })
 }
}

func TestLicenseClient_updateLabLicenseState(t *testing.T) {
 initTest()

 tests := []struct {
 name string
 }{
 {"Test_updateLabLicenseState-positive"},
 {"Test_updateLabLicenseState-negative"},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 patch1 := gomock.NewPatches()
 patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "getRTUStatus", func(_ *LicenseClient, _ string)
 cw_clms.EntitlementStatus_SentryEntitlementEnforceMode {
 if tt.name == "Test_updateLabLicenseState-negative" {
 return cw_clms.EntitlementStatus_EVALUATION_EXPIRED
 }
 return cw_clms.EntitlementStatus_EVALUATION

 })
 defer patch1.Reset()
 CreateClient(cfg, testNatsConn, "appName")
 clmsCtx.updateLabLicenseState()
 })
 }
}

func TestLicenseClient_getterSetter(t *testing.T) {
 initTest()

 type args struct {
 rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
 rtmStatus
 cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
 }
 type want struct {
 rtuStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
 rtmStatus cw_clms.EntitlementStatus_SentryEntitlementEnforceMode
 }
 tests := []struct {

```

```

name string
args args
want want
}{
{"Test_getterSetter-positive", args{1, 1}, want{1, 1}},
}
for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 clmsCtx.setRTMStatus(tt.args.rtmStatus)
 clmsCtx.setRTUStatus(tt.args.rtuStatus)
 if got := clmsCtx.getRTMStatus(); got != tt.want.rtmStatus {
 t.Errorf("getRTMStatus() = %v, want %v", got, tt.want.rtmStatus)
 }
 if got := clmsCtx.getRTUStatus(); got != tt.want.rtuStatus {
 t.Errorf("getRTUStatus() = %v, want %v", got, tt.want.rtuStatus)
 }
})
}
}

func Test_handleCLMSLicenseStateChange(t *testing.T) {
 initTest()
 ctx := context.Background()
 type args struct {
 notification *cw_clms.SentryLicenseState
 }
 tests
 := []struct {
 name string
 args args
 }{
 {"Test_handleCLMSLicenseStateChange-positive", args{&cw_clms.SentryLicenseState{RegistrationStatus:
cw_clms.SentryLicenseState_REGISTERED,
 Entitlements: []*cw_clms.EntitlementStatus{&cw_clms.EntitlementStatus{Tag: "1"},
&cw_clms.EntitlementStatus{Tag: "2"}}}},
 {"Test_handleCLMSLicenseStateChange-positive-2", args{&cw_clms.SentryLicenseState{RegistrationStatus:
cw_clms.SentryLicenseState_UN_REGISTERED}}},
 {"Test_handleCLMSLicenseStateChange-negative", args{nil}},
 {"Test_handleCLMSLicenseStateChange-negative-2", args{&cw_clms.SentryLicenseState{}}},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patch1 := gomock.NewPatches()
 patch1.ApplyPrivateMethod(reflect.TypeOf(clmsCtx), "updateLabLicenseState", func(_ *LicenseClient) {
 return
 })
 })
 }
}

```



```

defer patch1.Reset()

patch0 := gomock.NewPatches()
patch0.ApplyMethod(reflect.TypeOf(clmsCtx),
"RequestRTM", func(_ *LicenseClient, count uint32, softwareId string) error {

 return nil

})
defer patch0.Reset()

patch2 := gomock.NewPatches()
patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
string) error {

 return nil

})
defer patch2.Reset()

patch3 := gomock.NewPatches()
patch3.ApplyFunc(util.GetDistinctDeviceUsage, func() (uint32, error) {
 return 0, nil

})
defer patch3.Reset()

if tt.name == "Test_handleCLMSLicenseStateChange-negative-2" {
 clmsCtx = nil
}
handleCLMSLicenseStateChange(ctx, tt.args.notification)
})
}
}

func Test_getLabLicensingState(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 want bool
 wantErr bool
 }{
 {"Test_getLabLicensingState-positive", true, true},
 {"Test_getLabLicensingState-negative", false, true},
 {"Test_getLabLicensingState-negative-2", false, true},
 }
 for _, tt := range tests {
 t.Run(tt.name,

```

```

func(t *testing.T) {
 patches := gomock.ApplyMethod(testNatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _ string, _
string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
 if tt.name == "Test_getLabLicensingState-negative" {
 return errors.New("error")
 }
 return nil
 })
 defer patches.Reset()

 CreateClient(cfg, testNatsConn, "appName")
 if tt.name == "Test_getLabLicensingState-negative-2" {
 testNatsConn = nil
 }
 got, err := getLabLicensingState()
 if (err != nil) != tt.wantErr {
 t.Errorf("getLabLicensingState() error = %v, wantErr %v", err, tt.wantErr)
 return
 }
 if got != tt.want {
 t.Errorf("getLabLicensingState() got = %v, want %v", got, tt.want)
 }
}

func Test_getLicenseState(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 want *cw_clms.LicenseStatusResponse
 wantErr bool
 }{
 {"Test_getLicenseState-positive", nil, true},
 {"Test_getLicenseState-negative", nil,
true},
 {"Test_getLicenseState-negative-2", nil, true},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 patches := gomock.ApplyMethod(testNatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _ string, _
string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
 if tt.name == "Test_getLabLicensingState-negative" {
 return errors.New("error")
 }
 return nil
 })
 })
 }
}

```

```

 })
 defer patches.Reset()

 CreateClient(cfg, testNatsConn, "appName")
 if tt.name == "Test_getLicenseState-negative-2" {
 testNatsConn = nil
 }
 got, err := getLicenseState()
 if (err != nil) != tt.wantErr {
 t.Errorf("getLicenseState() error = %v, wantErr %v", err, tt.wantErr)
 return
 }
 if !reflect.DeepEqual(got, tt.want) {
 t.Errorf("getLicenseState() got = %v, want %v", got, tt.want)
 }
 })
}

func TestUpdateLicenseState(t *testing.T) {
 initTest()
 tests := []struct {
 name string
 }{
 {"Test_getLabLicensingState-positive"},
 {"Test_getLabLicensingState-negative"},
 }
 for
 _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patches2 := gomock.ApplyFunc(getLicenseState, func() (*cw_clms.LicenseStatusResponse, error) {
 if tt.name == "Test_getLabLicensingState-negative" {
 return nil, errors.New("error")
 }
 return &cw_clms.LicenseStatusResponse{Entitlements:
[*cw_clms.EntitlementStatus{&cw_clms.EntitlementStatus{Tag: "1"}, &cw_clms.EntitlementStatus{Tag: "2"}}}},
 nil
 })
 defer patches2.Reset()
 UpdateLicenseState()
 })
 }
}

func TestLicenseClient_StartClmsStateConsumer(t *testing.T) {
 initTest()

```

```

tests := []struct {
 name string
 wantSub robotnats.RobotNatsSubscription
 wantErr bool
}{
 {"Test_getLabLicensingState-positive", nil, false},
 {"Test_getLabLicensingState-negative", nil, true},
}
for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 clmsCtx.NatsConn.KafkaCfg
 = &kafka.RobotKafka{ConsumerCfg: &sarama.Config{}}
 patch1 := gomock.ApplyMethod(reflect.TypeOf(testNatsConn), "Serve", func(_ *robotnats.NatsStreamConn,
 _string,
 _ string, _ []messaging.MessageContextIdHandler) (robotnats.RobotNatsSubscription, error) {
 if tt.name == "Test_getLabLicensingState-negative" {
 return nil, errors.New("error")
 }
 return &robotnats.RobotNatsSubscriptionContainer{ }, nil
 })

 defer patch1.Reset()
 gotSub, err := clmsCtx.StartClmsStateConsumer()
 if (err != nil) != tt.wantErr {
 t.Errorf("StartClmsStateConsumer() error = %v, wantErr %v", err, tt.wantErr)
 return
 }
 if !reflect.DeepEqual(gotSub, tt.wantSub) {
 t.Errorf("StartClmsStateConsumer() gotSub = %v, want %v", gotSub, tt.wantSub)
 }
 })
}

func TestLicenseClient_RequestRTM(t *testing.T) {
 initTest()
 type args struct {
 count uint32
 softwareId string
 }
 tests := []struct {
 name string
 args args
 wantErr bool
 }{
 {"TestLicenseClient_RequestRTU-positive",

```

```

args{count: 1, softwareId: "1"}, true},
{"TestLicenseClient_RequestRTU-negative", args{count: 1, softwareId: "1"}, true},
}
for _, tt := range tests {
t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patches := gomock.ApplyMethod(clmsCtx.NatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _
string, _ string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
 if tt.name == "TestLicenseClient_RequestRTU-positive" {
 return nil
 }
 return errors.New("error")

 })
 defer patches.Reset()
 if err := clmsCtx.RequestRTM(tt.args.count, tt.args.softwareId); (err != nil) != tt.wantErr {
 t.Errorf("RequestRTM() error = %v, wantErr %v", err, tt.wantErr)
 }
})
}
}

func TestLicenseClient_RequestRTU(t *testing.T) {
 initTest()
 type args struct {
 count uint32
 softwareId string
 }
 tests := []struct {
 name string

 args args
 wantErr bool
 }{
 {"TestLicenseClient_RequestRTU-positive",
args{count: 1, softwareId: "1"}, false},
 {"TestLicenseClient_RequestRTU-negative", args{count: 1, softwareId: "1"}, true},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 patches := gomock.ApplyMethod(clmsCtx.NatsConn, "RequestSync", func(_ *robotnats.NatsStreamConn, _
string, _ string, _ string, _ interface{ }, _ interface{ }, _ time.Duration) error {
 if tt.name == "TestLicenseClient_RequestRTU-positive" {
 return nil
 }
 return errors.New("error")
 })
 })
 }
}

```

```

 })
 defer patches.Reset()
 if err := clmsCtx.RequestRTU(tt.args.count, tt.args.softwareId); (err != nil) != tt.wantErr {
 t.Errorf("RequestRTU() error = %v, wantErr %v", err, tt.wantErr)
 }
 })
}
}

func Test_handleCNCLicenseNotif(t *testing.T) {
 initTest()
 type args struct {
 ctx context.Context
 notification *cw_clms.SentryLicenseState
 }
 tests := []struct {
 name string
 args args
 }{
 {"Test_handleCNCLicenseNotif-positive",
 args{ctx: context.Background(), notification: &cw_clms.SentryLicenseState{LicenseStatus: 1}}},
 {"Test_handleCNCLicenseNotif-Negative-1", args{ctx: context.Background(), notification: nil}},
 {"Test_handleCNCLicenseNotif-Negative-2", args{ctx: context.Background(), notification:
 &cw_clms.SentryLicenseState{LicenseStatus: 1}}},
 }
 for _, tt := range tests {
 t.Run(tt.name, func(t *testing.T) {
 CreateClient(cfg, testNatsConn, "appName")
 if tt.name == "Test_handleCNCLicenseNotif-Negative-2" {
 clmsCtx = nil
 }
 patch0 := gomock.NewPatches()
 patch0.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTM", func(_ *LicenseClient, count uint32, softwareId
 string) error {
 return nil
 })
 defer patch0.Reset()

 patch2 := gomock.NewPatches()
 patch2.ApplyMethod(reflect.TypeOf(clmsCtx), "RequestRTU", func(_ *LicenseClient, count uint32, softwareId
 string) error {
 return nil
 })
 defer patch2.Reset()
 handleCNCLicenseNotif(tt.args.ctx,
 tt.args.notification)
 })
 }
}

```

}

# 1.854 etcd v3.5.16

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# 1.855 bridgeutils v3.21

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# 1.856 visual-studio-runtime v3.21

## 1.856.1 Available under license :

---

title: Access Admin Portal for Volume License customers  
author: joseb-rdc  
ms.author: amast  
manager: shve  
ms.date: 09/11/2024  
ms.topic: conceptual  
description: Access the Visual Studio subscriptions Admin Portal as an admin on a Volume License agreement and manage subscriptions and other admins as the super admin.

---

### # Accessing the Admin Portal as an admin on a Volume License agreement

If you're the primary or notices contact on your organizations agreement, you're automatically granted access to the portal upon setting up your Volume Licensing agreement. You receive a system-triggered welcome email, which prompts you to sign into the portal. The email shows which email address to use to sign into the portal. To sign in, visit <https://manage.visualstudio.com>.

> [!div class="mx-imgBorder"]  
> ![Volume License admin notification](/\_img/volume-license/super-admin-notice-2020.png "Screenshot of the welcome email that is received by new admins.")

After you're signed in, you'll be automatically set up as a super admin and can begin managing subscriptions and other admins. For information about the differences between super admins and admins, take a look at our article about [admin roles](admin-roles.md).

This process applies to all Volume Licensing agreement types including, but not limited to: Enterprise agreements, Enterprise subscriptions, Select, Select Plus, Open, Open License, Government. and Academic agreements.

### ## Resources

For assistance with sales, subscriptions, accounts and billing for Visual Studio Subscriptions, see Visual Studio [Subscriptions Support](https://aka.ms/VSSAdminSupport)

### ## See also

- + [Visual Studio documentation](/visualstudio/)
- + [Azure DevOps Services documentation](/azure/devops/)
- + [Azure documentation](/azure/)
- + [Microsoft 365 documentation](/microsoft-365/)

## ## Next steps

- + Learn how to [assign subscriptions](assign-license.md)
- + Learn more about the full range of [subscription benefits](https://visualstudio.microsoft.com/vs/benefits/)
- +
- [Set agreement preferences](admin-preferences.md)

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---

title: Assign subscriptions to multiple users

author: joseb-rdc

ms.author: amast

manager: shve

ms.date: 01/28/2025

ms.topic: conceptual

description: Assign multiple subscriptions to one or more users at the same time with the bulk operation features in the Subscriptions Admin Portal.

---

## # Assign subscriptions to multiple users

The Subscriptions Admin Portal lets you add users one-at-a-time, or in large groups. To add individual users, see [Add single users](assign-license.md).

To add large groups of users, you can use the bulk add feature, or if your organization is using Microsoft Entra **\*\*and your organization has a trusted agreement\*\***, you can use Microsoft Entra groups. This article explains the process for both options. Watch this video or read on to learn more about the bulk add feature.

## ## Use Bulk add to assign subscriptions

> [!VIDEO <https://medius.microsoft.com/Embed/video-nc/3bf6504c-8d82-4466-b6fb-93d46fdf9b17?r=553875033020>]

## Follow these steps to use the Bulk add feature:

1. Sign into the Visual Studio Subscriptions Admin Portal at <<https://manage.visualstudio.com>>.

1. To add multiple subscribers at one time, navigate to the **Manage Subscribers** tab. Choose the **Add** tab, then choose **Bulk add** in the drop-down.

1. Bulk add uses a Microsoft Excel template to upload subscriber information. In the Upload Multiple Subscribers dialog box, select **Download** to download the template.

> [!div class="mx-imgBorder"]

> [Download the Excel template to upload multiple subscribers](media/download-template-upload-subscribers.png "Screenshot of the Upload multiple subscribers dialog. The link to download the template is highlighted.")

>

> [!NOTE]

> Always download the latest version of this template. If you use an older version, your bulk upload can fail.

1. In the Excel spreadsheet, fill out the fields with the information for the individuals that you want to assign subscriptions to. (\*Reference\* is an optional field.) Save the file locally after you're done.

> [!NOTE]

> One of the fields in the template allows admins to enable or disable subscribers' ability to download software. Disabling downloads also disables their access to product keys.

To help ensure a smooth upload, observe the following best practices:

- + Ensure that none of the form fields contain commas.
- + Remove spaces before and after values in form fields.
- + Make sure user's names don't contain extra spaces between two-part first or family names. For example, if a person has a two-part first name such as "Maggie May," it should be typed as "MaggieMay" because the system doesn't trim the extra space.
- + Make sure all required fields are completed.
- + Check the **Error message** column. If any errors are listed, resolve them before attempting to upload the file.

1. Return to the Visual Studio Subscriptions Admin portal. In the **Upload Multiple Subscribers** dialog box, select **Browse**.

> [!div class="mx-imgBorder"]

> [Browse to your saved template to upload multiple subscribers](media/bulk-add-browse-saved-template.png "Screenshot of the Upload multiple subscribers dialog. The Browse option to locate the completed template is highlighted.")

1. Navigate to the Excel file that you saved, and then select **OK**.

> [!div class="mx-imgBorder"]  
> ![Upload the Excel template to upload multiple subscribers](media/bulk-upload-subscribers.png "Screenshot of the Upload multiple subscribers dialog. The name of the completed upload template is highlighted.")

An upload progress dialog appears.

If the template contains errors, the upload fails. You're shown the errors so that you can correct the template and attempt the bulk upload again.

> [!div class="mx-imgBorder"]  
> ![Error message if the upload of multiple subscribers fails](\_img/assign-license-bulk/bulk-add-upload-failure.png "Screenshot of the Manage subscribers page showing an error message indicating the bulk upload has failed.")

If you encounter a failure, follow these steps:

1. Open the Excel file you created, correct the problems, and save the file.
0. Return to the Admin Portal and dismiss the error message.
0. Choose **\*\*Add\*\***.
0. Select **\*\*Bulk add\*\***.
0. Since you already have the Excel file saved, you don't need to download the template. Select **\*\*Browse\*\***, locate the file you saved, and select **\*\*Open\*\***.
0. Select **\*\*OK\*\***.

When the upload is successful, you see the list of subscribers and a confirmation message.

> [!div class="mx-imgBorder"]  
> ![Confirmation message if the upload of multiple subscribers succeeds](\_img/assign-license-bulk/bulk-add-upload-success.png "Screenshot of the Manage subscribers page showing a message confirming the upload was successful.")

<a name='use-entra-id-groups-to-assign-subscriptions'></a>

## ## Use Microsoft Entra groups to assign subscriptions

Using this feature makes it easy to stay on top of your subscription assignments. Add

Microsoft Entra groups in the Subscriptions Admin Portal to ensure that everyone in the group is assigned a subscription. When members leave your organization and are removed from Microsoft Entra ID, their access to subscriptions is also removed automatically for you.

> [!IMPORTANT]

>

> The following limitations apply to the use of Microsoft Entra groups for adding subscribers:

- > + **\*\*Only TRUSTED agreements are can use Microsoft Entra groups.\*\***
- > + **\*\*MPSA agreements can overallocate subscriptions but can't use Entra groups.\*\***
- > + The admin must be a member of the Microsoft Entra tenant when initially adding a group to the admin portal. After the group has been added, changes to the membership of the groups does not require admin involvement.
- > + Groups must contain at least one member. Empty groups are not supported.
- > + All users must be in the top level of the group. Nested groups are not supported.
- > + All members of the group must have an email address associated with their Microsoft

Entra account.

> + Separate email addresses for notifications are not supported for subscriptions added using Microsoft Entra groups.

<a name='watch-this-video-or-read-on-to-learn-more-about-adding-subscribers-using-the-entra-id-group-feature'></a>

## Watch this video or read on to learn more about adding subscribers using the Microsoft Entra group feature.

> [!VIDEO https://medius.microsoft.com/Embed/video-nc/6e8cd58e-548b-4019-9b36-ec6462c0666b?r=499726314265]

1. Sign in to the Visual Studio Subscriptions Admin Portal at [https://manage.visualstudio.com](https://manage.visualstudio.com).

2. To add multiple subscribers at one time, navigate to the **Manage subscribers** tab.

3. Choose the **Add** tab, then select **Microsoft Entra group** in the drop-down.

> [!div class="mx-imgBorder"]

> [!Choose bulk add using Microsoft Entra ID](\_img/assign-license-bulk/bulk-add-entra.png "Screenshot of the Manage subscribers page. The Microsoft Entra group option on the Add menu is highlighted.")

4. A fly-out window appears in the right pane. Begin to enter the name of the Microsoft Entra group that you'd like to add into the form field. The system searches the available Microsoft Entra groups within your organization for a match.

5. When you select the group, the field populates with the group name. You're able to view the users in that group before you add them. Next, you can choose the subscription level, download rights, and communication preferences for the group. You can add details into the reference field if you wish.

> [!div class="mx-imgBorder"]

> [!Choose your Microsoft Entra group](\_img/assign-license-bulk/bulk-add-entra-details.png "Screenshot of the Add group dialog. Search results are displayed.")

6. Select **Add** and then **Confirm**.

7. To see the added group, scroll to the bottom of your list of users.

8. Select **View subscribers** to display the members of the group. You can view details about the subscribers in the group.

However, you can't make any edits to the subscribers or the subscriptions assigned to them.

> [!NOTE]

> If you've already assigned subscriptions individually to users who are subsequently added as part of a Microsoft Entra group, they will be added as part of the group and will no longer be listed individually. If the individual subscription is for a different subscription level, however, they will have two subscriptions. Example: If a user has

an individual Visual Studio Professional subscription, and they are a member of a group to which you assign Visual Studio Enterprise subscriptions, they will have both.

>

> If you remove a subscriber from a Microsoft Entra group that has had subscriptions assigned to it, it can take up to 24 hours for the update to be reflected in the admin portal.

## ## Frequently asked questions

<a name='q-why-cant-i-see-the-option-to-use-entra-id-groups-to-add-subscribers'></a>

### Q: Why can't I see the option to use Microsoft Entra groups to add subscribers?

A: The feature is currently only available to organizations with trusted agreements. Select the **Details** button to display your agreement information.

> [!div class="mx-imgBorder"]

> ![Select the Details button](/\_img/assign-license-bulk/bulk-add-agreement.png "Screenshot of the left nav of the manage portal. The Details button is highlighted.")

<a name='q-i-added-users-to-my-entra-id-group-but-they-dont-have-subscriptions-yet-why'></a>

### Q: I added users to my Microsoft Entra group, but they dont have subscriptions yet. Why?

A: If the changes were made directly in Microsoft Entra ID the subscriptions should be assigned quickly. If the changes were made in an on-premises Active Directory, it first needs to be synced to Microsoft Entra ID. Depending how your on-premises Active Directory is configured, the changes could take up to 24 hours to be reflected. If it takes longer than 24 hours, our [support team can help troubleshoot any issues](https://aka.ms/vsadminhelp).

<a name='q-can-i-choose-multiple-subscription-levels-to-be-assigned-within-an-entra-id-group'></a>

### Q: Can I choose multiple subscription levels to be assigned within a Microsoft Entra group?

A: No--Everyone in the group receives the same subscription level.

<a name='q-can-i-edit-subscriber-details-of-individuals-added-in-an-entra-id-group'></a>

### Q: Can I edit subscriber details of individuals added in a Microsoft Entra group?

A: No--To modify information for an individual subscriber, remove them from the Microsoft Entra group and assign them a subscription individually.

<a name='q-can-i-add-separate-notification-email-addresses-for-members-of-an-entra-id-group'></a>

### Q: Can I add separate notification email addresses for members of a Microsoft Entra group?

A: No Separate email addresses for notifications are currently not supported for subscriptions added using



Microsoft Entra groups. All emails are to the primary email (user principle name).

## ## Resources

[Visual

Studio administration and subscriptions support.](https://aka.ms/vsadminhelp)

## ## See also

- + [Visual Studio documentation](/visualstudio/)
- + [Azure DevOps documentation](/azure/devops/)
- + [Azure documentation](/azure/)
- + [Microsoft 365 documentation](/microsoft-365/)
- + [Microsoft Entra documentation](https://learn.microsoft.com/entra/)

## ## Next steps

Have just one or two subscribers to add? Check out [Add single users.](assign-license.md)

---

title: Subscriptionsavailablethrough Volume Licensing

author: joseb-rdc

ms.author: amast

manager: shve

ms.date: 12/13/2024

ms.topic: how-to

description: Purchase Visual Studio subscriptions via Volume Licensing and activate them in the Visual Studio subscriptions portal.

---

## # Visual Studio subscriptions are available through Volume Licensing

Visual Studio subscriptions are available through various channels. Choose from Volume Licensing, Cloud Solution Providers, the [Visual Studio Marketplace](https://marketplace.visualstudio.com/subscriptions), and [Microsoft Store](https://learn.microsoft.com/visualstudio/subscriptions/buy-activate-retail). This article explores purchasing and activating subscriptions through [Volume Licensing](https://www.microsoft.com/licensing/default).

## ## How to buy subscriptions

Need help with deciding which subscription is right for you? Check out our [subscription benefits page](https://visualstudio.microsoft.com/vs/benefits/).

Visual Studio subscriptions

available through the Volume Licensing include:

- + [Visual Studio Enterprise](https://www.microsoft.com/p/visual-studio-enterprise-subscription/dg7gmgf0dst4?activetab=pivot%3aoverviewtab)
- + [Visual Studio Professional](https://www.microsoft.com/p/visual-studio-professional-subscription/dg7gmgf0dst3?activetab=pivot%3aoverviewtab)
- + [Visual Studio Test Professional](https://www.microsoft.com/p/visual-studio-test-professional-

subscription/dg7gmgf0dst6?activetab=pivot%3aoverviewtab)  
+ [MSDN Platforms](https://visualstudio.microsoft.com/msdn-platforms/)

Each of these subscriptions offers the option to make an initial purchase or to renew an existing subscription. Renewal pricing, which reflects a significant discount, is only available for existing subscriptions.

> [!IMPORTANT]

> To qualify to renew subscriptions at the discounted renewal price, subscriptions should be renewed before they expire. Subscriptions expired for 30 days or more are not eligible for renewal pricing.

##

How to get started with your subscriptions

If this subscription is your first, you might not be sure how to get started. This article introduces you to the subscription portal at my.visualstudio.com, and help you get started with some of the most popular benefits included in your subscription.

> [!NOTE]

> For more information and step by step instructions on how to get started with your subscription, visit [Get started with a new subscription](https://learn.microsoft.com/visualstudio/subscriptions/new-subscriber).

## Support for Volume Licensing

If you have any questions about purchasing through Volume Licensing, help is available. Visit the [Volume Licensing portal](https://www.microsoft.com/en-us/licensing?oneroute=true) and click on Purchase tab.

## Resources

[Visual Studio subscriptions support](https://my.visualstudio.com/gethelp)

## See also

+ [Visual Studio documentation](/visualstudio/)  
+ [Azure DevOps Services documentation](/azure/devops/)  
+ [Azure documentation](/azure/)  
+  
[Microsoft 365 documentation](/microsoft-365/)

## Next steps

Once your subscription is active, visit the [Benefits](https://my.visualstudio.com/benefits?wt.mc\_id=o~msft~docs) page to see all the tools, services, training, and support benefits included in your subscription. We recommend setting up these benefits to get started:

+ [Visual Studio](vs-ide-benefit.md)  
+ [Azure DevOps](vs-azure-devops.md)

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---

title: Assign Visual Studio subscriptions to users

author: joseb-rdc

ms.author: amast

manager: shve

ms.assetid: 4e529a43-7aed-4eee-895d-862a631952df

ms.date: 01/28/2025

ms.topic: conceptual

description: Assign license subscriptions to users (subscribers) in the Subscriptions Admin Portal, set up email notifications, and send assignment messages.

---

# Assign licenses in the Visual Studio Subscriptions Admin Portal

As a Visual Studio subscriptions admin, you can use the admin portal to assign subscriptions to individual users and

groups of users.

For groups of users, you have choices for how you assign subscriptions.

- + You can assign subscriptions one at a time.
- + You can also quickly and easily upload lists of subscribers and their subscription information using the [Bulk add](assign-license-bulk.md) feature.
- + If your organization uses Microsoft Entra ID, you can [use Microsoft Entra groups to assign subscriptions](./assign-license-bulk.md#use-entra-id-groups-to-assign-subscriptions) to groups of users.

## ## Add a single subscriber

Watch the video or read on to learn how to assign a Visual Studio subscription to a new user so that they can access the subscription benefits.

> [!VIDEO <https://medius.microsoft.com/Embed/video-nc/b28f7c0a-74b9-450f-b3b6-9a6c3489b105?r=903677913064>]

1. Sign in to the [admin portal](https://manage.visualstudio.com).
  2. To assign a license to a single Visual Studio subscriber, at the top of the table, select **Add**, then choose **Individual subscriber**.
    - > [!div class="mx-imgBorder"]
    - > ![Add a single subscriber](\_img/assign-license-add/add-subscriber-individual.png "Screenshot of the subscriber list in the manage portal. Individual subscriber in the add menu is highlighted.")
  3. A fly-out panel appears. Enter the information into the form fields for the new subscriber.
    - + If your organization is using Microsoft Entra ID, typing the name of the subscriber in the **Search Microsoft Entra ID** box returns the names of any Microsoft Entra group members matching your criteria. After you select that person, sign-in email and notification email will automatically populate.
    - + If the subscriber wasn't found in your organization, you can enter the subscriber's name in the **Name** field.
    - + Enter the email address you want your subscriber to use to sign in. You can also select the **Add a different notification email for receiving communication** link and specify a different notification email address so subscribers and admins receive important subscription-related emails from Microsoft.
    - > [!div class="mx-imgBorder"]
    - > ![Subscriber details](\_img/assign-license-add/subscriber-details.png "Screenshot of the Add subscriber dialog showing fields for subscriber details.")
- > [!NOTE]
- > In order for members of a Microsoft Entra tenant to be visible when you enter a subscriber name, the admin must be a member of the tenant.
- + Choose the subscription level you want to assign to this user. (The list only contains the subscription levels that were purchased as part of your agreement.)
  - + If you want this subscriber to have access to software downloads when they sign into the [Visual Studio Subscriptions Portal](https://my.visualstudio.com?wt.mc\_id=o~msft~docs), make sure to leave the downloads toggle enabled in the **Download Settings** section. If you choose to disable downloads, the user doesn't have access to software downloads or product keys. The subscriber still has access to all other benefits included in the subscription.

> [!div class="mx-imgBorder"]  
> ![Access to downloads](media/access-to-downloads.png "Screenshot of the download settings option dialog. Allow is selected by default.")

+ If you'd like to add your own reference notes to the subscription, you can do so in the **Add reference** section.

> [!div class="mx-imgBorder"]  
> ![Add your own reference notes to each subscription](media/add-subscriber-reference-notes.png "Screenshot of the reference field used for making notes about the assignment.")

When you're done selecting options and entering data for the subscriber, choose **Add** at the bottom of the **Add Subscriber** fly-out.

> [!div class="mx-imgBorder"]  
> ![Choose the Add button](media/add-button.png "Screenshot of the bottom of the Add subscriber dialog showing the Add button.")

### ## Why use a different notification email address?

Some organizations set up their email services to block incoming emails from other domains. Blocking incoming emails means that subscribers and admins miss important communications:

- + Subscribers don't receive a notification when a subscription is assigned to them. They might also not be able to activate some of the included benefits.
- + Subscribers who assigned Visual Studio subscriptions with GitHub Enterprise don't receive the invitation to join your GitHub organization. They aren't able to access GitHub since they **must** accept the emailed invitation in order to gain access to your GitHub organization.
- + Admins aren't notified when they're added to an agreement. They don't receive monthly admin statements or notifications of feature changes that affect the way they manage subscriptions.

Using a notification email address lets you allow your subscribers to receive important communications about their subscriptions without changing their sign-in email addresses.

### ## Resend assignment emails

After you add a subscriber, an assignment email is automatically sent to the new subscriber with further instructions. You can send the assignment email again at any time by selecting the subscriber and then selecting the **Resend** button in the top menu. To resend emails to multiple users, hold down the **Ctrl** key while selecting the subscribers. When you select the **Resend** button, you see a dialog asking you to confirm you want to resend to those subscribers.

### ## Resources

Need help? Contact [Subscriptions Support](https://aka.ms/vsadminhelp).

### ##

See also

- + [Visual Studio documentation](/visualstudio/)
- + [Azure DevOps Services documentation](/azure/devops/)
- + [Azure documentation](/azure/)



- + [Microsoft 365 documentation](/microsoft-365/)
- + [Microsoft Entra documentation](https://learn.microsoft.com/entra/)

## ## Next steps

Have lots of users to add? Learn how to assign subscriptions to [multiple subscribers](assign-license-bulk.md).

---

title: Handle over-allocated licenses in Visual Studio subscriptions

author: joseb-rdc

ms.author: amast

manager: shve

ms.date: 09/16/2024

ms.topic: conceptual

description: Learn how admins can resolve over-allocated subscriptions

---

## # Handle over-allocated subscriptions

Sometimes orders are changed after subscribers have been added, which can result in having more assigned subscriptions than licenses owned by your company, which is called "over-allocation."

To see your subscription allocations, select the top icon at the left to open the overview pane.

> [!NOTE]

> Over-allocations are not allowed in Open License programs. Also, other programs may display this information in the portal differently.

>

> [!div class="mx-imgBorder"]

> [!Notice of Over-claimed Subscriptions](\_img/over-claimed/over-claimed-alert.png "Screenshot of the Overview fly-out dialog. The Overview icon is highlighted.")

The display uses a hashed bar to indicate over-allocated subscriptions. The number of over-allocations across all subscription types is included in the Overview section at the top, and each subscription level also displays its own allocation status.

## ## Receive notifications when over-allocations occur

You can designate an email address to receive notifications when overallocations occur, and set a threshold that must be exceeded before notifications are sent. Learn more about [setting preferences for your agreements](admin-preferences.md) in the admin portal.

## ## Resolve over-allocated subscriptions

There are several ways to resolve over-allocations:

- + Contact your reseller to purchase more subscriptions.
- + Wait until your annual true-up period and pay for the over-allocated subscriptions at that point.
- + Delete some subscription assignments. (The true-up still takes place based on the maximum number of subscriptions assigned at any time during the year.)

## ## Billing and true-up

If your organization has an Enterprise Agreement (EA), admins are able to assign subscriptions without purchasing them, and pay for them later through a reconciliation process known as a "true-up." When you over-allocate, your organization is billed for the maximum number of subscriptions assigned to users during the "true-up." The billing takes place even if you no longer have the maximum number of subscriptions assigned at the time the true-up takes place. To learn more about monitoring your maximum usage, visit the [Maximum Usage](maximum-usage.md) article.

## ## See also

- + [Visual Studio documentation](/visualstudio/)
- + [Azure DevOps Services documentation](/azure/devops/)
- + [Azure documentation](/azure/)
- + [Microsoft 365 documentation](/microsoft-365/)

## ## Next steps

- + Learn more about managing [Visual Studio subscriptions with GitHub Enterprise](assign-github.md).
- + For assistance with sales, subscriptions, accounts and billing for Visual Studio Subscriptions, contact Visual Studio [Subscriptions Support](https://aka.ms/vsadminhelp).

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title: DeleteVisual Studio Subscription AssignmentsintheSubscriptionsAdminPortal
author: joseb-rdc
ms.author: amast
manager: shve
ms.assetid: e49242bc-e9f2-49e8-8caa-f574d508aba6
ms.date: 01/28/2025
ms.topic: how-to
description: Learn how admins can delete subscription assignments in the Visual Studio Subscriptions Admin Portal.

Delete assignments in Visual Studio subscriptions

```

When a subscriber no longer requires a Visual Studio subscription, you can remove their subscription and assign it to someone else. When you reassign a subscription, not all the subscriber benefits are reset. The new user is able to claim any unclaimed keys and view previously claimed keys, but claim limits are *\*not\** reset. For organizations that

have Enterprise Agreements (EAs), any benefits that were used by the original user, such as Pluralsight training, are reset.

> [!IMPORTANT]

> Subscriptions can only be assigned to different users if a minimum of 90 days have passed after the subscription was

last assigned. For example, if a subscription was assigned to a subscriber on June 1, it can't be assigned to a new subscriber until at least August 30.

To learn how to delete assignments, watch the following video or continue reading.

> [!VIDEO <https://medius.microsoft.com/Embed/video-nc/b1db51e8-18e2-4432-9f8c-9a172cb1ca02?r=455207584654>]

## ## Delete a subscription assignment

1. Select the name of the subscriber you want to remove. To select multiple subscribers for removal, you can select the circle to the left of the subscriber name to select each one. Or you can hold down the Ctrl key and select each subscriber you want to remove. To remove a range of subscribers, select the first one, press the Shift key, and then select the last one. Press the Ctrl+A buttons to select and remove all subscribers. In this example, three subscribers named Amber, Kai, and Madison are deleted.

2. To delete the selected subscribers, select **\*\*Delete\*\***.

> [!div class="mx-imgBorder"]

> [!Delete

subscribers](/\_img/delete-license/delete-subscribers.png "Screenshot of the Manage subscribers page in the admin portal. The Delete menu option is highlighted.")

3. When a message appears that asks you to confirm the deletion, select **\*\*OK\*\***.

> [!NOTE]

> If you added subscription assignments through Microsoft Entra groups, it might take up to 24 hours for the deletion to be updated in the admin portal. For more information about by using Microsoft Entra groups to manage subscriptions, see [this article about adding multiple users](assign-license-bulk.md#use-entra-id-groups-to-assign-subscriptions).

## ## Delete a large number of subscriptions

If you need to delete a large number of subscription assignments, you can use the **\*\*Bulk edit\*\*** feature.

> [!IMPORTANT]

> Before you make large changes to your subscriber list, we recommend that you create a backup of your current list. Select the **\*\*Export\*\*** option to create a backup. This action places an Excel copy of your current list in your downloads folder.

>

> Don't use this approach to manage cloud subscriptions. Although you can download and complete the bulk edit template, you can't upload the template with your changes.

1. [Sign in](https://manage.visualstudio.com) by using an email address with admin rights for the agreement that was used to purchase the subscriptions.

0. Select the **Bulk edit** option.

> [!div class="mx-imgBorder"]

> ![Select Bulk edit](\_img/delete-license/bulk-edit-select.png "Screenshot of the Manage subscribers page in the admin portal. The Bulk edit menu option is highlighted.")

0. The **Edit Multiple Subscribers** dialog appears.

0. Select the **Export this excel** link in step 1.

> [!div class="mx-imgBorder"]

> ![Select Export this excel](\_img/delete-license/export-this-excel-select.png "Screenshot of the Edit multiple subscribers dialog. The Export this excel link in the first step is highlighted.")

0. Your subscriber list downloads as an Excel file. Locate the file

in your downloads folder, and then open it. The file name contains the name of your agreement and the current date.

0. In a column to the right of the template, paste the email addresses of the subscribers you want to remove. (In the current template, column **V** is the first one available. Don't unhide any hidden columns and use them.) For this example, we're removing these users:

\* `aa-user1@contoso.com`

\* `a-user3@contoso.com`

\* `a-user5@contoso.com`

\* `b-user2@contoso.com`

\* `b-user4@contoso.com`

> [!div class="mx-imgBorder"]

> ![Add the users you want to delete](\_img/delete-license/user-list-added.png "Screenshot of the bulk edit template that shows the users you want to delete listed in the right-most column. The list of users is highlighted.")

0. Select both the column that contains the users you want to delete, and the column that contains the email addresses of all the users. In this case, that's column **B** and column **V**. To select the columns, select the first column heading, and then Ctrl+Select the second column heading. The template should now look like this:

> [!div class="mx-imgBorder"]

> ![Select both user columns](\_img/delete-license/columns-selected.png "Screenshot of the bulk edit template that shows the columns for all users with the users you want to delete selected.")

0. On the **Home** tab in Excel, select **Conditional Formatting**, choose **Highlight Cells Rules**, and then select **Duplicate Values**.

0. Select **OK** to accept the default color choice. The users you want to delete should be highlighted in both columns.

> [!div class="mx-imgBorder"]

> ![Duplicates highlighted](\_img/delete-license/duplicates-highlighted.png "Screenshot of the bulk edit template that shows the columns for all users and the users you want to delete selected. The user names that you want to delete are highlighted.")

0. To deselect the two columns, select a cell in the spreadsheet.

0. On the **Data** tab, select **Filter**.

0.



Select the filter dropdown menu in column **B**, choose **Sort by color**, and select the color that was applied to the duplicate cells. You should now see only the users you want to delete.

0. In the **Reference** column for each user, identify the users you want to delete by entering a specific word or phrase. Use the same term for all of the users. In the following example, the phrase is **DELETE USER**. You can use the **fill down** feature in Excel to replicate the phrase for all of the users. Your template should now look like this:

> [!div class="mx-imgBorder"]

> ![Filtered User List](\_img/delete-license/reference-added.png "Screenshot of the template that shows the columns filtered by color. The phrase Delete User has been added to the reference field for each user.")

0. Save the template.

0. Switch back to the admin portal. The **Edit multiple subscribers** dialog should still be open. (If it's not, just reselect the **Bulk edit** option.)

0. Select the **Browse**

button, select the file you saved, and select **Open**. The name of your file is displayed in the dialog.

0. Select **OK**.

0. You should now see your subscriber list. The subscribers you want to delete should have the identifying phrase you defined earlier in the **Reference** column. If it's not visible and you want to display it, select the **Edit columns** menu option and add the column.

> [!div class="mx-imgBorder"]

> ![List Showing Reference](\_img/delete-license/reference-list.png "Screenshot of the subscriber list in the admin portal that shows the addition of the reference term that marks the users you want to delete.")

0. In the **Filter by name, email or reference** field, enter the word or phrase that you used to mark the users you want to delete. The filter is applied even if the **Reference** column isn't displayed.

0. You should now see only the users you need to delete. You can select one user, then use Ctrl+A to select them all, and choose **Delete**.

0. Clear

the filter field to display your updated subscriber list.

## ## Related content

\* [Subscriptions support](https://aka.ms/vsadminhelp)

\* [Visual Studio documentation](/visualstudio/)

\* [Azure DevOps documentation](/azure/devops/)

\* [Azure documentation](/azure/)

\* [Microsoft 365 documentation](/microsoft-365/)

\* Need to change a subscription without deleting it? Learn how to [edit subscriptions](edit-license.md).

\* To find a particular subscription, check out [search for a subscription](search-license.md).

\* Need to create a list of all your subscriptions? See [export subscriptions](exporting-subscriptions.md).

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M:System.Security.RightsManagement.UnsignedPublishLicense.Sign(System.Security.RightsManagement.SecureEnvironment, System.Security.RightsManagement.UseLicense@)  
href: [https://msdn.microsoft.com/en-us/library/ms554802\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms554802(v=vs.110).aspx)  
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title: Edit Visual Studio Subscriptions in the Admin Portal  
author: joseb-rdc  
ms.author: amast  
manager: shve  
ms.date: 01/28/2025  
ms.topic: how-to  
description: Learn how admins can edit subscription assignments.

---

## # Edit Visual Studio subscription assignments

As a subscription admin, you can make changes to the subscriptions assigned to members of your organization. This article discusses changes that you can make and provides the necessary steps.

> [!NOTE]

> If you need to change certain subscription details for a subscriber assigned through a Microsoft Entra group, you need to remove them from the group and add them into the admin portal individually. Changes to email addresses and name spelling should be made in the Microsoft Entra group. If you need to change subscription levels or download permissions, you need to remove them from the group and add them directly into the admin portal.

## ## Change subscriber information

You can edit a subscriber's information to correct errors or update information.

To edit a subscriber, select the ellipsis (⋮) that appears next to the subscriber's email address when you hover your mouse over it. Use the dropdown menu to select **Edit** to modify the subscriber's details.

> [!div class="mx-imgBorder"]

> [!Select subscriber to edit](/\_img/edit-license/select-subscriber.png "Screenshot of the flyout menu. Select the ellipsis and choose Edit.")

You can update the following fields: subscriber's first name, family name, subscription level, email address, country/region, language, downloads, and reference. Edit the subscriber's information, and select **Save**.

## ## <a name = "edit-multiple-subscribers-using-bulk-edit"></a> Edit multiple subscribers by using bulk edit

You can edit multiple subscribers at the same time by using the bulk edit process. This feature is primarily used for organizations that are going through corporate email address changes or that want to restrict access to downloads.

To learn how to edit multiple subscribers by using bulk edit, watch the following video or read on.

> [!VIDEO <https://medius.microsoft.com/Embed/video-nc/325f5ca9-c8c9-4a15-a93d-8190423c9ef7?r=552201291173>]

> [!NOTE]

> Don't change subscription GUIDs in the template. See this article about [assigning specific subscription GUIDs](assign-guid.md).

1. To edit multiple subscribers at the same time, go to the **Subscribers** tab. In the ribbon at the top, select **Bulk Edit**.

2. The **Bulk edit** feature makes edits to subscriber information by using an Excel template. In the **Bulk Edit** box, select **Export this excel** to download the current list of subscribers, including all of their information.

> [!div class="mx-imgBorder"]

> ![Editing a License - Export Bulk Edits List](\_img/edit-license/edit-license-bulk-edit-export.png "Screenshot of the Edit multiple subscribers dialog with the Export this excel link highlighted.")

3. Save the file locally so that you can easily find it and make any necessary changes before uploading it.

4. Return to the Visual Studio Subscriptions Admin portal and in the **Bulk Edit** dialog, select **Browse**. Choose the Excel file you saved and select **OK**. The upload progress appears.

> [!div class="mx-imgBorder"]

> ![Editing a License - Bulk Edits File Upload](\_img/edit-license/edit-license-bulk-file-upload1.png "Screenshot of the Edit multiple subscribers dialog with the name of the completed template highlighted.")

5. After you upload the file, you see a notification that it was successful. Your edits are now reflected in the subscriber information.

## ## Related content

\* [Subscriptions support](https://aka.ms/vsadminhelp)

\* [Visual Studio documentation](/visualstudio/)

\* [Azure DevOps documentation](/azure/devops/)

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\* [Microsoft 365 documentation](/microsoft-365/)

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principal author, although it includes many contributions from others.

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

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

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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

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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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package pq

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

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

```

```

}

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

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

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

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
 return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//

```

```
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
 c.noticeHandler = handler
 return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/mattproud/golang\\_protobuf\\_extensions](https://github.com/mattproud/golang_protobuf_extensions)

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## Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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# 1.864 azure-sdk-for-go-sdk-azidentity 10.x

## 1.864.1 Available under license :

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```
//go:build go1.18
```

```
// +build go1.18
```

```
// Copyright (c) Microsoft Corporation. All rights reserved.
```

```
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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package fake
```

```
import (
```

```
 "context"
```

```
 "errors"
```

```
 "fmt"
```

```
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
 "net/http"
```

```
 "net/url"
```

```
 "regexp"
```

```
)
```

```
// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
```

```
type LicensesServer struct {
```

```
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
```

```
 // HTTP status codes to indicate success:
```

```
 http.StatusOK
```

```
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
```

```

armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

// BeginDelete is the fake for method LicensesClient.BeginDelete
// HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

// Get is the fake for method LicensesClient.Get
// HTTP status codes to indicate success: http.StatusOK
Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

// NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
// HTTP status codes to indicate success: http.StatusOK
NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

// NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
// HTTP status codes to indicate success: http.StatusOK
NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

// BeginUpdate is the fake for method LicensesClient.BeginUpdate
// HTTP status codes to indicate success: http.StatusOK
BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

// BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
// HTTP status codes to indicate success: http.StatusOK
BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azure.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport

```

```

{
return &LicensesServerTransport{
 srv: srv,
 beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
 beginDelete: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
 newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
 newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
 beginUpdate: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
}
}

```

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.  
// Don't use this type directly, use NewLicensesServerTransport  
instead.

```

type LicensesServerTransport struct {
 srv *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

```

// Do implements the policy.Transporter interface for LicensesServerTransport.

```

func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
 method,
 ok := rawMethod.(string)
 if !ok {
 return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }
}

```

```

var resp *http.Response
var err error

```

```

switch method {
case "LicensesClient.BeginCreateOrUpdate":
 resp, err = l.dispatchBeginCreateOrUpdate(req)
}

```

```

case "LicensesClient.BeginDelete":
 resp, err = l.dispatchBeginDelete(req)
case "LicensesClient.Get":
 resp, err = l.dispatchGet(req)
case "LicensesClient.NewListByResourceGroupPager":
 resp, err = l.dispatchNewListByResourceGroupPager(req)
case "LicensesClient.NewListBySubscriptionPager":
 resp, err = l.dispatchNewListBySubscriptionPager(req)
case "LicensesClient.BeginUpdate":
 resp, err = l.dispatchBeginUpdate(req)
case "LicensesClient.BeginValidateLicense":
 resp, err = l.dispatchBeginValidateLicense(req)
default:
 err = fmt.Errorf("unhandled API %s", method)
}

if err != nil {
 return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#$%&*~@-]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#$%&*~@-]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#$%&*~@-]_a-zA-Z0-9~% @)+`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return
 }
 nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])

```

```

if err != nil {
 return nil, err
}
respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
}
beginCreateOrUpdate = &respr
l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
if l.srv.BeginDelete
== nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
}
beginDelete := l.beginDelete.get(req)
if beginDelete == nil {
 const regexStr = `subscriptions/(?P<subscriptionId>[!#&$-;=?-_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-_a-zA-Z0-9~% @]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
}

```

```

licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
 return nil, err
}
respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if
respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
}
beginDelete = &respr
l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])

```

```

if err != nil {
 return nil, err
}
respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
}
respContent := server.GetResponseContent(respr)
if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
}
resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
if err != nil {
 return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft\HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 2 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if
err != nil {
 return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
}

```



```

resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
 const regexStr = `^/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]_a-zA-Z0-
9~% @]+)/providers/Microsoft\\HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
 resp,
err := server.PagerResponderNext(newListBySubscriptionPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListBySubscriptionPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListBySubscriptionPager) {

```

```

l.newListBySubscriptionPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-_a-zA-Z0-9~% @]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
 return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
 return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
 l.beginUpdate.remove(req)
 }
}

```

```

 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
 const regexStr = `^/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]_a-zA-Z0-9~% @]+)/providers/Microsoft\\HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
 return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
 }
}

```

}

return resp, nil

}

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azwebpubsub

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aztemplate

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```
{
 "main": "dist/src/index.js",
```

```

"dependencies": {
 "@azure-tools/typespec-go": "0.4.7"
},
"devDependencies": {
 "@azure-tools/typespec-autorest": "0.56.0",
 "@azure-tools/typespec-azure-core": "0.56.0",
 "@azure-tools/typespec-azure-resource-manager": "0.56.0",
 "@azure-tools/typespec-azure-rulesets": "0.56.0",
 "@azure-tools/typespec-client-generator-core": "0.56.2",
 "@azure-tools/typespec-liftr-base": "0.8.0",
 "@typespec/compiler": "1.0.0",
 "@typespec/events": "0.70.0",
 "@typespec/http": "1.0.1",
 "@typespec/openapi": "1.0.0",
 "@typespec/rest": "0.70.0",
 "@typespec/sse": "0.70.0",
 "@typespec/streams": "0.70.0",
 "@typespec/versioning": "0.70.0"
}
}

```

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```
//go:build go1.18
```

```
// +build go1.18
```

```
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```

```
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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package armhybridcompute
```

```
import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)
```

```
// LicensesClient contains the methods for the Licenses group.
```

```
// Don't use this type directly, use NewLicensesClient() instead.
```

```
type LicensesClient struct {
 internal *arm.Client
 subscriptionID string
}
```

```
// NewLicensesClient creates a new instance of LicensesClient with the specified values.
```

```
// - subscriptionID - The ID of the target
```

```
subscription.
```

```
// - credential - used to authorize requests. Usually a credential from azidentity.
```

```
// - options - pass nil to accept the default values.
```

```
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
 return nil, err
 }
}
```

```

client := &LicensesClient{
 subscriptionID: subscriptionID,
 internal: cl,
}
return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)

```

```

ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
if err != nil {
 return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
}
return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }

```

```

}
return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
if options == nil || options.ResumeToken == "" {
resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
if err != nil {
return nil, err
}
poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
Tracer: client.internal.Tracer(),
})
return poller, err
} else {
return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
Tracer: client.internal.Tracer(),
})
}
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
var err error
const
operationName = "LicensesClient.BeginDelete"
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
if err != nil {
return nil, err
}

```

```

}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
}
return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.

```

```

// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 {
 return LicensesClientGetResponse{}, err
 }
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }

```

```

 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
 return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
// LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
 More: func(page LicensesClientListByResourceGroupResponse) bool {
 return page.NextLink != nil && len(*page.NextLink) > 0
 },
 Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
 nextLink := ""
 if page != nil {
 nextLink = *page.NextLink
 }
 resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
 return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
 }, nil)
 if err != nil {
 return LicensesClientListByResourceGroupResponse{}, err
 }
 return client.listByResourceGroupHandleResponse(resp)
 },
 })
}

```



```

 Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListByResourceGroupResponse{}, err
 }
 return
result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)

```

```

*runtime.Pager[LicensesClientListBySubscriptionResponse] {
return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
 More: func(page LicensesClientListBySubscriptionResponse) bool {
 return page.NextLink != nil && len(*page.NextLink) > 0
 },
 Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
 nextLink := ""
 if page != nil {
 nextLink = *page.NextLink
 }
 resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
 return client.listBySubscriptionCreateRequest(ctx, options)
 }, nil)
 if err != nil {
 return LicensesClientListBySubscriptionResponse{ }, err
 }
 return client.listBySubscriptionHandleResponse(resp)
},
 Tracer: client.internal.Tracer(),
}))
}

```

// listBySubscriptionCreateRequest creates the ListBySubscription request.

```

func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

```

// listBySubscriptionHandleResponse handles the ListBySubscription response.

```

func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)

```

```

(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
// - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
// LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
 Tracer:
client.internal.Tracer(),
 })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"

```

```

ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
if err != nil {
 return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return
 nil, err
}
return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }

```

```

 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.validateLicense(ctx, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
 Tracer: client.internal.Tracer(),
 })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
 return nil, err
 }

```

```

}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
}
return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

```

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//go:build go1.18  
// +build go1.18

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```

// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
 LicenseDetails: &armhybridcompute.LicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors: to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
 }, nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=

```



```

nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
//
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
 LicenseDetails: &armhybridcompute.LicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),

```

```

Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
Processors: to.Ptr[int32](6),
State: to.Ptr(armhybridcompute.LicenseStateActivated),
Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
},
LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
}, nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated
from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {

```

```

cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
 LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors:
to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),

```

```

// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),

```

```

// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
_, err = poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)

```

```

for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
 log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
 // You could use page here. We use blank identifier for just demo purposes.
 _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
 Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 // Value: []*armhybridcompute.License{
 // {
 // Name: to.Ptr("{licenseName}"),
 //
 // Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 // ID:
 to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 // Location: to.Ptr("eastus2euap"),
 // Properties: &armhybridcompute.LicenseProperties{
 // LicenseDetails: &armhybridcompute.LicenseDetails{
 // Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 // AssignedLicenses: to.Ptr[int32](8),
 // Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 // ImmutableID: to.Ptr("<generated Guid>"),
 // Processors: to.Ptr[int32](6),
 // State: to.Ptr(armhybridcompute.LicenseStateActivated),
 // Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 // },
 // LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 // TenantID: to.Ptr("{tenandId}"),
 // },
 // },
 // },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListBySubscription.json
func
ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }

```

```

}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
 log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
 // You could use page here. We use blank identifier for just demo purposes.
 _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 // follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 // Value: []*armhybridcompute.License{
 // {
 // Name: to.Ptr("{licenseName}"),
 // Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 // ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 // Location: to.Ptr("eastus2euap"),
 // Properties: &armhybridcompute.LicenseProperties{
 // LicenseDetails: &armhybridcompute.LicenseDetails{
 // Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 // AssignedLicenses: to.Ptr[int32](8),
 // Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 // ImmutableID: to.Ptr("<generated Guid>"),
 // Processors: to.Ptr[int32](6),
 // State: to.Ptr(armhybridcompute.LicenseStateActivated),
 // Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 // },
 // LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 // TenantID: to.Ptr("{tenantId}"),
 // },
 // },
 // },
 // }
}

```

# 1.865 kops 10.x

## 1.865.1 Available under license :

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Portions of the client are based on code at:

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

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Protocol Buffers for Go with Gadgets

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

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

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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go-jmespath

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## 1.866 go-autorest-autorest 10.x

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## 1.867 azure-sdk-for-go-sdk-internal 10.x

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// +build go1.18

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package fake

```
import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/armhybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
```

```

errResp azfake.ErrorResponder)

// NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
// HTTP status codes to indicate success: http.StatusOK
NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

// NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
// HTTP status codes to indicate success: http.StatusOK
NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

// BeginUpdate is the fake for method LicensesClient.BeginUpdate
// HTTP status codes to indicate success: http.StatusOK
BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

// BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
// HTTP status codes to indicate success: http.StatusOK
BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
return &LicensesServerTransport{
 srv: srv,
 beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
 beginDelete: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
 newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
 newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
 beginUpdate: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
}
}

```

```
// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
instead.
```

```
type LicensesServerTransport struct {
 srv *LicensesServer
 beginCreateOrUpdate
 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
 *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
 *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}
```

```
// Do implements the policy.Transporter interface for LicensesServerTransport.
```

```
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
 method,
 ok := rawMethod.(string)
 if !ok {
 return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }
```

```
 var resp *http.Response
 var err error
```

```
 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
 resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
 resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
 resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
 resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
 resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
 resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
 resp, err = l.dispatchBeginValidateLicense(req)
 default:
 err = fmt.Errorf("unhandled API %s", method)
 }
```



```

if err != nil {
 return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
*http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return
 nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
 nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginCreateOrUpdate = &respr
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
 return nil, err
 }

```

```

}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-_a-zA-Z0-9~% @]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
 respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {

```

```

return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK, http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft\HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK", respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {

```

```

 return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 2 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if
 err != nil {
 return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
 *armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
 return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
 resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

```

```

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
 return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListBySubscriptionPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
 l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

```

```

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex
 }

```

```

:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
if err != nil {
 return nil, err
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
 return nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
 return nil, err
}
respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
}
beginUpdate = &respr
l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)

```

```

if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)/providers/Microsoft\\HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
}

resp, err := server.PollerResponderNext(beginValidateLicense, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
}

return resp, nil
}

```

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
 "@azure-tools/typespec-go": "0.4.7"
 },
 "devDependencies": {
 "@azure-tools/typespec-autorest": "0.56.0",
 "@azure-tools/typespec-azure-core": "0.56.0",
 "@azure-tools/typespec-azure-resource-manager": "0.56.0",
 "@azure-tools/typespec-azure-rulesets": "0.56.0",
 "@azure-tools/typespec-client-generator-core": "0.56.2",
 "@azure-tools/typespec-liftr-base": "0.8.0",
 "@typespec/compiler": "1.0.0",
 "@typespec/events": "0.70.0",
 "@typespec/http": "1.0.1",
 "@typespec/openapi": "1.0.0",
 "@typespec/rest": "0.70.0",
```

```
"@typespec/sse": "0.70.0",
"@typespec/streams": "0.70.0",
"@typespec/versioning": "0.70.0"
}
}
```

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//go:build go1.18

// +build go1.18

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```
package armhybridcompute
```

```
import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)
```

// LicensesClient contains the methods for the Licenses group.

// Don't use this type directly, use NewLicensesClient() instead.

```
type LicensesClient struct {
 internal *arm.Client
 subscriptionID string
}
```

// NewLicensesClient creates a new instance of LicensesClient with the specified values.

// - subscriptionID - The ID of the target  
subscription.

// - credential - used to authorize requests. Usually a credential from azidentity.

// - options - pass nil to accept the default values.

```
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
 return nil, err
 }
 client := &LicensesClient{
 subscriptionID: subscriptionID,
 internal: cl,
 }
 return client, nil
}
```

// BeginCreateOrUpdate - The operation to create or update a license.

// If the operation fails it returns an \*azcore.ResponseError type.

//

// Generated from API version 2024-07-31-preview

// - resourceGroupName - The name of the resource group. The name is case insensitive.

// - licenseName - The name of the license.

// - parameters - Parameters supplied to the Create license operation.

```

// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
 }
}

```

```

return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],

```



```

error) {
if options == nil || options.ResumeToken == "" {
 resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
 Tracer: client.internal.Tracer(),
 })
}
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName

```

```

string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)

```

```

if err != nil
{
 return LicensesClientGetResponse{ }, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return LicensesClientGetResponse{ }, err
}
resp, err := client.getHandleResponse(httpResp)
return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{ }
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
 return LicensesClientGetResponse{ }, err
 }
}

```

```

return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
// LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]){
More: func(page LicensesClientListByResourceGroupResponse) bool {
return page.NextLink != nil && len(*page.NextLink) > 0
},
Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
nextLink := ""
if page != nil {
nextLink = *page.NextLink
}
resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
}, nil)
if err != nil {
return LicensesClientListByResourceGroupResponse{ }, err
}
return client.listByResourceGroupHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
})
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
if resourceGroupName == "" {
return nil, errors.New("parameter resourceGroupName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))

```

```

if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
 return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]){
 More: func(page LicensesClientListBySubscriptionResponse) bool {
 return page.NextLink != nil && len(*page.NextLink) > 0
 },
 Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
 nextLink := ""
 if page != nil {
 nextLink = *page.NextLink
 }
 resp,

```

```

err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
 return client.listBySubscriptionCreateRequest(ctx, options)
}, nil)
if err != nil {
 return LicensesClientListBySubscriptionResponse{ }, err
}
return client.listBySubscriptionHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
}))
}

```

// listBySubscriptionCreateRequest creates the ListBySubscription request.

```

func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

```

// listBySubscriptionHandleResponse handles the ListBySubscription response.

```

func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{ }
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListBySubscriptionResponse{ }, err
 }
 return result, nil
}

```

// BeginUpdate - The operation to update a license.

// If the operation fails it returns an \*azcore.ResponseError type.

//

// Generated from API version 2024-07-31-preview

// - resourceGroupName - The name of the resource group. The name is case insensitive.

```
// - licenseName
// - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
 Tracer:
client.internal.Tracer(),
 })
 }
}
```

```
// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 }
}
```

```

 return
 nil, err
}
return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options

```



```

*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
if options == nil || options.ResumeToken == "" {
 resp, err := client.validateLicense(ctx, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
 Tracer: client.internal.Tracer(),
})
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
 Tracer: client.internal.Tracer(),
})
}
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.

```

```

func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

```

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//go:build go1.18

// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DO NOT EDIT.

package armhybridcompute\_test

import (

    "context"

    "log"

    "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"

    "github.com/Azure/azure-sdk-for-go/sdk/azidentity"

    "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"

)

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
 LicenseDetails: &armhybridcompute.LicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors: to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
 }, nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
 log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
 Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 // Name: to.Ptr("{licenseName}"),
 // Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 // ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 // Location: to.Ptr("eastus2euap"),
 // Properties: &armhybridcompute.LicenseProperties{
 // LicenseDetails: &armhybridcompute.LicenseDetails{
```

```

// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
//
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
 LicenseDetails: &armhybridcompute.LicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors: to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
 }, nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
 }
}

```

```

}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }

// Generated
from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
 LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),

```

```

 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors:
to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
 }, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {

```

```

cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
 cred, err := azidentity.NewDefaultAzureCredential(nil)

```



```

if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
_, err = poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
 log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
 // You could use page here. We use blank identifier for just demo purposes.
 _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
 Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 // Value: []*armhybridcompute.License{
 // {

```

```

// Name: to.Ptr("{licenseName}"),
//
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }},
// }
}
}

```

// Generated from example definition: [https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\\_ListBySubscription.json](https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ListBySubscription.json)

func

```

ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
if err != nil {
log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
// You could use page here. We use blank identifier for just demo purposes.

```

```

_ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenandId}"),
// },
// }},
// }
}
}

```

# 1.868 kubernetes-csi-api 10.x

## 1.868.1 Available under license :

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# 1.869 go-autorest-logger 10.x

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# 1.870 gonum-blas 10.x

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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This software package is based on the paper

I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",  
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the  $O(1)$  complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)`  
or `init_by_array64(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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# 1.871 telegraf 10.x

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# Dependency license verification tool

This tool allows the verification of information in ``docs/LICENSE_OF_DEPENDENCIES.md`` against the linked license information. To do so, the license reported by the user is checked against the license classification of the downloaded license file for each dependency.

## Building

```

```shell
make build_tools
```

```

## Running

The simplest way to run the verification tool is to execute

```

```shell
telegraf$ ./tools/license_checker/license_checker
```

```

using the current directory as telegraf's root directory and verifies all licenses. Only errors will be reported by default.

There are multiple options you can use to customize the verification. Take a look at

```
```shell
telegraf$ ./tools/license_checker/license_checker --help
```
```

to get an overview.

As the verification tool downloads each license file linked in the dependency license document, you should be careful on not exceeding the access limits of e.g. GitHub by running the tool too frequent.

Some packages change the license for newer versions. As we always link to the latest license text the classification might not match the actual license of our used dependency. Furthermore, some license text might be wrongly classified, or not classified at all. In these cases, you can use a `_whitelist_` to explicitly state the license SPDX classifier for those packages. See the [whitelist section](#whitelist) for more details.

The recommended use in telegraf is to run

```
```shell
telegraf$ ./tools/license_checker/license_checker \
    -whitelist ./tools/license_checker/data/whitelist
```
```

using the code-versioned whitelist. This command will report all non-matching entries with an ``ERR:`` prefix.

## ## Whitelist

Whitelist entries contain explicit license information for a set of packages to use instead of classification. Each entry in the whitelist is a line of the form

```
```text
[comparison operator]<package name>[@vX.Y.Z] <license SPDX>
```
```

where the `_comparison operator_` is one of

`>`, `>=`, `=`, `<=`, or `<`

and the `_license SPDX` is a [SPDX license identifier][spdx].

In case no package version is specified, the entry matches all versions of the library. Furthermore, the comparison operator can be omitted which is equivalent to an exact match (`=`).

The entries are processed in order until the first match is found.

Here is an example of a whitelist. Assume that you have library `github.com/foo/bar` which started out with the `MIT` license until version 1.0.0 where it changed to `EFL-1.0` until it again changed to `EFL-2.0` starting `__after__` version 2.3.0. In this case the whitelist should look like this

```
```text
<github.com/foo/bar@v1.0.0 MIT
<=github.com/foo/bar@v2.3.0 EFL-1.0
github.com/foo/bar EFL-2.0
```
```

All versions below 1.0.0 are matched by the first line and are thus classified as `MIT`. The second line matches everything that is above 1.0.0 (thus not matched by the first line) until (and including) 2.3.0. The last line with catch everything that was passing the first two lines i.e. everything after 2.3.0.

[spdx]: <https://spdx.org/licenses/>  
package main

```
import (
 "bufio"
 "log"
 "os"
 "regexp"
 "strings"

 "github.com/coreos/go-semver/semver"
)
```

```
type whitelist []whitelistEntry
```

```
type whitelistEntry struct {
 Name string
 Version *semver.Version
 Operator string
 License string
}
```

```

var re = regexp.MustCompile(`^((<=>)+\s*)?([-\.\/\w]+)(@v[\d\.]+)?\s+([-\.\/\w]+)$`)

func (w *whitelist) Parse(filename string) error {
 file, err := os.Open(filename)
 if err != nil {
 return err
 }
 defer file.Close()

 // Read file line-by-line and split by semicolon
 lineno := 0
 scanner := bufio.NewScanner(file)
 for scanner.Scan() {
 line := strings.TrimSpace(scanner.Text())
 lineno++
 if strings.HasPrefix(line, "#") {
 // Comment
 continue
 }

 groups := re.FindAllStringSubmatch(line, -1)
 if len(groups) != 1 {
 log.Printf("WARN: Ignoring not matching entry in line %d", lineno)
 continue
 }
 group := groups[0]
 if len(group) != 5 {
 // Malformed
 log.Printf("WARN: Ignoring malformed entry in line %d", lineno)
 continue
 }

 //
 An entry has the form:
 // [operator]<package name>[@version] [license SPDX]
 var operator, version string
 if group[1] != "" {
 operator = strings.TrimSpace(group[1])
 }
 name := group[2]
 if group[3] != "" {
 version = strings.TrimSpace(group[3])
 version = strings.TrimLeft(version, "@v")
 }
 license := strings.TrimSpace(group[4])

 entry := whitelistEntry{Name: name, License: license, Operator: operator}
 }
}

```



```

if version != "" {
 entry.Version, err = semver.NewVersion(version)
 if err != nil {
 // Malformed
 log.Printf("Ignoring malformed version in line %d: %v", lineno, err)
 continue
 }
 if entry.Operator == "" {
 entry.Operator = "="
 }
}
*w = append(*w, entry)
}

return scanner.Err()
}

func (w *whitelist) Check(pkg, version, spdx string) (ok, found bool) {
 v := strings.TrimSpace(version)
 v = strings.TrimPrefix(v, "v")
 if v == "" {
 return false, false
 }
 pkgver := *semver.New(v)

 for _, entry := range *w {
 if entry.Name
 != pkg {
 continue
 }

 var match bool
 switch entry.Operator {
 case "":
 match = true
 case "=":
 match = pkgver.Equal(*entry.Version)
 case "<":
 match = pkgver.LessThan(*entry.Version)
 case "<=":
 match = pkgver.LessThan(*entry.Version) || pkgver.Equal(*entry.Version)
 case ">":
 match = !pkgver.LessThan(*entry.Version) && !pkgver.Equal(*entry.Version)
 case ">=":
 match = !pkgver.LessThan(*entry.Version)
 }
 if match {
 return entry.License == spdx, true
 }
 }
}

```

```

 }
}

return false, false
}
<github.com/couchbase/goutils@v0.1.2 Apache-2.0
<=github.com/segmentio/asm@v1.2.0 MIT
package main

import (
 "errors"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "strings"

 "github.com/google/licensecheck"
)

type packageInfo struct {
 name string
 version string
 license string
 url string
 spdx string
}

func (pkg *packageInfo) ToSPDX() {
 pkg.spdx = nameToSPDX[pkg.license]
}

func (pkg *packageInfo) Classify() (float64, error) {
 // Check for a valid SPDX
 if pkg.spdx == "" {
 return 0.0, fmt.Errorf("empty SPDX for license %q", pkg.license)
 }

 // Download the license text
 source, err := normalizeURL(pkg.url)
 if err != nil {
 return 0.0, fmt.Errorf("%q is not a valid URL: %w", pkg.url, err)
 }
 debugf("%q downloading from %q", pkg.name, source)

 response, err := http.Get(source.String())
 if err != nil {
 return 0.0, fmt.Errorf("download from %q failed: %w", source, err)
 }

```

```

}
if response.StatusCode < 200 || response.StatusCode > 299 {
 status := response.StatusCode
 return 0.0, fmt.Errorf("download from %q failed %d: %s", source, status, http.StatusText(status))
}
defer
response.Body.Close()
text, err := io.ReadAll(response.Body)
if err != nil {
 return 0.0, fmt.Errorf("reading body failed: %w", err)
}
if len(text) < 1 {
 return 0.0, errors.New("empty body")
}

// Classify the license text
coverage := licensecheck.Scan(text)
if len(coverage.Match) == 0 {
 return coverage.Percent, errors.New("no match found")
}
match := coverage.Match[0]
debugf("%q found match: %q with confidence %f%%", pkg.name, match.ID, coverage.Percent)

if match.ID != pkg.spdx {
 return coverage.Percent, fmt.Errorf("classification %q does not match", match.ID)
}
return coverage.Percent, nil
}

func normalizeURL(raw string) (*url.URL, error) {
 u, err := url.Parse(raw)
 if err != nil {
 return nil, err
 }

 switch u.Hostname() {
 case "github.com":
 u.Host = "raw.githubusercontent.com"
 var cleaned []string
 for _, p := range strings.Split(u.Path, "/") {
 // Filter out elements
 if p == "blob" {
 continue
 }
 cleaned = append(cleaned,
p)
 }
 u.Path = strings.Join(cleaned, "/")
 }

```

```

case "gitlab.com":
 u.Path = strings.Replace(u.Path, "/-/blob/", "/-/raw/", 1)
case "git.octo.it":
 parts := strings.Split(u.RawQuery, ";")
 for i, p := range parts {
 if p == "a=blob" {
 parts[i] = "a=blob_plain"
 break
 }
 }
 u.RawQuery = strings.Join(parts, ";")
}

return u, nil
}

```

# 1.872 gonum-graph 10.x

## 1.872.1 Available under license :

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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This software package is based on the paper

I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",  
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the  $O(1)$  complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)`  
or `init_by_array64(init_key, key_length)`.

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Any feedback is very welcome.

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# 1.873 missinggo 10.x

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",  
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the  $O(1)$  complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)`  
or `init_by_array64(init_key, key_length)`.

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M. Matsumoto and T. Nishimura,

"Mersenne Twister: a 623-dimensionally

equidistributed

uniform pseudorandom number generator"

ACM Transactions on Modeling and

Computer Simulation 8. (Jan. 1998) 3--30.

Any feedback is very welcome.

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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This software package is based on the paper

I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",  
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the  $O(1)$  complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)`  
or `init_by_array64(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove spaces)

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# 1.876 azure-sdk-for-go-sdk-azcore 10.x

## 1.876.1 Available under license :

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//go:build go1.18

// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (

"context"

"errors"

"fmt"

azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"

"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/armhybridcompute/v2"

"net/http"

"net/url"

"regexp"

)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.

type LicensesServer struct {

// BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate

// HTTP status codes to indicate success:

http.StatusOK

BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters armhybridcompute.License, options \*armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp azfake.ErrorResponder)

// BeginDelete is the fake for method LicensesClient.BeginDelete

// HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent

BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options

\*armhybridcompute.LicensesClientBeginDeleteOptions) (resp

```

azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

// Get is the fake for method LicensesClient.Get
// HTTP status codes to indicate success: http.StatusOK
Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

// NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
// HTTP status codes to indicate success: http.StatusOK
NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

// NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
// HTTP status codes to indicate success: http.StatusOK
NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

// BeginUpdate is the fake for method LicensesClient.BeginUpdate
// HTTP status codes to indicate success: http.StatusOK
BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

// BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
// HTTP status codes to indicate success: http.StatusOK
BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azure.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
return &LicensesServerTransport{
 srv: srv,
 beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
 beginDelete: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
 newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),

```

```

 newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
 beginUpdate: newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
instead.
type LicensesServerTransport struct {
 srv *LicensesServer
 beginCreateOrUpdate
 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
 *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
 *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
 method,
 ok := rawMethod.(string)
 if !ok {
 return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
 resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
 resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
 resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
 resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
 resp, err = l.dispatchNewListBySubscriptionPager(req)
 }
}

```

```

case "LicensesClient.BeginUpdate":
 resp, err = l.dispatchBeginUpdate(req)
case "LicensesClient.BeginValidateLicense":
 resp, err = l.dispatchBeginValidateLicense(req)
default:
 err = fmt.Errorf("unhandled API %s", method)
}

if err != nil {
 return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
 const regexStr = `^/subscriptions/(?P<subscriptionId>[!#&$-;=?-_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-_a-zA-Z0-9~% @]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return
 }
 nil, err
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
 nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 }
}

```

```

beginCreateOrUpdate = &respr
l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}

if !server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
 respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 }
}

```

```

 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK, http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 respContent := server.GetResponseContent(respr)

```

```

if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
}
resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
if err != nil {
 return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]_a-zA-Z0-
9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_]_a-zA-Z0-
9~% @]+)/providers/Microsoft\\HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 2 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if
err != nil {
 return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
 return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
}

```



```

}
if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft\HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
 page.NextLink = to.Ptr(createLink())
 })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
 return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListBySubscriptionPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
 l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }

```

```

}
beginUpdate := l.beginUpdate.get(req)
if beginUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~% @]+)`
 regex
:= regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
 return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil

```

```

}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~%@\+]+)/providers/Microsoft\HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
 return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
 return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
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```

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aztemplate

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
 "@azure-tools/typespec-go": "0.4.7"
 },
 "devDependencies": {
 "@azure-tools/typespec-autorest": "0.56.0",
 "@azure-tools/typespec-azure-core": "0.56.0",
 "@azure-tools/typespec-azure-resource-manager": "0.56.0",
 "@azure-tools/typespec-azure-rulesets": "0.56.0",
```

```
"@azure-tools/typespec-client-generator-core": "0.56.2",
"@azure-tools/typespec-liftr-base": "0.8.0",
"@typespec/compiler": "1.0.0",
"@typespec/events": "0.70.0",
"@typespec/http": "1.0.1",
"@typespec/openapi": "1.0.0",
"@typespec/rest": "0.70.0",
"@typespec/sse": "0.70.0",
"@typespec/streams": "0.70.0",
"@typespec/versioning": "0.70.0"
}
}
```

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```

//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
// - subscriptionID - The ID of the target
// subscription.
// - credential - used to authorize requests. Usually a credential from azidentity.
// - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
 return nil, err
 }
 client := &LicensesClient{
 subscriptionID: subscriptionID,
 internal: cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.

```

```

// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {

```

```

 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
}
return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview

```

```

// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
 Tracer: client.internal.Tracer(),
 })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
 }
}

```

```

 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)

```

```

defer func() { endSpan(err) }()
req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
if err != nil {
 return LicensesClientGetResponse{ }, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil
{
 return LicensesClientGetResponse{ }, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return LicensesClientGetResponse{ }, err
}
resp, err := client.getHandleResponse(httpResp)
return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

```

```

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
 return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
// LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
 More: func(page LicensesClientListByResourceGroupResponse) bool {
 return page.NextLink != nil && len(*page.NextLink) > 0
 },
 Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
 nextLink := ""
 if page != nil {
 nextLink = *page.NextLink
 }
 resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
 return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
 }, nil)
 if err != nil {
 return LicensesClientListByResourceGroupResponse{}, err
 }
 return client.listByResourceGroupHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=

```



```

"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licenses"
if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if
client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
 return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]){
 More: func(page LicensesClientListBySubscriptionResponse) bool {
 return page.NextLink != nil && len(*page.NextLink) > 0
 },
 Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")

```

```

nextLink := ""
if page != nil {
 nextLink = *page.NextLink
}
resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
 return client.listBySubscriptionCreateRequest(ctx, options)
}, nil)
if err != nil {
 return LicensesClientListBySubscriptionResponse{ }, err
}
return client.listBySubscriptionHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
})
}

```

// listBySubscriptionCreateRequest creates the ListBySubscription request.

```

func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

```

// listBySubscriptionHandleResponse handles the ListBySubscription response.

```

func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{ }
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
 return LicensesClientListBySubscriptionResponse{ }, err
 }
 return result, nil
}

```

```

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
// - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
 resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
 Tracer: client.internal.Tracer(),
 })
 return poller, err
 } else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
 Tracer:
client.internal.Tracer(),
 })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)

```

```

if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return
 nil, err
}
return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
 return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
 return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview

```

```

// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
if options == nil || options.ResumeToken == "" {
resp, err := client.validateLicense(ctx, parameters, options)
if err != nil {
return nil, err
}
poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
Tracer: client.internal.Tracer(),
})
return poller, err
} else {
return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
Tracer: client.internal.Tracer(),
})
}
}
}

```

// ValidateLicense - The operation to validate a license.

// If the operation fails it returns an \*azcore.ResponseError type.

//

// Generated from API version 2024-07-31-preview

```

func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
var err error
const operationName = "LicensesClient.BeginValidateLicense"
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
if err != nil {
return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
err = runtime.NewResponseError(httpResp)
return nil, err
}
}

```

```

}
return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
 return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
 return nil, err
 }
 return req, nil
}

```

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-----  
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//go:build go1.18

// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DO NOT EDIT.

package armhybridcompute\_test

import (  
"context"

```

"log"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
"github.com/Azure/azure-sdk-for-go/sdk/azidentity"
"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
 LicenseDetails: &armhybridcompute.LicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors: to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
 }, nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
 log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
 Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 // Name: to.Ptr("{licenseName}"),

```



```

// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
//
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
"{licenseName}", armhybridcompute.License{
Location: to.Ptr("eastus2euap"),
Properties: &armhybridcompute.LicenseProperties{
LicenseDetails: &armhybridcompute.LicenseDetails{
Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
Processors: to.Ptr[int32](6),
State: to.Ptr(armhybridcompute.LicenseStateActivated),
Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
},
LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
},
}, nil)
if err != nil {

```

```

log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated
from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}

```

```

poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
 LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
 Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 Processors:
to.Ptr[int32](6),
 State: to.Ptr(armhybridcompute.LicenseStateActivated),
 Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 },
 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }

```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
 Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 // Name: to.Ptr("{licenseName}"),
 // Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 // ID:
 to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
 enses/{licenseName}"),
 //
 // Location: to.Ptr("eastus2euap"),
 // Properties: &armhybridcompute.LicenseProperties{
 // LicenseDetails: &armhybridcompute.LicenseDetails{
 // Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 // AssignedLicenses: to.Ptr[int32](8),
 // Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 // ImmutableID: to.Ptr("<generated Guid>"),
 // Processors: to.Ptr[int32](6),
 // State: to.Ptr(armhybridcompute.LicenseStateActivated),
 // Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 // },
 // LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 // TenantID: to.Ptr("{tenantId}"),
 // },
 // }

 // Generated from example definition: https://github.com/Azure/azure-rest-api-
```

```

specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
 log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
 log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
 // You could use page here. We use blank identifier for just demo purposes.
 _ = v
 }
 }
}

```

// If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.

Please pay attention that all the values in the output are fake values for just demo purposes.

```
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
// Name: to.Ptr("{licenseName}"),
//
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }},
// }
}
```

// Generated from example definition: [https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\\_ListBySubscription.json](https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ListBySubscription.json)

func

```
ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
```

```

if err != nil {
 log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
 // You could use page here. We use blank identifier for just demo purposes.
 _ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
// follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// },
// },
// }
}

```

# 1.877 go-engine-io 0.0.0-20170224222511-80ae0e43aca1

## 1.877.1 Available under license :

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ISC

# 1.878 apparmor 4.0.1really4.0.1- 0ubuntu0.24.04.4

## 1.878.1 Available under license :

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Any executables

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.880 google-cloud-go 0.115.0

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.1
// protoc v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
)
```

```

// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
 Permission_GrantType_name = map[int32]string{
 0: "GRANTEE_TYPE_UNSPECIFIED",
 1: "USER",
 2:
 "GROUP",
 3: "EVERYONE",
 }
 Permission_GrantType_value = map[string]int32{
 "GRANTEE_TYPE_UNSPECIFIED": 0,
 "USER": 1,
 "GROUP": 2,
 "EVERYONE": 3,
 }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
 p := new(Permission_GrantType)
 *p = x
 return p
}

func (x Permission_GrantType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
 0: "ROLE_UNSPECIFIED",
 1: "OWNER",
 2: "WRITER",
 3: "READER",
 }
 Permission_Role_value = map[string]int32{
 "ROLE_UNSPECIFIED": 0,
 "OWNER": 1,
 "WRITER": 2,
 "READER": 3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state protoimpl.MessageState
 sizeCache protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
 `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this

```



```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
 return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
 return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
 return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,

```

0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,  
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,  
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,  
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,  
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,  
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,  
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,  
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0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
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0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
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0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
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0x64,  
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,  
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0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,  
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,  
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,  
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,  
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0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,  
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,  
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
 protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
 = []interface{} {
 (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
 (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
 }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
 google.ai.generativelanguage.v1beta.Permission.GrantType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
 google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
 }

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
}
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
 return
 }
 if !protoimpl.UnsafeEnabled {
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
 switch v := v.(*Permission); i {
 case 0:
 return &v.state
 case 1:

```

```

 return &v.sizeCache
case 2:
 return &v.unknownFields
default:
 return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{ }{ }
type x struct{ }
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
 GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
 RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
 NumEnums: 2,
 NumMessages: 1,
 NumExtensions: 0,
 NumServices: 0,
 },
 GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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```

```

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

package compute_test

import (
 "context"

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

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)

```

```

if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {

```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)

```



```

if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2024 Google LLC
//

```

```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
 struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete []gax.CallOption
 Get []gax.CallOption
 GetIamPolicy []gax.CallOption
 Insert []gax.CallOption
 List []gax.CallOption
 SetIamPolicy []gax.CallOption
 TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},

```

```

TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000
* time.Millisecond),
},
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.

```

```

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

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {

```

```

 return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
 return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultUniverseDomain("googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
 "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when

```

```

// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
 return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{ }
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
 resp := &compute.Operation{ }
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path

```



```

 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
 return err
 }

 if err := unmarshal(buf, resp); err != nil {
 return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return
 }
 err
}

return nil

```

```

 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
 opts ...gax.CallOption) (*computePolicy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
 req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{ "x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
 url.QueryEscape(req.GetResource())) }

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
 append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
 unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
 resp := &computePolicy{ }
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return
err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

params := url.Values{}
if req != nil && req.RequestId != nil {

```

```

params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery
= params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if
err := googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return err
 }

 return nil
}, opts...)

```

```

if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req
*computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{ }
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{ }
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{ }
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v",
req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {

```

```

params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e

```

```

 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =

```



```

append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{ AllowPartial: true}

```

```

body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := io.ReadAll(httpRsp.Body)

```

```

if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return
 nil, e
}
return resp, nil
}

```

# 1.881 opentelemetry-collector-pdata 1.0.0-rcv0016

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# 1.882 rancher v2.11.0

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## 1.883 @robot/pulse-lib 7.1.0-releasecnc710.2

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```
{"$schema":"../../node_modules/ng-packagr/ng-package.schema.json","dest":"../../infra-ui/src/assets/umd/pulse-lib","assets":["assets"],"lib":{"entryFile":"src/public-api.ts"},"allowedNonPeerDependencies":["."]}
```

## 1.884 urfave-cli v3.3.3

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Email domain: gmail.com

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 "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
 "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
 "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note><p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
 "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
 "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
 },
 "shapes": {
 "AccessDeniedException": {
 "base": "<p>You don't have sufficient access to perform this action.</p>",
 "refs": {
 }
 },
 "ActiveDirectoryIdentityProvider": {
 "base": "<p>Details about an Active Directory identity provider.</p>",
 "refs": {
 }
 }
 }
}
```

```

 "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity
provider.</p>"
 },
 "AssociateUserRequest": {
 "base": null,
 "refs": {
 }
 },
 "AssociateUserResponse": {
 "base": null,
 "refs": {
 }
 },
 "BoxInteger": {
 "base": null,
 "refs": {
 "ListIdentityProvidersRequest$MaxResults":
 "<p>Maximum number of results to return in a single call.</p>",
 "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
 "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
 "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
 }
 },
 "ConflictException": {
 "base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
 "refs": {
 }
 },
 "DeregisterIdentityProviderRequest": {
 "base": null,
 "refs": {
 }
 },
 "DeregisterIdentityProviderResponse": {
 "base": null,
 "refs": {
 }
 },
 "DisassociateUserRequest": {
 "base": null,
 "refs": {
 }
 },
 "DisassociateUserResponse": {
 "base": null,
 "refs": {
 }
 }
}

```

```

 }
 },
 "Filter": {
 "base": "<p>A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used
to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
 "refs": {
 "FilterList$member": null
 }
 },
 "FilterList": {
 "base": null,
 "refs": {
 "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that
match one or more sets of key-value pairs that you specify.</p>",
 "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value pairs that you specify.</p>",
 "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those
that match one or more sets of key-value pairs that you specify.</p>"
 }
 },
 "IdentityProvider": {
 "base": "<p>Details about an identity provider.</p>",
 "refs": {
 "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
 "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
 "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
 "RegisterIdentityProviderRequest$IdentityProvider":
 "<p>An object that specifies details for the identity provider.</p>",
 "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
 "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
 }
 },
 "IdentityProviderSummary": {
 "base": "<p>Describes an identity provider.</p>",

```

```

 "refs": {
 "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
 "IdentityProviderSummaryList$member": null,
 "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
 "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

 }
 },
 "IdentityProviderSummaryList": {
 "base": null,
 "refs": {
 "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity
providers operation.</p>"
 }
 },
 "InstanceSummary": {
 "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
 "refs": {
 "InstanceSummaryList$member": null
 }
 },
 "InstanceSummaryList": {
 "base": null,
 "refs": {
 "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
 }
 },
 "InstanceUserSummary": {
 "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
 "refs": {
 "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
 "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

 "InstanceUserSummaryList$member": null
 }
 },
 "InstanceUserSummaryList": {
 "base": null,
 "refs": {
 "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
 }
 },
 "InternalServerException": {

```

```

"base": "<p>An exception occurred with the service.</p>",
"refs": {
}
},
"ListIdentityProvidersRequest": {
"base": null,
"refs": {
}
},
"ListIdentityProvidersResponse": {
"base": null,
"refs": {
}
},
"ListInstancesRequest": {
"base": null,
"refs": {
}
},
"ListInstancesResponse": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsRequest": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListUserAssociationsRequest": {
"base": null,
"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": "<p>The summary of the user-based subscription products for a user.</p>",
"refs": {
"ProductUserSummaryList$member": null,

```

```

 "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>",
 "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>"
 }
},
"ProductUserSummaryList": {
 "base": null,
 "refs": {
 "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product
subscriptions operation.</p>"
 }
},
"RegisterIdentityProviderRequest": {
 "base": null,
 "refs": {
 }
},
"RegisterIdentityProviderResponse": {
 "base": null,
 "refs": {
 }
},
"ResourceNotFoundException":
{
 "base": "<p>The resource couldn't be found.</p>",
 "refs": {
 }
},
"SecurityGroup": {
 "base": null,
 "refs": {
 "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication
between resources in your VPC and the VPC endpoint for activation servers.</p>",
 "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
 }
},
"ServiceQuotaExceededException": {
 "base": "<p>The request failed because a service quota is exceeded.</p>",
 "refs": {
 }
},
"Settings": {
 "base": "<p>The registered identity providers product related configuration settings such as the subnets to
provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication

```



from resources in the VPC.</p>",

"refs": {  
  "IdentityProviderSummary\$Settings": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",

  "RegisterIdentityProviderRequest\$Settings": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"

  }  
,  
"SettingsSubnetsList": {  
  "base": null,  
  "refs": {  
    "Settings\$Subnets": "<p>The subnets defined for the registered identity provider.</p>"  
  }  
,  
"StartProductSubscriptionRequest": {

  "base": null,  
  "refs": {  
  }  
,  
"StartProductSubscriptionResponse": {

  "base": null,  
  "refs": {  
  }  
,  
"StopProductSubscriptionRequest": {

  "base": null,  
  "refs": {  
  }  
,  
"StopProductSubscriptionResponse": {

  "base": null,  
  "refs": {  
  }  
,  
"String":

{  
  "base": null,  
  "refs": {  
    "AccessDeniedException\$message": null,  
    "ActiveDirectoryIdentityProvider\$DirectoryId": "<p>The directory ID for an Active Directory identity provider.</p>",

    "AssociateUserRequest\$Domain": "<p>The domain name of the user.</p>",  
    "AssociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

    "AssociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",  
    "ConflictException\$message": null,  
    "DeregisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",  
    "DisassociateUserRequest\$Domain": "<p>The domain name of the user.</p>",

"DisassociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"DisassociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"Filter\$Attribute": "<p>The name of an attribute to use as a filter.</p>",

"Filter\$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",

"Filter\$Value": "<p>Value of the filter.</p>",

"IdentityProviderSummary\$FailureMessage": "<p>The failure message associated with an identity provider.</p>",

"IdentityProviderSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"IdentityProviderSummary\$Status": "<p>The status of an identity provider.</p>",

"InstanceSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceSummary\$LastStatusCheckDate": "<p>The date of the last status check.</p>",

"InstanceSummary\$Status": "<p>The status of an EC2 instance resource.</p>",

"InstanceSummary\$StatusMessage": "<p>The status message for an EC2 instance.</p>",

"InstanceUserSummary\$AssociationDate": "<p>The date a user was associated with an EC2 instance.</p>",

"InstanceUserSummary\$DisassociationDate": "<p>The date a user was disassociated from an EC2 instance.</p>",

"InstanceUserSummary\$Domain": "<p>The domain name of the user.</p>",

"InstanceUserSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceUserSummary\$Status": "<p>The status of a user associated with an EC2 instance.</p>",

"InstanceUserSummary\$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",

"InstanceUserSummary\$Username": "<p>The user name from the identity provider for the user.</p>",

"InternalServerException\$message": null,

"ListIdentityProvidersRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListIdentityProvidersResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ListProductSubscriptionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"ListUserAssociationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ProductUserSummary\$Domain": "<p>The domain name of the user.</p>",

"ProductUserSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"ProductUserSummary\$Status": "<p>The status of a product for a user.</p>",

"ProductUserSummary\$StatusMessage": "<p>The status message for a product for a user.</p>",

"ProductUserSummary\$SubscriptionEndDate": "<p>The end date of a subscription.</p>",

"ProductUserSummary\$SubscriptionStartDate": "<p>The start date of a subscription.</p>",

"ProductUserSummary\$Username": "<p>The user name from the identity provider of the user.</p>",

"RegisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",

```

"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
"StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
"StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StopProductSubscriptionRequest$Product":
"<p>The name of the user-based subscription product.</p>",
"StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": "<p>The name of the user-based subscription
product.</p>",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers.</p>",
"UpdateSettings$RemoveSubnets":
"<p>The ID of one or more subnets to remove.</p>"
}
},
"ThrottlingException": {
"base": "<p>The request was denied because of request throttling. Retry the request.</p>",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {
"base": null,
"refs": {
}
}

```

```

},
"UpdateIdentityProviderSettingsResponse": {
 "base": null,
 "refs": {
 }
},
"UpdateSettings": {
 "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints.</p>",
 "refs": {
 "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers
product related configuration settings. You can update any combination of settings in a single operation such as
the:</p> <p>Subnets which you want to add to provision VPC endpoints.</p> <p>Subnets
which you want to remove the VPC endpoints
from.</p> <p>Security group ID which permits traffic to the VPC endpoints.</p> "
 }
},
"ValidationException": {
 "base": "<p>A parameter is not valid.</p>",
 "refs": {
 }
}
}
{
 "version": "1.0",
 "parameters": {
 "Region": {
 "builtIn": "AWS::Region",
 "required": false,
 "documentation": "The AWS region used to dispatch the request.",
 "type": "String"
 },
 "UseDualStack": {
 "builtIn": "AWS::UseDualStack",
 "required": true,
 "default": false,
 "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
 "type": "Boolean"
 },
 "UseFIPS": {
 "builtIn": "AWS::UseFIPS",
 "required": true,
 "default": false,
 "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
 "type": "Boolean"
 }
 }
}

```

```

 },
 "Endpoint": {
 "builtIn": "SDK::Endpoint",
 "required": false,
 "documentation": "Override the endpoint used to send this request",
 "type": "String"
 }
 },
 "rules": [
 {
 "conditions": [
 {
 "fn": "aws.partition",
 "argv": [
 {
 "ref": "Region"
 }
],
 "assign": "PartitionResult"
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "isSet",
 "argv": [
 {
 "ref": "Endpoint"
 }
]
 }
],
 "fn": "parseURL",
 "argv": [
 {
 "ref": "Endpoint"
 }
],
 "assign": "url"
 }
],
 "type": "tree",
 "rules": [
 {

```

```

"conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
 "type": "error"
 },
 {
 "conditions": [],
 "endpoint": {
 "url": {
 "ref": "Endpoint"
 },
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
]

```

```

 },
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 }
]
 }
]
 },
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {

```

```

 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
},
"type": "tree",
"rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
],
{
 "conditions": [],
 "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
 "type": "error"
}
],
},
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseFIPS"
 },
 true
]
 }
],
 "type": "tree",
 "rules": [

```



```

{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsFIPS"
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
],
 {
 "conditions": [],
 "error": "FIPS is enabled but this partition does not support FIPS",
 "type": "error"
 }
],
{
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 {
 "ref": "UseDualStack"
 },
],

```

```

 true
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [
 {
 "fn": "booleanEquals",
 "argv": [
 true,
 {
 "fn": "getAttr",
 "argv": [
 {
 "ref": "PartitionResult"
 },
 "supportsDualStack"
]
 }
]
 }
]
 }
],
 "type": "tree",
 "rules": [
 {
 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
 "properties": {},

 "headers": {}
 },
 "type": "endpoint"
 }
],
 {
 "conditions": [],
 "error": "DualStack is enabled but this partition does not support DualStack",
 "type": "error"
 }
],
{

```

```

 "conditions": [],
 "endpoint": {
 "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
 "properties": {},
 "headers": {}
 },
 "type": "endpoint"
 }
]
}
{
 "version": "2.0",
 "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
 "operations": {
 "DeregisterSubscriptionProvider": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account.</p>",
 "GetRegisteredSubscriptionProvider": "<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your account.</p>",
 "GetServiceSettings": "<p>Lists the Linux subscriptions service settings for your account.</p>",
 "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions.</p>",
 "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
 "ListRegisteredSubscriptionProviders":
 "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
 "ListTagsForResource": "<p>List the metadata tags that are assigned to the specified Amazon Web Services resource.</p>",
 "RegisterSubscriptionProvider": "<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
 "TagResource": "<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
 "UntagResource": "<p>Remove one or more metadata tag from the specified Amazon Web Services resource.</p>",
 "UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
 },
 "shapes": {
 "Boolean": {
 "base": null,
 "refs": {
 "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
 }
 },
 "BoxInteger": {
 "base": null,

```

```

"refs": {
 "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>The maximum items to return in a request.</p>",
 "ListLinuxSubscriptionsRequest$MaxResults": "<p>The maximum items to return in a request.</p>"
},
"BoxLong": {
 "base": null,
 "refs": {
 "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
 }
},
"DeregisterSubscriptionProviderRequest": {
 "base": null,
 "refs": {
 }
},
"DeregisterSubscriptionProviderResponse": {
 "base": null,
 "refs": {
 }
},
"Filter": {
 "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
 "refs": {
 "FilterList$member": null
 }
},
"FilterList": {
 "base": null,
 "refs": {

```

"ListLinuxSubscriptionInstancesRequest\$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify `Region` in the `Name`, with the `contains` operator to list all subscriptions that match a partial string in the `Value`, such as `us-west`.</p> <p>For each filter, you can specify one of the following values for the `Name` key to streamline results:</p> <ul> <li><p> `AccountID` </p> </li> <li><p> `AmiID` </p> </li> <li><p> `DualSubscription` </p> </li> <li><p> `InstanceID` </p> </li> <li><p> `InstanceType` </p> </li> <li><p> `ProductCode` </p> </li> <li><p> `Region` </p> </li> <li><p> `Status` </p> </li> <li><p> `UsageOperation` </p> </li> </ul> <p>For each filter, you can use one of the following `Operator` values to define the behavior of the filter:</p> <ul> <li><p> `contains` </p> </li> <li><p> `equals` </p> </li> <li><p> `Notequal` </p> </li> </ul>",

"ListLinuxSubscriptionsRequest\$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of `Subscription` with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li><p>

```

<code>Subscription</code> </p> <p>The valid Operators for this filter are:</p> <p>
<code>contains</code> </p> <p> <code>equals</code> </p> <p> <code>NotEqual</code>
</p> "
 }
 },
 "GetRegisteredSubscriptionProviderRequest": {
 "base": null,
 "refs": {
 }
 },
 "GetRegisteredSubscriptionProviderResponse": {
 "base": null,
 "refs": {
 }
 },
 "GetServiceSettingsRequest": {
 "base": null,
 "refs": {
 }
 },
 "GetServiceSettingsResponse": {
 "base": null,
 "refs": {
 }
 },
 "Instance": {
 "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
 "refs": {
 "InstanceList$member": null
 }
 },
 "InstanceList": {
 "base": null,
 "refs": {
 "ListLinuxSubscriptionInstancesResponse$Instances": "<p>An array that contains instance objects.</p>"
 }
 },
 "InternalServerException": {
 "base": "<p>An exception occurred with the service.</p>",
 "refs": {
 }
 },
 "LinuxSubscriptionsDiscovery": {
 "base": null,
 "refs": {
 "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>",
 "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery":

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"<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
 "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
 },
 "LinuxSubscriptionsDiscoverySettings": {
 "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
 "refs": {
 "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>",
 "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>",
 "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined
for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which
Regions data will be aggregated from.</p>"
 }
 },
 "ListLinuxSubscriptionInstancesRequest": {
 "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
 "refs": {
 "ListLinuxSubscriptionInstancesRequestNextTokenString": {
 "base": null,
 "refs": {
 "ListLinuxSubscriptionInstancesRequest$NextToken": "<p>A token to specify where to start paginating. This is
the nextToken from a previously truncated response.</p>"
 }
 }
 }
 },
 "ListLinuxSubscriptionInstancesResponse": {
 "base": null,
 "refs": {
 "ListLinuxSubscriptionsRequest": {
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increases.</p>",
 "refs": {
 "ListLinuxSubscriptionsRequestNextTokenString": {
 "base": null,
 "refs": {
 "ListLinuxSubscriptionsRequest$NextToken": "<p>A token to specify where to start paginating. This is the

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nextToken from a previously truncated response.</p>"
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 "ListLinuxSubscriptionsResponse": {
 "base": null,
 "refs": {
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 "ListRegisteredSubscriptionProvidersRequest": {
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 "refs": {
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 "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
 "base": null,
 "refs": {
 "ListRegisteredSubscriptionProvidersRequest$MaxResults": "<p>The maximum items to return in a
request.</p>"
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 "ListRegisteredSubscriptionProvidersResponse": {
 "base": null,
 "refs": {
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 "ListTagsForResourceRequest": {
 "base": null,
 "refs": {
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 "ListTagsForResourceResponse": {
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 "refs": {
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 "Operator": {
 "base": null,
 "refs": {
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 "Filter$Operator": "<p>An operator for filtering results.</p>"
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 "OrganizationIntegration": {
 "base": null,
 "refs": {
 "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource
discovery across your accounts in Organizations.</p>"
 }
 }
}

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"ProductCodeList": {
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 "refs": {
 "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values in the <i>License Manager User Guide</i> .</p>"
 }
},
"RegisterSubscriptionProviderRequest": {
 "base": null,
 "refs": {
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},
"RegisterSubscriptionProviderResponse": {
 "base": null,
 "refs": {
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"RegisteredSubscriptionProvider": {
 "base": "<p>A third-party provider for operating system
(OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux
subscription provider, License Manager can get subscription data from the registered provider.</p>",
 "refs": {
 "RegisteredSubscriptionProviderList$member": null
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"RegisteredSubscriptionProviderList": {
 "base": null,
 "refs": {
 "ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": "<p>The list of BYOL
registration resources that fit the criteria you specified in the request.</p>"
 }
},
"ResourceNotFoundException": {
 "base": "<p>Unable to find the requested Amazon Web Services resource.</p>",
 "refs": {
 }
},
"SecretArn": {
 "base": null,
 "refs": {
 "GetRegisteredSubscriptionProviderResponse$SecretArn": "<p>The Amazon Resource Name (ARN) of the
third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the
request.</p>",
 "RegisterSubscriptionProviderRequest$SecretArn": "<p>The Amazon Resource Name (ARN) of the secret
where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red
Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>",

```



"RegisteredSubscriptionProvider\$SecretArn": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"

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 },
 "Status": {
 "base": null,
 "refs": {
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 "UpdateServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
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 "String": {
 "base": null,
 "refs": {
 "Filter$Name": "<p>The type of name to filter by.</p>",
 "GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": "<p>The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider.</p>",
 "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": "<p>The detailed message from your subscription provider token status.</p>",
 "Instance$AccountID": "<p>The account ID which owns the instance.</p>",
 "Instance$AmiId": "<p>The AMI ID used to launch the instance.</p>",
 "Instance$DualSubscription": "<p>Indicates that you have two different license subscriptions for the same software on your instance.</p>",
 "Instance$InstanceID": "<p>The instance ID of the resource.</p>",
 "Instance$InstanceType": "<p>The instance type of the resource.</p>",
 "Instance$LastUpdatedTime": "<p>The time in which the last discovery updated the instance details.</p>",
 "Instance$OsVersion":
 "<p>The operating system software version that runs on your instance.</p>",
 "Instance$Region": "<p>The Region the instance is running in.</p>",
 "Instance$RegisteredWithSubscriptionProvider": "<p>Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager.</p>",
 "Instance$Status": "<p>The status of the instance.</p>",
 "Instance$SubscriptionName": "<p>The name of the license subscription that the instance uses.</p>",
 "Instance$SubscriptionProviderCreateTime": "<p>The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses.</p>",
 "Instance$SubscriptionProviderUpdateTime": "<p>The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider.</p>",
 "Instance$UsageOperation": "<p>The usage operation of the instance. For more information, see For more information, see Usage operation values in the <i>License Manager User Guide</i>.</p>",
 "InternalServerException$message": null,
 "ListLinuxSubscriptionInstancesResponse$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this
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token with the next request to retrieve additional objects.</p>",

"ListLinuxSubscriptionsResponse\$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>",

"ListRegisteredSubscriptionProvidersRequest\$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>",

"ListRegisteredSubscriptionProvidersResponse\$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>",

"ProductCodeList\$member": null,

"RegisterSubscriptionProviderResponse\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",

"RegisteredSubscriptionProvider\$LastSuccessfulDataRetrievalTime": "<p>The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatusMessage": "<p>A detailed message that's associated with your BYOL subscription provider token status.</p>",

"ResourceNotFoundException\$message":  
null,

"StringMap\$key": null,

"StringMap\$value": null,

"Subscription\$Name": "<p>The name of the subscription.</p>",

"Subscription\$Type": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>",

"TagKeyList\$member": null,

"Tags\$key": null,

"Tags\$value": null,

"ThrottlingException\$message": null,

"ValidationException\$message": null

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"StringList": {

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"refs": {

"Filter\$Values": "<p>One or more values for the name to filter by.</p>",

"GetServiceSettingsResponse\$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>",

"LinuxSubscriptionsDiscoverySettings\$SourceRegions":

<p>The Regions in which to discover data for Linux subscriptions.</p>",

"UpdateServiceSettingsResponse\$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>"

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"StringListMemberString": {

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 "UpdateServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>"
 }
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 "Subscription": {
 "base": "<p>An object which details a discovered Linux subscription.</p>",
 "refs": {
 "SubscriptionList$member": null
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 "SubscriptionList": {
 "base": null,
 "refs": {
 "ListLinuxSubscriptionsResponse$Subscriptions":
 "<p>An array that contains subscription objects.</p>"
 }
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 "SubscriptionProviderArn": {
 "base": null,
 "refs": {
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 "GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
 "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request.</p>",
 "ListTagsForResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the resource for which to list metadata tags.</p>",
 "RegisteredSubscriptionProvider$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",
 "TagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags.</p>",
 "UntagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>"
 }
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 "SubscriptionProviderSource": {
 "base": null,
 "refs": {

```

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The subscription provider for the BYOL registration resource specified in the request.</p>",

"RegisterSubscriptionProviderRequest\$SubscriptionProviderSource": "<p>The supported Linux subscription provider to register.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The Linux subscription provider that you registered.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderSource": "<p>A supported third-party Linux subscription provider. License Manager currently supports Red Hat subscriptions.</p>",

"SubscriptionProviderSourceList\$member": null

}

},

"SubscriptionProviderSourceList": {

"base": null,

"refs": {

"ListRegisteredSubscriptionProvidersRequest\$SubscriptionProviderSources": "<p>To filter your results, specify which subscription providers to return in the list.</p>"

}

},

"SubscriptionProviderStatus": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>The status of the Linux subscription provider access token from the last successful subscription data request.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>Indicates the status of the registration action for the Linux subscription provider that you requested.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatus": "<p>Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token.</p>"

}

},

"TagKeyList": {

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"UntagResourceRequest\$tagKeys": "<p>A list of metadata tag keys to remove from the requested resource.</p>"

}

},

"TagResourceRequest": {

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"refs": {

}

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"TagResourceResponse": {

"base": null,

"refs": {

}

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"Tags": {
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 "ListTagsForResourceResponse$tags": "<p>The metadata tags for the requested resource.</p>",
 "RegisterSubscriptionProviderRequest$Tags": "<p>The metadata tags to assign to your registered Linux
subscription provider resource.</p>",
 "TagResourceRequest$tags": "<p>The metadata tags to assign to the Amazon Web Services resource. Tags are
formatted as key value pairs.</p>"
 }
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"ThrottlingException": {
 "base": "<p>The request was denied due to request throttling.</p>",
 "refs": {
 }
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"UntagResourceRequest": {
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"UntagResourceResponse": {
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 "refs": {
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 "base": null,
 "refs": {
 }
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"UpdateServiceSettingsResponse": {
 "base": null,
 "refs": {
 }
},
"ValidationException": {
 "base": "<p>The provided input is not valid. Try your request again.</p>",
 "refs": {
 }
}
}
}

```

AWS SDK for Go

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"metadata":{
 "apiVersion":"2018-08-01",
 "endpointPrefix":"license-manager",
 "jsonVersion":"1.1",
 "protocol":"json",
 "serviceFullName":"AWS License Manager",
 "serviceId":"License Manager",
 "signatureVersion":"v4",
 "targetPrefix":"AWSLicenseManager",
 "uid":"license-manager-2018-08-01"
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"operations":{
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 "http": {
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 "output": { "shape": "CreateLicenseManagerReportGeneratorResponse" },
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 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
}

```

```

]
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 "http": {
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 "input": { "shape": "ListAssociationsForLicenseConfigurationRequest" },
 "output": { "shape": "ListAssociationsForLicenseConfigurationResponse" },
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 { "shape": "ServerInternalException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" }
]
 },
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 "output": { "shape": "ListDistributedGrantsResponse" },
 "errors": [
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 { "shape": "ResourceLimitExceededException" },
 { "shape": "ServerInternalException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" }
]
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 "requestUri": "/"
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 "output": { "shape": "ListFailuresForLicenseConfigurationOperationsResponse" },
 "errors": [
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 { "shape": "ServerInternalException" },

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```

 {"shape":"AuthorizationException"},
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 {"shape":"RateLimitExceededException"}
]
},
"ListLicenseConfigurations":{
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 "requestUri":"/"
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 "output":{"shape":"ListLicenseConfigurationsResponse"},
 "errors":[
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 {"shape":"ServerInternalException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
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 "http":{
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 "requestUri":"/"
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 "output":{"shape":"ListLicenseConversionTasksResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListLicenseManagerReportGenerators":{
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 "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
 "errors":[
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 {"shape":"InvalidParameterValueException"},
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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"}
]
},
"ListLicenseSpecificationsForResource":{
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 "http":{
 "method":"POST",
 "requestUri":"/"
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 "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
 "errors":[
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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
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 "requestUri":"/"
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 "output":{"shape":"ListLicenseVersionsResponse"},
 "errors":[
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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
]
},
"ListLicenses":{
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 "method":"POST",
 "requestUri":"/"
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"output":{"shape":"ListLicensesResponse"},
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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
]
},
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 "requestUri":"/"
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 "output":{"shape":"ListReceivedGrantsResponse"},
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 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListReceivedGrantsForOrganization":{"
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 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
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 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListReceivedLicenses":{"

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},
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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
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 "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
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 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListResourceInventory":{
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 "requestUri":"/"
 },
 "input":{"shape":"ListResourceInventoryRequest"},
 "output":{"shape":"ListResourceInventoryResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"FailedDependencyException"},

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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListTagsForResource":{
 "name":"ListTagsForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListTagsForResourceRequest"},
 "output":{"shape":"ListTagsForResourceResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"ListTokens":{
 "name":"ListTokens",
 "http":{
 "method":"POST",

"requestUri":"/"
 },
 "input":{"shape":"ListTokensRequest"},
 "output":{"shape":"ListTokensResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
 "name":"ListUsageForLicenseConfiguration",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
 "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},

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 {"shape":"FilterLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"RejectGrant":{
 "name":"RejectGrant",
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 "method":"POST",
 "requestUri":"/"
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 "input":{"shape":"RejectGrantRequest"},
 "output":{"shape":"RejectGrantResponse"},
 "errors":[
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 {"shape":"InvalidParameterValueException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"}
]
},
"TagResource":{
 "name":"TagResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"TagResourceRequest"},
 "output":{"shape":"TagResourceResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"UntagResource":{
 "name":"UntagResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
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```

"output":{"shape":"UntagResourceResponse"},
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 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
]
},
"UpdateLicenseConfiguration":{
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 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateLicenseConfigurationRequest"},
 "output":{"shape":"UpdateLicenseConfigurationResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ResourceLimitExceededException"}
]
},
"UpdateLicenseManagerReportGenerator":{
 "name":"UpdateLicenseManagerReportGenerator",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
 "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
 "errors":[
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 {"shape":"InvalidParameterValueException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"ResourceLimitExceededException"}
]
},
"UpdateLicenseSpecificationsForResource":{
 "name":"UpdateLicenseSpecificationsForResource",
 "http":{

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```

 "method": "POST",
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 },
 "input": { "shape": "UpdateLicenseSpecificationsForResourceRequest" },
 "output": { "shape": "UpdateLicenseSpecificationsForResourceResponse" },
 "errors": [
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 { "shape": "LicenseUsageException" },
 { "shape": "ServerInternalException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" }
]
},
"UpdateServiceSettings": {
 "name": "UpdateServiceSettings",
 "http": {
 "method": "POST",
 "requestUri": "/"
 },
 "input": { "shape": "UpdateServiceSettingsRequest" },
 "output": { "shape": "UpdateServiceSettingsResponse" },
 "errors": [
 { "shape": "InvalidParameterValueException" },
 { "shape": "ServerInternalException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" }
]
}
},
"shapes": {
 "AcceptGrantRequest": {
 "type": "structure",
 "required": ["GrantArn"],
 "members": {
 "GrantArn": { "shape": "Arn" }
 }
 },
 "AcceptGrantResponse": {
 "type": "structure",
 "members": {
 "GrantArn": { "shape": "Arn" },
 "Status": { "shape": "GrantStatus" },
 "Version": { "shape": "String" }
 }
 }
}

```



```

},
"AccessDeniedException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"ActivationOverrideBehavior":{
 "type":"string",
 "enum":[
 "DISTRIBUTED_GRANTS_ONLY",
 "ALL_GRANTS_PERMITTED_BY_ISSUER"
]
},
"AllowedOperation":{
 "type":"string",
 "enum":[
 "CreateGrant",
 "CheckoutLicense",
 "CheckoutBorrowLicense",
 "CheckInLicense",
 "ExtendConsumptionLicense",
 "ListPurchasedLicenses",
 "CreateToken"
]
},
"AllowedOperationList":{
 "type":"list",
 "member":{"shape":"AllowedOperation"},
 "max":7,
 "min":1
},
"Arn":{
 "type":"string",
 "max":2048,
 "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/_+=,@.-]{0,1023}$"
},
"ArnList":{
 "type":"list",
 "member":{"shape":"Arn"}
},
"AuthorizationException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },

```

```

 "exception":true
 },
 "AutomatedDiscoveryInformation":{
 "type":"structure",
 "members":{
 "LastRunTime":{"shape":"DateTime"}
 }
 },
 "Boolean":{"type":"boolean"},
 "BorrowConfiguration":{
 "type":"structure",
 "required":[
 "AllowEarlyCheckIn",
 "MaxTimeToLiveInMinutes"
],
 "members":{
 "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
 "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
 }
 },
 "BoxBoolean":{"type":"boolean"},
 "BoxInteger":{"type":"integer"},
 "BoxLong":{"type":"long"},
 "CheckInLicenseRequest":{
 "type":"structure",
 "required":["LicenseConsumptionToken"],
 "members":{
 "LicenseConsumptionToken":{"shape":"String"},
 "Beneficiary":{"shape":"String"}
 }
 },
 "CheckInLicenseResponse":{
 "type":"structure",
 "members":{
 }
 },
 "CheckoutBorrowLicenseRequest":{
 "type":"structure",
 "required":[
 "LicenseArn",
 "Entitlements",
 "DigitalSignatureMethod",
 "ClientToken"
],
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "Entitlements":{"shape":"EntitlementDataList"},
 "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},

```

```

 "NodeId":{"shape":"String"},
 "CheckoutMetadata":{"shape":"MetadataList"},
 "ClientToken":{"shape":"ClientToken"}
 }
},

"CheckoutBorrowLicenseResponse":{
 "type":"structure",
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "LicenseConsumptionToken":{"shape":"String"},
 "EntitlementsAllowed":{"shape":"EntitlementDataList"},
 "NodeId":{"shape":"String"},
 "SignedToken":{"shape":"SignedToken"},
 "IssuedAt":{"shape":"ISO8601DateTime"},
 "Expiration":{"shape":"ISO8601DateTime"},
 "CheckoutMetadata":{"shape":"MetadataList"}
 }
},

"CheckoutLicenseRequest":{
 "type":"structure",
 "required":[
 "ProductSKU",
 "CheckoutType",
 "KeyFingerprint",
 "Entitlements",
 "ClientToken"
],
 "members":{
 "ProductSKU":{"shape":"String"},
 "CheckoutType":{"shape":"CheckoutType"},
 "KeyFingerprint":{"shape":"String"},
 "Entitlements":{"shape":"EntitlementDataList"},
 "ClientToken":{"shape":"ClientToken"},
 "Beneficiary":{"shape":"String"},
 "NodeId":{"shape":"String"}
 }
},

"CheckoutLicenseResponse":{
 "type":"structure",
 "members":{
 "CheckoutType":{"shape":"CheckoutType"},
 "LicenseConsumptionToken":{"shape":"String"},
 "EntitlementsAllowed":{"shape":"EntitlementDataList"},
 "SignedToken":{"shape":"SignedToken"},
 "NodeId":{"shape":"String"},
 "IssuedAt":{"shape":"ISO8601DateTime"},
 "Expiration":{"shape":"ISO8601DateTime"},

```

```

 "LicenseArn":{"shape":"String"}
 }
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"CheckoutType":{
 "type":"string",
 "enum":[
 "PROVISIONAL",
 "PERPETUAL"
]
},
"ClientRequestToken":{
 "type":"string",
 "max":36,
 "min":1
},
"ClientToken":{
 "type":"string",
 "max":2048,
 "pattern":"\\S+"
},
"ConflictException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"ConsumedLicenseSummary":{
 "type":"structure",
 "members":{
 "ResourceType":{"shape":"ResourceType"},
 "ConsumedLicenses":{"shape":"BoxLong"}
 }
},
"ConsumedLicenseSummaryList":{
 "type":"list",
 "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
 "type":"structure",
 "members":{
 "RenewType":{"shape":"RenewType"},
 "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
 "BorrowConfiguration":{"shape":"BorrowConfiguration"}
 }
},
"CreateGrantRequest":{
 "type":"structure",

```

```

"required":[
 "ClientToken",
 "GrantName",
 "LicenseArn",
 "Principals",
 "HomeRegion",
 "AllowedOperations"
],
"members":{
 "ClientToken":{"shape":"ClientToken"},
 "GrantName":{"shape":"String"},
 "LicenseArn":{"shape":"Arn"},
 "Principals":{"shape":"PrincipalArnList"},
 "HomeRegion":{"shape":"String"},
 "AllowedOperations":{"shape":"AllowedOperationList"}
}
},
"CreateGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{"shape":"Arn"},
 "Status":{"shape":"GrantStatus"},
 "Version":{"shape":"String"}
 }
},
"CreateGrantVersionRequest":{
 "type":"structure",
 "required":[
 "ClientToken",
 "GrantArn"
],
 "members":{
 "ClientToken":{"shape":"ClientToken"},
 "GrantArn":{"shape":"Arn"},
 "GrantName":{"shape":"String"},
 "AllowedOperations":{"shape":"AllowedOperationList"},
 "Status":{"shape":"GrantStatus"},
 "StatusReason":{"shape":"StatusReasonMessage"},
 "SourceVersion":{"shape":"String"},
 "Options":{"shape":"Options"}
 }
},
"CreateGrantVersionResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{"shape":"Arn"},
 "Status":{"shape":"GrantStatus"},
 "Version":{"shape":"String"}
 }
}

```

```

 }
 },
 "CreateLicenseConfigurationRequest": {
 "type": "structure",
 "required": [
 "Name",
 "LicenseCountingType"
],
 "members": {
 "Name": { "shape": "String" },
 "Description": { "shape": "String" },
 "LicenseCountingType": { "shape": "LicenseCountingType" },
 "LicenseCount": { "shape": "BoxLong" },
 "LicenseCountHardLimit": { "shape": "BoxBoolean" },
 "LicenseRules": { "shape": "StringList" },
 "Tags": { "shape": "TagList" },
 "DisassociateWhenNotFound": { "shape": "BoxBoolean" },
 "ProductInformationList": { "shape": "ProductInformationList" }
 }
 },
 "CreateLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationArn": { "shape": "String" }
 }
 },
 "CreateLicenseConversionTaskForResourceRequest": {
 "type": "structure",
 "required": [
 "ResourceArn",
 "SourceLicenseContext",
 "DestinationLicenseContext"
],
 "members": {
 "ResourceArn": { "shape": "Arn" },
 "SourceLicenseContext": { "shape": "LicenseConversionContext" },
 "DestinationLicenseContext": { "shape": "LicenseConversionContext" }
 }
 },
 "CreateLicenseConversionTaskForResourceResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": { "shape": "LicenseConversionTaskId" }
 }
 },
 "CreateLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "required": [

```

```

 "ReportGeneratorName",
 "Type",
 "ReportContext",
 "ReportFrequency",
 "ClientToken"
],
 "members":{
 "ReportGeneratorName":{"shape":"ReportGeneratorName"},
 "Type":{"shape":"ReportTypeList"},
 "ReportContext":{"shape":"ReportContext"},
 "ReportFrequency":{"shape":"ReportFrequency"},
 "ClientToken":{"shape":"ClientRequestToken"},
 "Description":{"shape":"String"},
 "Tags":{"shape":"TagList"}
 }
},
"CreateLicenseManagerReportGeneratorResponse":{
 "type":"structure",
 "members":{
 "LicenseManagerReportGeneratorArn":{"shape":"String"}
 }
},
"CreateLicenseRequest":{
 "type":"structure",
 "required":[
 "LicenseName",
 "ProductName",
 "ProductSKU",
 "Issuer",
 "HomeRegion",
 "Validity",
 "Entitlements",
 "Beneficiary",
 "ConsumptionConfiguration",
 "ClientToken"
],
 "members":{
 "LicenseName":{"shape":"String"},
 "ProductName":{"shape":"String"},
 "ProductSKU":{"shape":"String"},
 "Issuer":{"shape":"Issuer"},
 "HomeRegion":{"shape":"String"},
 "Validity":{"shape":"DatetimeRange"},
 "Entitlements":{"shape":"EntitlementList"},
 "Beneficiary":{"shape":"String"},
 "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
 "LicenseMetadata":{"shape":"MetadataList"},
 "ClientToken":{"shape":"ClientToken"}
 }
}

```

```

}
},
"CreateLicenseResponse":{
 "type":"structure",
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "Status":{"shape":"LicenseStatus"},
 "Version":{"shape":"String"}
 }
},
"CreateLicenseVersionRequest":{
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 "required":[
 "LicenseArn",
 "LicenseName",
 "ProductName",
 "Issuer",
 "HomeRegion",
 "Validity",
 "Entitlements",
 "ConsumptionConfiguration",
 "Status",
 "ClientToken"
],
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "LicenseName":{"shape":"String"},
 "ProductName":{"shape":"String"},
 "Issuer":{"shape":"Issuer"},
 "HomeRegion":{"shape":"String"},
 "Validity":{"shape":"DatetimeRange"},
 "LicenseMetadata":{"shape":"MetadataList"},
 "Entitlements":{"shape":"EntitlementList"},
 "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
 "Status":{"shape":"LicenseStatus"},
 "ClientToken":{"shape":"ClientToken"},
 "SourceVersion":{"shape":"String"}
 }
},
"CreateLicenseVersionResponse":{
 "type":"structure",
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "Version":{"shape":"String"},
 "Status":{"shape":"LicenseStatus"}
 }
},

```



```

"CreateTokenRequest":{
 "type":"structure",
 "required":[
 "LicenseArn",
 "ClientToken"
],
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "RoleArns":{"shape":"ArnList"},
 "ExpirationInDays":{"shape":"Integer"},
 "TokenProperties":{"shape":"MaxSize3StringList"},
 "ClientToken":{"shape":"ClientToken"}
 }
},
"CreateTokenResponse":{
 "type":"structure",
 "members":{
 "TokenId":{"shape":"String"},
 "TokenType":{"shape":"TokenType"},
 "Token":{"shape":"TokenString"}
 }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{

"type":"structure",
 "required":["Begin"],
 "members":{
 "Begin":{"shape":"ISO8601DateTime"},
 "End":{"shape":"ISO8601DateTime"}
 }
},
>DeleteGrantRequest":{
 "type":"structure",
 "required":[
 "GrantArn",
 "Version"
],
 "members":{
 "GrantArn":{"shape":"Arn"},
 "StatusReason":{"shape":"StatusReasonMessage"},
 "Version":{"shape":"String"}
 }
},
>DeleteGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{"shape":"Arn"},

```

```

 "Status":{"shape":"GrantStatus"},
 "Version":{"shape":"String"}
 }
},
"DeleteLicenseConfigurationRequest":{"
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{"
 "LicenseConfigurationArn":{"shape":"String"}
 }
},
"DeleteLicenseConfigurationResponse":{"
 "type":"structure",
 "members":{"
 }
},
"DeleteLicenseManagerReportGeneratorRequest":{"
 "type":"structure",
 "required":["LicenseManagerReportGeneratorArn"],
 "members":{"
 "LicenseManagerReportGeneratorArn":{"shape":"String"}
 }
},
"DeleteLicenseManagerReportGeneratorResponse":{"
 "type":"structure",
 "members":{"
 }
},
"DeleteLicenseRequest":{"
 "type":"structure",
 "required":[
 "LicenseArn",
 "SourceVersion"
],
 "members":{"
 "LicenseArn":{"shape":"Arn"},
 "SourceVersion":{"shape":"String"}
 }
},
"DeleteLicenseResponse":{"
 "type":"structure",
 "members":{"
 "Status":{"shape":"LicenseDeletionStatus"},
 "DeletionDate":{"shape":"ISO8601DateTime"}
 }
},
"DeleteTokenRequest":{"
 "type":"structure",

```

```

 "required":["TokenId"],
 "members":{
 "TokenId":{"shape":"String"}
 }
 },
 "DeleteTokenResponse":{
 "type":"structure",
 "members":{
 }
 },
 "DigitalSignatureMethod":{

 "type":"string",
 "enum":["JWT_PS384"]
 },
 "Entitlement":{
 "type":"structure",
 "required":[
 "Name",
 "Unit"
],
 "members":{
 "Name":{"shape":"String"},
 "Value":{"shape":"String"},
 "MaxCount":{"shape":"Long"},
 "Overage":{"shape":"BoxBoolean"},
 "Unit":{"shape":"EntitlementUnit"},
 "AllowCheckIn":{"shape":"BoxBoolean"}
 }
 },
 "EntitlementData":{
 "type":"structure",
 "required":[
 "Name",
 "Unit"
],
 "members":{
 "Name":{"shape":"String"},
 "Value":{"shape":"String"},
 "Unit":{"shape":"EntitlementDataUnit"}
 }
 },
 "EntitlementDataList":{
 "type":"list",
 "member":{"shape":"EntitlementData"}
 },
 "EntitlementDataUnit":{
 "type":"string",

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```

"enum":[
 "Count",
 "None",
 "Seconds",
 "Microseconds",
 "Milliseconds",
 "Bytes",
 "Kilobytes",

 "Megabytes",
 "Gigabytes",
 "Terabytes",
 "Bits",
 "Kilobits",
 "Megabits",
 "Gigabits",
 "Terabits",
 "Percent",
 "Bytes/Second",
 "Kilobytes/Second",
 "Megabytes/Second",
 "Gigabytes/Second",
 "Terabytes/Second",
 "Bits/Second",
 "Kilobits/Second",
 "Megabits/Second",
 "Gigabits/Second",
 "Terabits/Second",
 "Count/Second"
]
},
"EntitlementList":{
 "type":"list",
 "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"EntitlementUnit":{
 "type":"string",
 "enum":[
 "Count",
 "None",
 "Seconds",

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```

 "Microseconds",
 "Milliseconds",
 "Bytes",
 "Kilobytes",
 "Megabytes",
 "Gigabytes",
 "Terabytes",

 "Bits",
 "Kilobits",
 "Megabits",
 "Gigabits",
 "Terabits",
 "Percent",
 "Bytes/Second",
 "Kilobytes/Second",
 "Megabytes/Second",
 "Gigabytes/Second",
 "Terabytes/Second",
 "Bits/Second",
 "Kilobits/Second",
 "Megabits/Second",
 "Gigabits/Second",
 "Terabits/Second",
 "Count/Second"
]
},
"EntitlementUsage":{
 "type":"structure",
 "required":[
 "Name",
 "ConsumedValue",
 "Unit"
],
 "members":{
 "Name":{"shape":"String"},
 "ConsumedValue":{"shape":"String"},
 "MaxCount":{"shape":"String"},
 "Unit":{"shape":"EntitlementDataUnit"}
 }
},
"EntitlementUsageList":{
 "type":"list",
 "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
 "type":"structure",
 "required":["LicenseConsumptionToken"],

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"members":{
 "LicenseConsumptionToken":{"shape":"String"},
 "DryRun":{"shape":"Boolean"}
}
},
"ExtendLicenseConsumptionResponse":{
 "type":"structure",
 "members":{
 "LicenseConsumptionToken":{"shape":"String"},
 "Expiration":{"shape":"ISO8601DateTime"}
 }
},
"FailedDependencyException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"},
 "ErrorCode":{"shape":"String"}
 },
 "exception":true
},
"Filter":{
 "type":"structure",
 "members":{
 "Name":{"shape":"FilterName"},
 "Values":{"shape":"FilterValues"}
 }
},
"FilterLimitExceededException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"FilterList":{
 "type":"list",
 "member":{"shape":"Filter"}
},
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"FilterValue":{"type":"string"},
"FilterValues":{
 "type":"list",
 "member":{"shape":"FilterValue"}
},
"Filters":{
 "type":"list",
 "member":{"shape":"Filter"}
},

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"GetAccessTokenRequest":{
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 "required":["Token"],
 "members":{
 "Token":{"shape":"TokenString"},
 "TokenProperties":{"shape":"MaxSize3StringList"}
 }
},
"GetAccessTokenResponse":{
 "type":"structure",
 "members":{
 "AccessToken":{"shape":"TokenString"}
 }
},
"GetGrantRequest":{
 "type":"structure",
 "required":["GrantArn"],
 "members":{
 "GrantArn":{"shape":"Arn"},
 "Version":{"shape":"String"}
 }
},
"GetGrantResponse":{
 "type":"structure",
 "members":{
 "Grant":{"shape":"Grant"}
 }
},
"GetLicenseConfigurationRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{"shape":"String"}
 }
},
"GetLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 "LicenseConfigurationId":{"shape":"String"},
 "LicenseConfigurationArn":{"shape":"String"},
 "Name":{"shape":"String"},
 "Description":{"shape":"String"},
 "LicenseCountingType":{"shape":"LicenseCountingType"},
 "LicenseRules":{"shape":"StringList"},
 "LicenseCount":{"shape":"BoxLong"},
 "LicenseCountHardLimit":{"shape":"BoxBoolean"},
 "ConsumedLicenses":{"shape":"BoxLong"},
 "Status":{"shape":"String"},

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"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{"
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 "members":{"
 "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
 }
},
"GetLicenseConversionTaskResponse":{"
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 "members":{"
 "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
 "ResourceArn":{"shape":"String"},
 "SourceLicenseContext":{"shape":"LicenseConversionContext"},
 "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
 "StatusMessage":{"shape":"String"},
 "Status":{"shape":"LicenseConversionTaskStatus"},
 "StartTime":{"shape":"DateTime"},
 "LicenseConversionTime":{"shape":"DateTime"},
 "EndTime":{"shape":"DateTime"}
 }
},
"GetLicenseManagerReportGeneratorRequest":{"
 "type":"structure",
 "required":["LicenseManagerReportGeneratorArn"],
 "members":{"
 "LicenseManagerReportGeneratorArn":{"shape":"String"}
 }
},
"GetLicenseManagerReportGeneratorResponse":{"
 "type":"structure",
 "members":{"
 "ReportGenerator":{"shape":"ReportGenerator"}
 }
},
"GetLicenseRequest":{"
 "type":"structure",
 "required":["LicenseArn"],
 "members":{"
 "LicenseArn":{"shape":"Arn"},

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 "Version":{"shape":"String"}
 }
},
"GetLicenseResponse":{
 "type":"structure",
 "members":{
 "License":{"shape":"License"}
 }
},
"GetLicenseUsageRequest":{
 "type":"structure",
 "required":["LicenseArn"],
 "members":{
 "LicenseArn":{"shape":"Arn"}
 }
},
"GetLicenseUsageResponse":{
 "type":"structure",
 "members":{
 "LicenseUsage":{"shape":"LicenseUsage"}
 }
},
"GetServiceSettingsRequest":{
 "type":"structure",
 "members":{
 }
},
"GetServiceSettingsResponse":{
 "type":"structure",
 "members":{
 "S3BucketArn":{"shape":"String"},
 "SnsTopicArn":{"shape":"String"},
 "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
 "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
 "LicenseManagerResourceShareArn":{"shape":"String"}
 }
},
"Grant":{
 "type":"structure",
 "required":[
 "GrantArn",
 "GrantName",
 "ParentArn",
 "LicenseArn",
 "GranteePrincipalArn",
 "HomeRegion",
 "GrantStatus",
 "Version",

```

```

 "GrantedOperations"
],
 "members":{
 "GrantArn":{"shape":"Arn"},
 "GrantName":{"shape":"String"},
 "ParentArn":{"shape":"Arn"},
 "LicenseArn":{"shape":"Arn"},
 "GranteePrincipalArn":{"shape":"Arn"},
 "HomeRegion":{"shape":"String"},
 "GrantStatus":{"shape":"GrantStatus"},
 "StatusReason":{"shape":"StatusReasonMessage"},
 "Version":{"shape":"String"},
 "GrantedOperations":{"shape":"AllowedOperationList"},
 "Options":{"shape":"Options"}
 }
},
"GrantList":{
 "type":"list",
 "member":{"shape":"Grant"}
},
"GrantStatus":{
 "type":"string",
 "enum":[
 "PENDING_WORKFLOW",
 "PENDING_ACCEPT",
 "REJECTED",
 "ACTIVE",
 "FAILED_WORKFLOW",
 "DELETED",
 "PENDING_DELETE",
 "DISABLED",
 "WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
 "type":"structure",
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "LicenseName":{"shape":"String"},
 "ProductName":{"shape":"String"},
 "ProductSKU":{"shape":"String"},
 "Issuer":{"shape":"IssuerDetails"},
 "HomeRegion":{"shape":"String"},
 "Status":{"shape":"LicenseStatus"},
 "Validity":{"shape":"DatetimeRange"},
 "Beneficiary":{"shape":"String"},
 "Entitlements":{"shape":"EntitlementList"},
 "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

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"LicenseMetadata":{"shape":"MetadataList"},
 "CreateTime":{"shape":"ISO8601DateTime"},
 "Version":{"shape":"String"},
 "ReceivedMetadata":{"shape":"ReceivedMetadata"}
},
"GrantedLicenseList":{
 "type":"list",
 "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
 "type":"string",
 "max":50,
 "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2)[0-9]T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]{1,9})?)?(Z|([+-])(?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true,
 "synthetic":true
},
"InvalidResourceStateException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"InventoryFilter":{
 "type":"structure",
 "required":[
 "Name",
 "Condition"
],
 "members":{
 "Name":{"shape":"String"},
 "Condition":{"shape":"InventoryFilterCondition"},
 "Value":{"shape":"String"}
 }
},
"InventoryFilterCondition":{
 "type":"string",
 "enum":[

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 "EQUALS",
 "NOT_EQUALS",
 "BEGINS_WITH",
 "CONTAINS"
]
},
"InventoryFilterList":{
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 "member":{"shape":"InventoryFilter"}
},
"Issuer":{
 "type":"structure",
 "required":["Name"],
 "members":{
 "Name":{"shape":"String"},
 "SignKey":{"shape":"String"}
 }
},
"IssuerDetails":{
 "type":"structure",
 "members":{
 "Name":{"shape":"String"},
 "SignKey":{"shape":"String"},
 "KeyFingerprint":{"shape":"String"}
 }
},
"License":{
 "type":"structure",
 "members":{
 "LicenseArn":{"shape":"Arn"},
 "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
 "ProductSKU":{"shape":"String"},
 "Issuer":{"shape":"IssuerDetails"},
 "HomeRegion":{"shape":"String"},
 "Status":{"shape":"LicenseStatus"},
 "Validity":{"shape":"DatetimeRange"},
 "Beneficiary":{"shape":"String"},
 "Entitlements":{"shape":"EntitlementList"},
 "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
 "LicenseMetadata":{"shape":"MetadataList"},
 "CreateTime":{"shape":"ISO8601DateTime"},
 "Version":{"shape":"String"}
 }
},
"LicenseConfiguration":{
 "type":"structure",

```

```

"members":{
 "LicenseConfigurationId":{"shape":"String"},
 "LicenseConfigurationArn":{"shape":"String"},
 "Name":{"shape":"String"},
 "Description":{"shape":"String"},
 "LicenseCountingType":{"shape":"LicenseCountingType"},
 "LicenseRules":{"shape":"StringList"},
 "LicenseCount":{"shape":"BoxLong"},
 "LicenseCountHardLimit":{"shape":"BoxBoolean"},
 "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
 "ConsumedLicenses":{"shape":"BoxLong"},
 "Status":{"shape":"String"},
 "OwnerAccountId":{"shape":"String"},
 "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
 "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
 "ProductInformationList":{"shape":"ProductInformationList"},
 "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
}
},
"LicenseConfigurationAssociation":{
 "type":"structure",
 "members":{
 "ResourceArn":{"shape":"String"},
 "ResourceType":{"shape":"ResourceType"},
 "ResourceOwnerId":{"shape":"String"},
 "AssociationTime":{"shape":"DateTime"},
 "AmiAssociationScope":{"shape":"String"}
 }
},
"LicenseConfigurationAssociations":{
 "type":"list",
 "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
 "type":"string",
 "enum":[
 "AVAILABLE",
 "DISABLED"
]
},
"LicenseConfigurationUsage":{
 "type":"structure",
 "members":{
 "ResourceArn":{"shape":"String"},
 "ResourceType":{"shape":"ResourceType"},
 "ResourceStatus":{"shape":"String"},
 "ResourceOwnerId":{"shape":"String"},
 "AssociationTime":{"shape":"DateTime"},

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```

 "ConsumedLicenses":{"shape":"BoxLong"}
 }
},
"LicenseConfigurationUsageList":{"
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 "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{"
 "type":"list",
 "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{"
 "type":"structure",
 "members":{"
 "UsageOperation":{"shape":"UsageOperation"}
 }
},
"LicenseConversionTask":{"
 "type":"structure",
 "members":{"
 "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
 "ResourceArn":{"shape":"String"},
 "SourceLicenseContext":{"shape":"LicenseConversionContext"},
 "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
 "Status":{"shape":"LicenseConversionTaskStatus"},
 "StatusMessage":{"shape":"String"},
 "StartTime":{"shape":"DateTime"},
 "LicenseConversionTime":{"shape":"DateTime"},
 "EndTime":{"shape":"DateTime"}
 }
},
"LicenseConversionTaskId":{"
 "type":"string",
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 "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{"
 "type":"string",
 "enum":[
 "IN_PROGRESS",
 "SUCCEEDED",
 "FAILED"
]
},
"LicenseConversionTasks":{"
 "type":"list",
 "member":{"shape":"LicenseConversionTask"}
},

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"LicenseCountingType":{
 "type":"string",
 "enum":[
 "vCPU",
 "Instance",
 "Core",
 "Socket"
]
},
"LicenseDeletionStatus":{
 "type":"string",
 "enum":[
 "PENDING_DELETE",
 "DELETED"
]
},
"LicenseList":{
 "type":"list",
 "member":{"shape":"License"}
},
"LicenseOperationFailure":{
 "type":"structure",
 "members":{
 "ResourceArn":{"shape":"String"},
 "ResourceType":{"shape":"ResourceType"},
 "ErrorMessage":{"shape":"String"},
 "FailureTime":{"shape":"DateTime"},
 "OperationName":{"shape":"String"},
 "ResourceOwnerId":{"shape":"String"},
 "OperationRequestedBy":{"shape":"String"},
 "MetadataList":{"shape":"MetadataList"}
 }
},
"LicenseOperationFailureList":{
 "type":"list",
 "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{"shape":"String"},
 "AmiAssociationScope":{"shape":"String"}
 }
},
"LicenseSpecifications":{
 "type":"list",
 "member":{"shape":"LicenseSpecification"}
}

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```

},
"LicenseStatus":{
 "type":"string",
 "enum":[
 "AVAILABLE",
 "PENDING_AVAILABLE",
 "DEACTIVATED",
 "SUSPENDED",
 "EXPIRED",
 "PENDING_DELETE",
 "DELETED"
]
},
"LicenseUsage":{
 "type":"structure",
 "members":{
 "EntitlementUsages":{"shape":"EntitlementUsageList"}
 }
},
"LicenseUsageException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{"shape":"String"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"}
 }
},
"ListAssociationsForLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
 "NextToken":{"shape":"String"}
 }
},
"ListDistributedGrantsRequest":{
 "type":"structure",
 "members":{
 "GrantArns":{"shape":"ArnList"},
 "Filters":{"shape":"FilterList"},
 "NextToken":{"shape":"String"},

```



```

 "MaxResults":{"shape":"MaxSize100"}
 }
},
"ListDistributedGrantsResponse":{"
 "type":"structure",
 "members":{"
 "Grants":{"shape":"GrantList"},
 "NextToken":{"shape":"String"}
 }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{"
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{"
 "LicenseConfigurationArn":{"shape":"String"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"}
 }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{"
 "type":"structure",
 "members":{"
 "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
 "NextToken":{"shape":"String"}
 }
},
"ListLicenseConfigurationsRequest":{"
 "type":"structure",
 "members":{"
 "LicenseConfigurationArns":{"shape":"StringList"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"},
 "Filters":{"shape":"Filters"}
 }
},
"ListLicenseConfigurationsResponse":{"
 "type":"structure",
 "members":{"
 "LicenseConfigurations":{"shape":"LicenseConfigurations"},
 "NextToken":{"shape":"String"}
 }
},
"ListLicenseConversionTasksRequest":{"
 "type":"structure",
 "members":{"
 "NextToken":{"shape":"String"},
 "MaxResults":{"shape":"BoxInteger"},
 "Filters":{"shape":"Filters"}

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 }
 },
 "ListLicenseConversionTasksResponse": {
 "type": "structure",
 "members": {
 "LicenseConversionTasks": { "shape": "LicenseConversionTasks" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListLicenseManagerReportGeneratorsRequest": {
 "type": "structure",
 "members": {
 "Filters": { "shape": "FilterList" },
 "NextToken": { "shape": "String" },
 "MaxResults": { "shape": "MaxSize100" }
 }
 },
 "ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": { "shape": "ReportGeneratorList" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "required": ["ResourceArn"],
 "members": {
 "ResourceArn": { "shape": "String" },
 "MaxResults": { "shape": "BoxInteger" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {
 "LicenseSpecifications": { "shape": "LicenseSpecifications" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListLicenseVersionsRequest": {
 "type": "structure",
 "required": ["LicenseArn"],
 "members": {
 "LicenseArn": { "shape": "Arn" },
 "NextToken": { "shape": "String" },
 "MaxResults": { "shape": "MaxSize100" }
 }
 }

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```

 }
 },
 "ListLicenseVersionsResponse": {
 "type": "structure",
 "members": {
 "Licenses": { "shape": "LicenseList" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListLicensesRequest": {
 "type": "structure",
 "members": {
 "LicenseArns": { "shape": "ArnList" },
 "Filters": { "shape": "FilterList" },
 "NextToken": { "shape": "String" },
 "MaxResults": { "shape": "MaxSize100" }
 }
 },
 "ListLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": { "shape": "LicenseList" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "required": ["LicenseArn"],
 "members": {
 "LicenseArn": { "shape": "Arn" },
 "Filters": { "shape": "FilterList" },
 "NextToken": { "shape": "String" },
 "MaxResults": { "shape": "MaxSize100" }
 }
 },
 "ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": { "shape": "GrantList" },
 "NextToken": { "shape": "String" }
 }
 },
 "ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": { "shape": "ArnList" },
 "Filters": { "shape": "FilterList" },
 "NextToken": { "shape": "String" },

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 "MaxResults":{"shape":"MaxSize100"}
 }
},
"ListReceivedGrantsResponse":{"
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 "members":{"
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 "NextToken":{"shape":"String"}
 }
},
"ListReceivedLicensesForOrganizationRequest":{"
 "type":"structure",
 "members":{"
 "Filters":{"shape":"FilterList"},
 "NextToken":{"shape":"String"},
 "MaxResults":{"shape":"MaxSize100"}
 }
},
"ListReceivedLicensesForOrganizationResponse":{"
 "type":"structure",
 "members":{"
 "Licenses":{"shape":"GrantedLicenseList"},
 "NextToken":{"shape":"String"}
 }
},
"ListReceivedLicensesRequest":{"
 "type":"structure",
 "members":{"
 "LicenseArns":{"shape":"ArnList"},
 "Filters":{"shape":"FilterList"},
 "NextToken":{"shape":"String"},
 "MaxResults":{"shape":"MaxSize100"}
 }
},
"ListReceivedLicensesResponse":{"
 "type":"structure",
 "members":{"
 "Licenses":{"shape":"GrantedLicenseList"},
 "NextToken":{"shape":"String"}
 }
},
"ListResourceInventoryRequest":{"
 "type":"structure",
 "members":{"
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"},
 "Filters":{"shape":"InventoryFilterList"}
 }
}

```

```

},
"ListResourceInventoryResponse":{
 "type":"structure",
 "members":{
 "ResourceInventoryList":{"shape":"ResourceInventoryList"},
 "NextToken":{"shape":"String"}
 }
},
"ListTagsForResourceRequest":{
 "type":"structure",
 "required":["ResourceArn"],
 "members":{
 "ResourceArn":{"shape":"String"}
 }
},
"ListTagsForResourceResponse":{
 "type":"structure",
 "members":{
 "Tags":{"shape":"TagList"}
 }
},
"ListTokensRequest":{
 "type":"structure",
 "members":{
 "TokenIds":{"shape":"StringList"},
 "Filters":{"shape":"FilterList"},
 "NextToken":{"shape":"String"},
 "MaxResults":{"shape":"MaxSize100"}
 }
},
"ListTokensResponse":{
 "type":"structure",
 "members":{
 "Tokens":{"shape":"TokenList"},
 "NextToken":{"shape":"String"}
 }
},
"ListUsageForLicenseConfigurationRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{"shape":"String"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"},
 "Filters":{"shape":"Filters"}
 }
},
"ListUsageForLicenseConfigurationResponse":{

```

```

"type":"structure",
"members":{
 "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
 "NextToken":{"shape":"String"}
}
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{"
 "type":"structure",
 "members":{
 "ResourceType":{"shape":"ResourceType"},
 "AssociationCount":{"shape":"BoxLong"}
 }
},
"ManagedResourceSummaryList":{"
 "type":"list",
 "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{"
 "type":"integer",
 "max":100,
 "min":1
},
"MaxSize3StringList":{"
 "type":"list",
 "member":{"shape":"String"},
 "max":3
},
"Message":{"type":"string"},
"Metadata":{"
 "type":"structure",
 "members":{
 "Name":{"shape":"String"},
 "Value":{"shape":"String"}
 }
},
"MetadataList":{"
 "type":"list",
 "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{"
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},

```

```

"Options":{
 "type":"structure",
 "members":{
 "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
 }
},
"OrganizationConfiguration":{
 "type":"structure",
 "required":["EnableIntegration"],
 "members":{
 "EnableIntegration":{"shape":"Boolean"}
 }
},
"PrincipalArnList":{
 "type":"list",
 "member":{"shape":"Arn"},
 "max":1,
 "min":1
},
"ProductInformation":{
 "type":"structure",
 "required":[
 "ResourceType",
 "ProductInformationFilterList"
],
 "members":{
 "ResourceType":{"shape":"String"},
 "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
 }
},
"ProductInformationFilter":{
 "type":"structure",
 "required":[
 "ProductInformationFilterName",
 "ProductInformationFilterComparator"
],
 "members":{
 "ProductInformationFilterName":{"shape":"String"},
 "ProductInformationFilterValue":{"shape":"StringList"},
 "ProductInformationFilterComparator":{"shape":"String"}
 }
},
"ProductInformationFilterList":{
 "type":"list",
 "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
 "type":"list",

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```

"member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
 "type":"structure",
 "required":["MaxTimeToLiveInMinutes"],
 "members":{
 "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
 }
},
"RateLimitExceededException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"ReceivedMetadata":{
 "type":"structure",
 "members":{
 "ReceivedStatus":{"shape":"ReceivedStatus"},
 "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
 "AllowedOperations":{"shape":"AllowedOperationList"}
 }
},
"ReceivedStatus":{
 "type":"string",
 "enum":[
 "PENDING_WORKFLOW",
 "PENDING_ACCEPT",
 "REJECTED",
 "ACTIVE",
 "FAILED_WORKFLOW",
 "DELETED",
 "DISABLED",
 "WORKFLOW_COMPLETED"
]
},
"RedirectException":{
 "type":"structure",
 "members":{
 "Location":{"shape":"Location"},
 "Message":{"shape":"Message"}
 },
 "exception":true
},
"RejectGrantRequest":{
 "type":"structure",
 "required":["GrantArn"],

```



```

 "members":{
 "GrantArn":{"shape":"Arn"}
 }
 },
 "RejectGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{"shape":"Arn"},
 "Status":{"shape":"GrantStatus"},
 "Version":{"shape":"String"}
 }
 },
 "RenewType":{
 "type":"string",
 "enum":[
 "None",
 "Weekly",
 "Monthly"
]
 },
 "ReportContext":{
 "type":"structure",
 "required":["licenseConfigurationArns"],
 "members":{
 "licenseConfigurationArns":{"shape":"ArnList"}
 }
 },
 "ReportFrequency":{
 "type":"structure",
 "members":{
 "value":{"shape":"Integer"},
 "period":{"shape":"ReportFrequencyType"}
 }
 },
 "ReportFrequencyType":{
 "type":"string",
 "enum":[
 "DAY",
 "WEEK",
 "MONTH"
]
 },
 "ReportGenerator":{
 "type":"structure",
 "members":{
 "ReportGeneratorName":{"shape":"String"},
 "ReportType":{"shape":"ReportTypeList"},
 "ReportContext":{"shape":"ReportContext"},

```

```

 "ReportFrequency":{"shape":"ReportFrequency"},
 "LicenseManagerReportGeneratorArn":{"shape":"String"},
 "LastRunStatus":{"shape":"String"},
 "LastRunFailureReason":{"shape":"String"},
 "LastReportGenerationTime":{"shape":"String"},
 "ReportCreatorAccount":{"shape":"String"},
 "Description":{"shape":"String"},
 "S3Location":{"shape":"S3Location"},
 "CreateTime":{"shape":"String"},
 "Tags":{"shape":"TagList"}
 }
},
"ReportGeneratorList":{
 "type":"list",
 "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
 "type":"string",
 "max":100,
 "min":1
},
"ReportType":{
 "type":"string",
 "enum":[
 "LicenseConfigurationSummaryReport",
 "LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
 "type":"list",
 "member":{"shape":"ReportType"}
},
"ResourceInventory":{
 "type":"structure",
 "members":{
 "ResourceId":{"shape":"String"},
 "ResourceType":{"shape":"ResourceType"},
 "ResourceArn":{"shape":"String"},
 "Platform":{"shape":"String"},
 "PlatformVersion":{"shape":"String"},
 "ResourceOwningAccountId":{"shape":"String"}
 }
},
"ResourceInventoryList":{
 "type":"list",
 "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{

```

```

 "type": "structure",
 "members": {
 "Message": { "shape": "Message" }
 },
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 {
 "documentation": "For region me-south-1 with FIPS enabled and DualStack enabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager-user-subscriptions-fips.me-south-1.api.aws"
 }
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 "params": {
 "UseFIPS": true,
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 "UseDualStack": true
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 "documentation": "For region me-south-1 with FIPS enabled and DualStack disabled",
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 "UseDualStack": false
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 "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",

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 "documentation": "For region ap-east-1 with FIPS enabled and DualStack enabled",
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 "endpoint": {
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```

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 "UseDualStack": true
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 "params": {
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 }
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 "documentation": "For region ap-southeast-1 with FIPS enabled and DualStack enabled",
 "expect": {
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"ap-southeast-1",
 "UseDualStack": true
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{
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 "UseDualStack": true
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 "Region": "ap-southeast-1",
 "UseDualStack": false
 }
},
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 "expect": {
 "endpoint": {
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 }
 },
 "params": {
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 "Region": "ap-southeast-2",
 "UseDualStack": true
 }
},
{
 "documentation": "For region ap-southeast-2 with FIPS
enabled and DualStack disabled",
 "expect": {
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 }
 },

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 "UseDualStack": false
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 "UseDualStack": false
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 }
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 "params": {
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 "UseDualStack": true
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 "UseDualStack": false
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 }
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```

 "UseDualStack": true
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 "UseDualStack": false
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 "UseDualStack": true
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 "UseDualStack": false
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 "expect": {
 "endpoint": {

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```

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 "Endpoint": "https://example.com"
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 "expect": {
 "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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 "params": {
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 "Region": "us-east-1",
 "UseDualStack": false,
 "Endpoint": "https://example.com"
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{
 "documentation": "For custom endpoint with fips disabled and dualstack enabled",
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 "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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 "params": {
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 "Region": "us-east-1",
 "UseDualStack": true,
 "Endpoint": "https://example.com"
 }
}
],
"version": "1.0"
}
{
 "version": "2.0",
 "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
 "operations": {
 "AcceptGrant": "<p>Accepts the specified grant.</p>",
 "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
 "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
 "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",

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"CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",

"CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",

"CreateLicense": "<p>Creates a license.</p>",

"CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",

"CreateLicenseConversionTaskForResource":

<p>Creates a new license conversion task.</p>",

"CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",

"CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",

"CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",

"DeleteGrant": "<p>Deletes the specified grant.</p>",

"DeleteLicense": "<p>Deletes the specified license.</p>",

"DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",

"DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",

"DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",

"ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",

"GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",

"GetGrant": "<p>Gets detailed information about the specified grant.</p>",

"GetLicense": "<p>Gets detailed information about the specified license.</p>",

"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",

"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",

"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",

"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",

"GetServiceSettings":

<p>Gets the License Manager settings for the current Region.</p>",

"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",

"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",

"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",

"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",

"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",

"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",



"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",

"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",

"ListLicenses": "<p>Lists the licenses for your account.</p>",

"ListReceivedGrants": "<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>",

"ListReceivedGrantsForOrganization": "<p>Lists the grants received for all accounts in the organization.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListReceivedLicensesForOrganization": "<p>Lists the licenses received for all accounts in the organization.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration":

<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",

"RejectGrant": "<p>Rejects the specified grant.</p>",

"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",

"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",

"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",

"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>",

"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"

},

"shapes": {

  "AcceptGrantRequest": {

    "base": null,

    "refs": {

    }

  },

  "AcceptGrantResponse": {

    "base": null,

    "refs": {

    }

  },

  "AccessDeniedException": {

    "base": "<p>Access to resource denied.</p>",

    "refs": {

    }

  },

  "ActivationOverrideBehavior": {

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"base": null,
"refs": {
 "Options$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior
of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web
Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
for the <code>Status</code> parameter.</p> <p>As a license administrator, you can optionally specify
an <code>ActivationOverrideBehavior</code> when activating a grant.</p> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
 <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate a grant without
replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p>
</dd> </dl>"
}
},
"AllowedOperation": {
 "base": null,
 "refs": {
 "AllowedOperationList$member": null
 }
},
"AllowedOperationList": {
 "base": null,
 "refs": {
 "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
 "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
 "Grant$GrantedOperations": "<p>Granted operations.</p>",
 "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
 }
},
"Arn": {
 "base": null,
 "refs": {
 "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
 "ArnList$member": null,
 "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The
license must use the borrow consumption configuration.</p>",
 "CheckoutBorrowLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the license.</p>",
 "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
 "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
 "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
 "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
 "CreateLicenseConversionTaskForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of

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the resource you are converting the license type for.</p>",

"CreateLicenseResponse\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"CreateLicenseVersionRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"CreateLicenseVersionResponse\$LicenseArn": "<p>License ARN.</p>",

"CreateTokenRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token.</p>",

"DeleteGrantRequest\$GrantArn":

<p>Amazon Resource Name (ARN) of the grant.</p>",

"DeleteGrantResponse\$GrantArn": "<p>Grant ARN.</p>",

"DeleteLicenseRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"GetGrantRequest\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"GetLicenseRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"GetLicenseUsageRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"Grant\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"Grant\$ParentArn": "<p>Parent ARN.</p>",

"Grant\$LicenseArn": "<p>License ARN.</p>",

"Grant\$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",

"GrantedLicense\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"License\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"ListLicenseVersionsRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"ListReceivedGrantsForOrganizationRequest\$LicenseArn": "<p>The Amazon Resource Name (ARN) of the received license.</p>",

"PrincipalArnList\$member": null,

"RejectGrantRequest\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"RejectGrantResponse\$GrantArn": "<p>Grant ARN.</p>"

}

},

"ArnList": {

"base": null,

"refs": {

"CreateTokenRequest\$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.</p>",

"ListDistributedGrantsRequest\$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",

"ListLicensesRequest\$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

"ListReceivedGrantsRequest\$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",

"ListReceivedLicensesRequest\$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

"ReportContext\$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",

"TokenData\$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"

}

},

"AuthorizationException": {

"base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",

"refs": {

}

```

},
"AutomatedDiscoveryInformation": {
 "base": "<p>Describes automated discovery.</p>",
 "refs": {
 "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery
information.</p>",
 "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
 }
},
"Boolean": {
 "base": null,
 "refs": {
 "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>",
 "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
 }
},
"BorrowConfiguration": {
 "base": "<p>Details about a borrow configuration.</p>",
 "refs": {
 "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
 }
},
"BoxBoolean": {
 "base": null,
 "refs": {
 "BorrowConfiguration$AllowEarlyCheckIn": "<p>Indicates whether early check-ins are allowed.</p>",
 "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
 "CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
 "Entitlement$Overage": "<p>Indicates
whether overages are allowed.</p>",
 "Entitlement$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",
 "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a
hard limit.</p>",
 "GetLicenseConfigurationResponse$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
 "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account
discovery is enabled.</p>",
 "LicenseConfiguration$LicenseCountHardLimit": "<p>Number of available licenses as a hard limit.</p>",
 "LicenseConfiguration$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software
is uninstalled.</p>",
 "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>New hard limit of the number of
available licenses.</p>",
 "UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates

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a resource when software is uninstalled.</p>",

"UpdateServiceSettingsRequest\$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"

}

},

"BoxInteger": {

"base": null,

"refs": {

"BorrowConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in minutes.</p>",

"ListAssociationsForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConfigurationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConversionTasksRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseSpecificationsForResourceRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListResourceInventoryRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListUsageForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ProvisionalConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration, in minutes.</p>"

}

},

"BoxLong": {

"base": null,

"refs": {

"ConsumedLicenseSummary\$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",

"CreateLicenseConfigurationRequest\$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseCount": "<p>Number of available licenses.</p>",

"GetLicenseConfigurationResponse\$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",

"LicenseConfiguration\$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",

"LicenseConfiguration\$ConsumedLicenses":

"<p>Number of licenses consumed. </p>",

"LicenseConfigurationUsage\$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",

"ManagedResourceSummary\$AssociationCount": "<p>Number of resources associated with licenses.</p>",

"UpdateLicenseConfigurationRequest\$LicenseCount": "<p>New number of licenses managed by the license configuration.</p>"

}

},

"CheckInLicenseRequest": {

"base": null,

"refs": {

```

 }
 },
 "CheckInLicenseResponse": {
 "base": null,
 "refs": {
 }
 },
 "CheckoutBorrowLicenseRequest": {
 "base": null,
 "refs": {
 }
 },
 "CheckoutBorrowLicenseResponse": {
 "base": null,
 "refs": {
 }
 },
 "CheckoutLicenseRequest": {
 "base": null,
 "refs": {
 }
 },
 "CheckoutLicenseResponse": {
 "base": null,
 "refs": {
 }
 },
 "CheckoutType": {
 "base": null,
 "refs": {
 "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
 "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
 }
 },
 "ClientRequestToken": {
 "base": null,
 "refs": {
 "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
 }
 },
 "ClientToken": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

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```

 "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
 idempotency of the request.</p>",
 "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive
 identifier that you provide to ensure the idempotency of the request.</p>",
 "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
 the idempotency of the request.</p>",
 "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
 idempotency of the request.</p>",
 "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
 the idempotency of the request.</p>",
 "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
 }
},
"ConflictException": {
 "base": "<p>There was a conflict processing the request. Try your request again.</p>",
 "refs": {
 }
},
"ConsumedLicenseSummary": {
 "base": "<p>Details about license consumption.</p>",
 "refs": {
 "ConsumedLicenseSummaryList$member": null
 }
},
"ConsumedLicenseSummaryList": {
 "base": null,
 "refs": {
 "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
 consumed by resources.</p>",
 "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
 resources.</p>"
 }
},
"ConsumptionConfiguration": {
 "base": "<p>Details about a consumption configuration.</p>",
 "refs": {
 "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
 Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
 configuration for workloads with offline usage.</p>",
 "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
 license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
 configuration for workloads with offline usage.</p>",
 "GrantedLicense$ConsumptionConfiguration":
 "<p>Configuration for consumption of the license.</p>",
 "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
 }
},
"CreateGrantRequest": {

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 "base": null,
 "refs": {
 }
 },
 "CreateGrantResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateGrantVersionRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateGrantVersionResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseConfigurationResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseConversionTaskForResourceRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseConversionTaskForResourceResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseManagerReportGeneratorRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseManagerReportGeneratorResponse": {
 "base": null,
 "refs": {
 }
 }
}

```



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 }
 },
 "CreateLicenseRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseVersionRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateLicenseVersionResponse": {
 "base": null,
 "refs": {
 }
 },
 "CreateTokenRequest": {
 "base": null,
 "refs": {
 }
 },
 "CreateTokenResponse": {
 "base": null,
 "refs": {
 }
 },
 "DateTime": {
 "base": null,
 "refs": {
 "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
 "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
 "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
 "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
 "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
 "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with the resource.</p>",
 "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
 "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource

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was changed.</p>",
 "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
 "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
}
},
"DatetimeRange": {
 "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
 "refs": {
 "CreateLicenseRequest$Validity": "<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>",
 "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
 "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
 "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
 }
},
>DeleteGrantRequest": {
 "base": null,
 "refs": {
 }
},
>DeleteGrantResponse": {
 "base": null,
 "refs": {
 }
},
>DeleteLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
},
>DeleteLicenseConfigurationResponse": {
 "base": null,
 "refs": {
 }
},
>DeleteLicenseManagerReportGeneratorRequest": {
 "base": null,
 "refs": {
 }
},
>DeleteLicenseManagerReportGeneratorResponse": {
 "base": null,
 "refs": {
 }
},
>DeleteLicenseRequest": {

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 "base": null,
 "refs": {
 }
 },
 "DeleteLicenseResponse": {
 "base": null,
 "refs": {
 }
 },
 "DeleteTokenRequest": {
 "base": null,
 "refs": {
 }
 },
 "DeleteTokenResponse": {
 "base": null,
 "refs": {
 }
 },
 "DigitalSignatureMethod": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS.</p>"
 }
 },
 "Entitlement": {
 "base": "<p>Describes a resource entitled for use with a license.</p>",
 "refs": {
 "EntitlementList$member": null
 }
 },
 "EntitlementData": {
 "base": "<p>Data associated with an entitlement resource.</p>",

 "refs": {
 "EntitlementDataList$member": null
 }
 },
 "EntitlementDataList": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not
supported.</p>",
 "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
 "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
 "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
 }
 }
}

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 }
 },
 "EntitlementDataUnit": {
 "base": null,
 "refs": {
 "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
 "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
 }
 },
 "EntitlementList": {
 "base": null,
 "refs": {
 "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
 "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
 "GrantedLicense$Entitlements":
 "<p>License entitlements.</p>",
 "License$Entitlements": "<p>License entitlements.</p>"
 }
 },
 "EntitlementNotAllowedException": {
 "base": "<p>The entitlement is not allowed.</p>",
 "refs": {
 }
 },
 "EntitlementUnit": {
 "base": null,
 "refs": {
 "Entitlement$Unit": "<p>Entitlement unit.</p>"
 }
 },
 "EntitlementUsage": {
 "base": "<p>Usage associated with an entitlement resource.</p>",
 "refs": {
 "EntitlementUsageList$member": null
 }
 },
 "EntitlementUsageList": {
 "base": null,
 "refs": {
 "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
 }
 },
 "ExtendLicenseConsumptionRequest": {
 "base": null,
 "refs": {
 }
 },
 "ExtendLicenseConsumptionResponse": {

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 "base": null,
 "refs": {
 }
 },
 "FailedDependencyException": {
 "base": "<p>A dependency required to run the API is missing.</p>",
 "refs": {
 }
 },
 "Filter": {
 "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation.
Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
 "refs": {
 "FilterList$member": null,
 "Filters$member": null
 }
 },
 "FilterLimitExceededException": {
 "base": "<p>The request uses too many filters or too many filter values.</p>",
 "refs": {
 }
 },
 "FilterList": {
 "base": null,
 "refs": {
 "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <p> <code>LicenseArn</code> </p> <p> <code>GrantStatus</code> </p>
 <p> <code>GranteePrincipalARN</code> </p> <p> <code>ProductSKU</code> </p>
 <p> <code>LicenseIssuerName</code> </p> ",
 "ListLicenseManagerReportGeneratorsRequest$Filters":
 "<p>Filters to scope the results. The following filters are supported: </p> <p>
<code>LicenseConfigurationArn</code> </p> ",
 "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
 <p> <code>Beneficiary</code> </p> <p> <code>ProductSKU</code> </p> <p>
<code>Fingerprint</code> </p> <p> <code>Status</code> </p> ",
 "ListReceivedGrantsForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <p> <code>ParentArn</code> </p> <p> <code>GranteePrincipalArn</code>
</p> ",
 "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
 <p> <code>ProductSKU</code> </p> <p> <code>LicenseIssuerName</code> </p>
<p> <code>LicenseArn</code> </p> <p> <code>GrantStatus</code>
</p> <p> <code>GranterAccountId</code> </p> ",
 "ListReceivedLicensesForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters
are supported:</p> <p> <code>Beneficiary</code> </p> <p> <code>ProductSKU</code> </p>
 ",
 "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <p> <code>ProductSKU</code> </p> <p> <code>Status</code> </p>
 <p> <code>Fingerprint</code> </p> <p> <code>IssuerName</code> </p> <p>

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<code>Beneficiary</code> </p> ",
 "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p>
<p> <code>LicenseArns</code> </p> "
 }
},
"FilterName": {
 "base": null,
 "refs": {
 "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
 }
},
"FilterValue": {
 "base": null,
 "refs": {
 "FilterValues$member": null
 }
},
"FilterValues": {
 "base": null,
 "refs": {
 "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the
filter.</p>"
 }
},
"Filters": {
 "base": null,
 "refs": {
 "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical
operators are supported:</p> <p> <code>licenseCountingType</code> - The dimension for which
licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> |
<code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is
used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses
have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
",
 "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>. </p>",
 "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and
logical operators are supported:</p> <p> <code>resourceArn</code> - The ARN of the license
configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceAccount</code>
- The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> "
 }
}

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},
"GetAccessTokenRequest": {
 "base": null,
 "refs": {
 }
},
"GetAccessTokenResponse": {
 "base": null,
 "refs": {
 }
},
"GetGrantRequest": {
 "base": null,
 "refs": {
 }
},
"GetGrantResponse": {
 "base": null,
 "refs": {
 }
},
"GetLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
},
"GetLicenseConfigurationResponse": {
 "base": null,
 "refs": {
 }
},
"GetLicenseConversionTaskRequest": {
 "base": null,
 "refs": {
 }
},
"GetLicenseConversionTaskResponse": {
 "base": null,
 "refs": {
 }
},
"GetLicenseManagerReportGeneratorRequest": {
 "base": null,
 "refs": {
 }
},
"GetLicenseManagerReportGeneratorResponse": {
 "base":

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null,
 "refs": {
 }
},
"GetLicenseRequest": {
 "base": null,
 "refs": {
 }
},
"GetLicenseResponse": {
 "base": null,
 "refs": {
 }
},
"GetLicenseUsageRequest": {
 "base": null,
 "refs": {
 }
},
"GetLicenseUsageResponse": {
 "base": null,
 "refs": {
 }
},
"GetServiceSettingsRequest": {
 "base": null,
 "refs": {
 }
},
"GetServiceSettingsResponse": {
 "base": null,
 "refs": {
 }
},
"Grant": {
 "base": "<p>Describes a grant.</p>",
 "refs": {
 "GetGrantResponse$Grant": "<p>Grant details.</p>",
 "GrantList$member": null
 }
},
"GrantList": {
 "base": null,
 "refs": {
 "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
 "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
 "ListReceivedGrantsResponse$Grants":

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"<p>Received grant details.</p>"
 }
},
"GrantStatus": {
 "base": null,
 "refs": {
 "AcceptGrantResponse$Status": "<p>Grant status.</p>",
 "CreateGrantResponse$Status": "<p>Grant status.</p>",
 "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
 "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
 "DeleteGrantResponse$Status": "<p>Grant status.</p>",
 "Grant$GrantStatus": "<p>Grant status.</p>",
 "RejectGrantResponse$Status": "<p>Grant status.</p>"
 }
},
"GrantedLicense": {
 "base": "<p>Describes a license that is granted to a grantee.</p>",
 "refs": {
 "GrantedLicenseList$member": null
 }
},
"GrantedLicenseList": {
 "base": null,
 "refs": {
 "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has received.</p>",
 "ListReceivedLicensesResponse$Licenses": "<p>Received license details.</p>"
 }
},
"ISO8601DateTime": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
 "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
 "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
 "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
 "DatetimeRange$Begin": "<p>Start of the time range.</p>",
 "DatetimeRange$End": "<p>End of the time range.</p>",
 "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
 "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
 "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
 "License$CreateTime": "<p>License creation time.</p>",
 "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 }
}

```

```

 }
 },
 "Integer": {
 "base": null,
 "refs": {
 "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",
 "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
 }
 },
 "InvalidParameterValueException": {
 "base": "<p>One or more parameter values are not valid.</p>",
 "refs": {
 }
 },
 "InvalidResourceStateException": {
 "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
 "refs": {
 }
 },
 "InventoryFilter": {
 "base": "<p>An inventory filter.</p>",
 "refs": {

 "InventoryFilterList$member": null
 }
 },
 "InventoryFilterCondition": {
 "base": null,
 "refs": {
 "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
 }
 },
 "InventoryFilterList": {
 "base": null,
 "refs": {
 "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> <p>

```

`resource_id` - The ID of the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.

`tag:<key>` - The key/value combination of a tag assigned to the resource. Logical operators are `EQUALS` (single account) or `EQUALS` | `NOT_EQUALS` (cross account).

```

 }
 },
 "Issuer": {
 "base": "<p>Details about the issuer of a license.</p>",
 "refs": {
 "CreateLicenseRequest$Iissuer": "<p>License issuer.</p>",
 "CreateLicenseVersionRequest$Iissuer": "<p>License issuer.</p>"
 }
 },
 "IssuerDetails": {
 "base": "<p>Details associated with the issuer of a license.</p>",
 "refs": {
 "GrantedLicense$Iissuer": "<p>Granted
license issuer.</p>",
 "License$Iissuer": "<p>License issuer.</p>"
 }
 },
 "License": {
 "base": "<p>Software license that is managed in License Manager.</p>",
 "refs": {
 "GetLicenseResponse$License": "<p>License details.</p>",
 "LicenseList$member": null
 }
 },
 "LicenseConfiguration": {
 "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and
enforced by License Manager. Components include specifications for the license type (licensing by instance, socket,
CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity
(how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
 "refs": {
 "LicenseConfigurations$member": null
 }
 },
 "LicenseConfigurationAssociation": {
 "base": "<p>Describes an association with a license configuration.</p>",
 "refs": {
 "LicenseConfigurationAssociations$member": null
 }
 },
 "LicenseConfigurationAssociations": {
 "base": null,
 "refs": {
 "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information
about the associations for the license configuration.</p>"
 }
 }
}

```

```

 }
 },
 "LicenseConfigurationStatus": {
 "base": null,
 "refs": {
 "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license
configuration.</p>"
 }
 },
 "LicenseConfigurationUsage": {
 "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
 "refs": {
 "LicenseConfigurationUsageList$member": null
 }
 },
 "LicenseConfigurationUsageList": {
 "base": null,
 "refs": {
 "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the
license configurations.</p>"
 }
 },
 "LicenseConfigurations": {
 "base": null,
 "refs": {
 "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
 }
 },
 "LicenseConversionContext": {
 "base": "<p>Information about a license type conversion task.</p>",
 "refs": {
 "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>",
 "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert
a license type using the CLI in the <i>License Manager User Guide</i>.</p>",
 "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
 "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type
converted to.</p>",
 "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>"
 }
 }
}

```

```

 "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
 }
},
"LicenseConversionTask": {
 "base": "<p>Information about a license type conversion task.</p>",
 "refs": {
 "LicenseConversionTasks$member": null
 }
},
"LicenseConversionTaskId": {
 "base": null,
 "refs": {
 "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
 "<p>The ID of the created license type conversion task.</p>",
 "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to
retrieve information on.</p>",
 "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion
task.</p>",
 "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
 }
},
"LicenseConversionTaskStatus": {
 "base": null,
 "refs": {
 "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
 "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
 }
},
"LicenseConversionTasks": {
 "base": null,
 "refs": {
 "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
configuration tasks for your account.</p>"
 }
},
"LicenseCountingType": {
 "base": null,
 "refs": {
 "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
 "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
 "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
 }
},
"LicenseDeletionStatus": {

```

```

 "base": null,
 "refs": {
 "DeleteLicenseResponse$Status": "<p>License status.</p>"
 }
 },
 "LicenseList": {
 "base": null,
 "refs": {
 "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
 "ListLicensesResponse$Licenses": "<p>License details.</p>"
 }
 },
 "LicenseOperationFailure": {
 "base": "<p>Describes the failure of a license operation.</p>",
 "refs": {
 "LicenseOperationFailureList$member": null
 }
 },
 "LicenseOperationFailureList": {
 "base":
null,
 "refs": {
 "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
 }
 },
 "LicenseSpecification": {
 "base": "<p>Details for associating a license configuration with a resource.</p>",
 "refs": {
 "LicenseSpecifications$member": null
 }
 },
 "LicenseSpecifications": {
 "base": null,
 "refs": {
 "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
 "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
 "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
 }
 },
 "LicenseStatus": {
 "base": null,
 "refs": {
 "CreateLicenseResponse$Status": "<p>License status.</p>",

```

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 "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
 "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
 "GrantedLicense$Status": "<p>Granted license status.</p>",
 "License$Status": "<p>License status.</p>"
 }
},
"LicenseUsage": {
 "base": "<p>Describes the entitlement usage associated with a license.</p>",
 "refs": {
 "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
 }
},
"LicenseUsageException": {
 "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
 "refs": {
 }
},
"ListAssociationsForLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
},
"ListAssociationsForLicenseConfigurationResponse": {
 "base": null,
 "refs": {
 }
},
"ListDistributedGrantsRequest": {
 "base": null,
 "refs": {
 }
},
"ListDistributedGrantsResponse":
{
 "base": null,
 "refs": {
 }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
 "base": null,
 "refs": {
 }
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
 "base": null,
 "refs": {
 }
},

```

```

"ListLicenseConfigurationsRequest": {
 "base": null,
 "refs": {
 }
},
"ListLicenseConfigurationsResponse": {
 "base": null,
 "refs": {
 }
},
"ListLicenseConversionTasksRequest": {
 "base": null,
 "refs": {
 }
},
"ListLicenseConversionTasksResponse": {
 "base": null,
 "refs": {
 }
},
"ListLicenseManagerReportGeneratorsRequest": {
 "base": null,
 "refs": {
 }
},
"ListLicenseManagerReportGeneratorsResponse": {
 "base": null,
 "refs": {
 }
},
"ListLicenseSpecificationsForResourceRequest": {
 "base": null,
 "refs": {
 }
},
"ListLicenseSpecificationsForResourceResponse":
{
 "base": null,
 "refs": {
 }
},
"ListLicenseVersionsRequest": {
 "base": null,
 "refs": {
 }
},
"ListLicenseVersionsResponse": {
 "base": null,

```



```

 "refs": {
 }
 },
 "ListLicensesRequest": {
 "base": null,
 "refs": {
 }
 },
 "ListLicensesResponse": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedGrantsForOrganizationRequest": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedGrantsForOrganizationResponse": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedGrantsRequest": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedGrantsResponse": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedLicensesForOrganizationRequest": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedLicensesForOrganizationResponse": {
 "base": null,
 "refs": {
 }
 },
 "ListReceivedLicensesRequest":
{
 "base": null,
 "refs": {
 }
}

```

```

},
"ListReceivedLicensesResponse": {
 "base": null,
 "refs": {
 }
},
"ListResourceInventoryRequest": {
 "base": null,
 "refs": {
 }
},
"ListResourceInventoryResponse": {
 "base": null,
 "refs": {
 }
},
"ListTagsForResourceRequest": {
 "base": null,
 "refs": {
 }
},
"ListTagsForResourceResponse": {
 "base": null,
 "refs": {
 }
},
"ListTokensRequest": {
 "base": null,
 "refs": {
 }
},
"ListTokensResponse": {
 "base": null,
 "refs": {
 }
},
"ListUsageForLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
},
"ListUsageForLicenseConfigurationResponse": {
 "base": null,
 "refs": {
 }
},
"Location": {
 "base": null,

```

```

"refs": {
 "RedirectException$Location": null
},
"Long": {
 "base": null,
 "refs": {
 "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 }
},
"ManagedResourceSummary": {
 "base": "<p>Summary information about a managed resource.</p>",
 "refs": {
 "ManagedResourceSummaryList$member": null
 }
},
"ManagedResourceSummaryList": {
 "base": null,
 "refs": {
 "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
 "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
 }
},
"MaxSize100": {
 "base": null,
 "refs": {
 "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
 "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
 "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
number of results to return in a single call.</p>",
 "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
 "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
 "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
 "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
 "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
 "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
 }
},
"MaxSize3StringList": {
 "base": null,
 "refs": {
 "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",

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"GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT
token.</p>",
 "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
}
},
"Message": {
 "base": null,
 "refs": {
 "AccessDeniedException$Message": null,
 "AuthorizationException$Message": null,
 "ConflictException$Message": null,
 "EntitlementNotAllowedException$Message": null,
 "FailedDependencyException$Message": null,
 "FilterLimitExceededException$Message": null,
 "InvalidParameterValueException$Message": null,
 "InvalidResourceStateException$Message": null,
 "LicenseUsageException$Message": null,
 "NoEntitlementsAllowedException$Message": null,
 "RateLimitExceededException$Message": null,
 "RedirectException$Message": null,
 "ResourceLimitExceededException$Message": null,
 "ResourceNotFoundException$Message": null,
 "ServerInternalException$Message":
null,
 "UnsupportedDigitalSignatureMethodException$Message": null,
 "ValidationException$Message": null
 }
},
"Metadata": {
 "base": "<p>Describes key/value pairs.</p>",
 "refs": {
 "MetadataList$member": null
 }
},
"MetadataList": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
 "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
 "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
 "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
 "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
 "License$LicenseMetadata": "<p>License metadata.</p>",
 "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
 }
},
"NoEntitlementsAllowedException": {

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"base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
"refs": {
}
},
"Options": {
 "base": "<p>The options you can specify when you create a new version of a grant, such as activation override
behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager in the <i>License
Manager User Guide</i>.</p>",
 "refs": {
 "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
 "Grant$Options": "<p>The options specified for the grant.</p>"
 }
},
"OrganizationConfiguration": {
 "base": "<p>Configuration information for Organizations.</p>",
 "refs": {
 "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated
with License Manager for cross-account discovery.</p>",
 "UpdateServiceSettingsRequest$OrganizationConfiguration":
"<p>Enables integration with Organizations for cross-account discovery.</p>"
 }
},
"PrincipalArnList": {
 "base": null,
 "refs": {
 "CreateGrantRequest$Principals": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name (ARN):</p> <p>An Amazon Web Services account, which includes only the
account specified.</p> <p>An organizational unit (OU), which includes all accounts in the
OU.</p> <p>An organization, which will include all accounts across your organization.</p>
 "
 }
},
"ProductInformation": {
 "base": "<p>Describes product information for a license configuration.</p>",
 "refs": {
 "ProductInformationList$member": null
 }
},
"ProductInformationFilter": {
 "base": "<p>Describes product information filters.</p>",
 "refs": {
 "ProductInformationFilterList$member":
null
 }
},
"ProductInformationFilterList": {

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```

 "base": null,
 "refs": {
 "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the
resource type is <code>SSM_MANAGED</code>:</p> <p> <code>Application Name</code> - The
name of the application. Logical operator is <code>EQUALS</code>.</p> <p> <code>Application
Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p>
 <p> <code>Application Version</code> - The version of the application. Logical operator is
<code>EQUALS</code>.</p> <p> <code>Platform Name</code> - The name of the platform. Logical
operator is <code>EQUALS</code>.</p> <p> <code>Platform Type</code> - The platform type.
Logical operator is <code>EQUALS</code>.</p> <p> <code>Tag:key</code> - The key of a tag
attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key. </p> <p> <code>AccountId</code> - The 12-digit ID of an Amazon
Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> <p> <code>License Included</code> -
The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.
Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-
web</code> | <code>windows-server-datacenter</code>.</p> <p>The following filters and logical
operators are supported when the resource type is <code>RDS</code>:</p> <p> <code>Engine
Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values
are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>
 <p> <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>.
Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack
sqlt</code> | <code>ols</code> | <code>olap</code>.</p> "
 }
 },
 "ProductInformationList": {
 "base": null,
 "refs": {
 "CreateLicenseConfigurationRequest$ProductInformationList":
"<p>Product information.</p>",
 "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
 "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
 "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
 }
 },
 "ProvisionalConfiguration": {
 "base": "<p>Details about a provisional configuration.</p>",
 "refs": {
 "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
 }
 }
},

```

```

"RateLimitExceededException": {
 "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
 "refs": {
 }
},
"ReceivedMetadata": {
 "base": "<p>Metadata associated with received licenses and grants.</p>",
 "refs": {
 "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
 }
},
"ReceivedStatus": {
 "base": null,
 "refs": {
 "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
 }
},
"RedirectException": {
 "base": "<p>This is not the correct Region for the resource. Try again.</p>",
 "refs": {
 }
},
"RejectGrantRequest": {
 "base": null,
 "refs": {
 }
},
"RejectGrantResponse": {
 "base": null,
 "refs": {
 }
},
"RenewType": {
 "base": null,
 "refs": {
 "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
 }
},
"ReportContext": {
 "base": "<p>Details of the license configuration that this generator reports on.</p>",
 "refs": {
 "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
 "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
"<p>The report context.</p>"
 }
},

```

```

"ReportFrequency": {
 "base": "<p>Details about how frequently reports are generated.</p>",
 "refs": {
 "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated. Reports can be generated daily, monthly, or weekly.</p>",
 "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated.</p>"
 }
},
"ReportFrequencyType": {
 "base": null,
 "refs": {
 "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or
monthly.</p>"
 }
},
"ReportGenerator": {
 "base": "<p>Describe the details of a report generator.</p>",
 "refs": {
 "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
"<p>A report generator that creates periodic reports about your license configurations.</p>",
 "ReportGeneratorList$member": null
 }
},
"ReportGeneratorList": {
 "base": null,
 "refs": {
 "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
 }
},
"ReportGeneratorName": {
 "base": null,
 "refs": {
 "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
 }
},
"ReportType": {
 "base": null,
 "refs": {
 "ReportTypeList$member": null
 }
},
"ReportTypeList": {

```



```

 "base": null,
 "refs": {
 "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
be generated:</p> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> ",
 "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
 "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> "
 }
 },
 "ResourceInventory": {
 "base": "<p>Details about a resource.</p>",
 "refs": {
 "ResourceInventoryList$member": null
 }
 },
 "ResourceInventoryList": {
 "base": null,
 "refs": {
 "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
 }
 },
 "ResourceLimitExceededException": {
 "base": "<p>Your resource limits have been exceeded.</p>",
 "refs": {
 }
 },
 "ResourceNotFoundException": {
 "base": "<p>The resource cannot be found.</p>",
 "refs": {
 }
 },
 "ResourceType": {
 "base": null,
 "refs": {
 "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
 "LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
 "LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
 "LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
 "ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
 "ResourceInventory$ResourceType": "<p>Type of resource.</p>"
 }
 },
 "S3Location": {

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```

 "base":
 "<p>Details of the S3 bucket that report generator reports are published to.</p>",
 "refs": {
 "ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
 }
},
"ServerInternalException": {
 "base": "<p>The server experienced an internal error. Try again.</p>",
 "refs": {
 }
},
"SignedToken": {
 "base": null,
 "refs": {
 "CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
 "CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
 }
},
"StatusReasonMessage": {
 "base": null,
 "refs": {
 "CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
 "DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
 "Grant$StatusReason": "<p>Grant status reason.</p>",
 "ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
 }
},
"String": {
 "base": null,
 "refs": {
 "AcceptGrantResponse$Version": "<p>Grant version.</p>",
 "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
 "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
 "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
 "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
 "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
 "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
 "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
 "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
 "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
 "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
 "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
 "CheckoutLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the checkout license.</p>",
 "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
 "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",

```

"CreateGrantResponse\$Version": "<p>Grant version.</p>",

"CreateGrantVersionRequest\$GrantName": "<p>Grant name.</p>",

"CreateGrantVersionRequest\$SourceVersion": "<p>Current version of the grant.</p>",

"CreateGrantVersionResponse\$Version": "<p>New version of the grant.</p>",

"CreateLicenseConfigurationRequest\$Name": "<p>Name of the license configuration.</p>",

"CreateLicenseConfigurationRequest\$Description": "<p>Description of the license configuration.</p>",

"CreateLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Description": "<p>Description of the report generator.</p>",

"CreateLicenseManagerReportGeneratorResponse\$LicenseManagerReportGeneratorArn":

<p>The Amazon Resource Name (ARN) of the new report generator.</p>",

"CreateLicenseRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CreateLicenseRequest\$HomeRegion": "<p>Home Region for the license.</p>",

"CreateLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CreateLicenseResponse\$Version": "<p>License version.</p>",

"CreateLicenseVersionRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseVersionRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseVersionRequest\$HomeRegion": "<p>Home Region of the license.</p>",

"CreateLicenseVersionRequest\$SourceVersion": "<p>Current version of the license.</p>",

"CreateLicenseVersionResponse\$Version": "<p>New version of the license.</p>",

"CreateTokenResponse\$TokenId":

<p>Token ID.</p>",

"DeleteGrantRequest\$Version": "<p>Current version of the grant.</p>",

"DeleteGrantResponse\$Version": "<p>Grant version.</p>",

"DeleteLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name": "<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue":

<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the

license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey":

"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn":

"<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus":

"<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a

resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationResponse\$NextToken":

"<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are <code>SSM\_MANAGED</code> | <code>RDS</code>.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

"RejectGrantResponse\$Version": "<p>Grant version.</p>",

"ReportGenerator\$ReportGeneratorName": "<p>Name of the report generator.</p>",

"ReportGenerator\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"ReportGenerator\$LastRunStatus": "<p>Status of the last report generation attempt.</p>",

"ReportGenerator\$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",

"ReportGenerator\$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",

"ReportGenerator\$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",

"ReportGenerator\$Description": "<p>Description of the report generator.</p>",

"ReportGenerator\$CreateTime": "<p>Time the report was created.</p>",

"ResourceInventory\$ResourceId": "<p>ID of the resource.</p>",

"ResourceInventory\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"ResourceInventory\$Platform": "<p>Platform of the resource.</p>",

"ResourceInventory\$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",

"ResourceInventory\$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",

"S3Location\$bucket": "<p>Name of the S3 bucket reports are published to.</p>",

"S3Location\$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",

"StringList\$member": null,

"Tag\$Key": "<p>Tag key.</p>",

"Tag\$Value": "<p>Tag value.</p>",

"TagKeyList\$member": null,

"TagResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"TokenData\$TokenId": "<p>Token ID.</p>",

"TokenData\$TokenType": "<p>Type of token generated. The supported value is  
<code>REFRESH\_TOKEN</code>.</p>",

"TokenData\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"TokenData\$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and  
<code>DELETED</code>.</p>",

"UntagResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license  
configuration.</p>",

"UpdateLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the  
license configuration.</p>",

"UpdateLicenseConfigurationRequest\$Name":  
"<p>New name of the license configuration.</p>",

"UpdateLicenseConfigurationRequest\$Description": "<p>New description of the license configuration.</p>",

"UpdateLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon  
Resource Name (ARN) of the report generator to update.</p>",

"UpdateLicenseManagerReportGeneratorRequest\$Description": "<p>Description of the report generator.</p>",

"UpdateLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the  
Amazon Web Services resource.</p>",

"UpdateServiceSettingsRequest\$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3  
bucket where the License Manager information is stored.</p>",

"UpdateServiceSettingsRequest\$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS  
topic used for License Manager alerts.</p>"

}

},

"StringList": {

"base": null,

"refs": {

"CreateLicenseConfigurationRequest\$LicenseRules":  
"<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The  
available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code> dimension:  
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> |  
<code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code> dimension:  
<code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |  
<code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |  
<code>minimumVcpus</code> </p> </li> <li> <p> <code>Sockets</code> dimension:  
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> |  
<code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code> dimension:  
<code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |

```

<code>minimumVcpus</code> </p> <p>The unit for <code>licenseAffinityToHost</code>
is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-
Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible
values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
 "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
 "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
 "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
license configurations.</p>",
 "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
 "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
 "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
after you create a license configuration is licenseAffinityToHost.</p>"
}
},
"Tag": {
 "base": "<p>Details about a tag
for a license configuration.</p>",
 "refs": {
 "TagList$member": null
 }
},
"TagKeyList": {
 "base": null,
 "refs": {
 "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
 }
},
"TagList": {
 "base": null,
 "refs": {
 "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
 "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
 "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
 "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
 "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
 "TagResourceRequest$Tags": "<p>One or more tags.</p>"
 }
},
"TagResourceRequest": {
 "base": null,
 "refs": {
 }
},
"TagResourceResponse": {
 "base": null,
 "refs": {

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 }
 },
 "TokenData": {
 "base": "<p>Describes a token.</p>",
 "refs": {
 "TokenList$member": null
 }
 },
 "TokenList": {
 "base": null,
 "refs": {
 "ListTokensResponse$Tokens": "<p>Received token details.</p>"
 }
 },
 "TokenString": {
 "base": null,
 "refs": {
 "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
 "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
 "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
 }
 },
 "TokenType": {
 "base": null,
 "refs": {
 "CreateTokenResponse$TokenType": "<p>Token type.</p>"
 }
 },
 "UnsupportedDigitalSignatureMethodException": {
 "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
 "refs": {
 }
 },
 "UntagResourceRequest": {
 "base": null,
 "refs": {
 }
 },
 "UntagResourceResponse": {
 {
 "base": null,
 "refs": {
 }
 },
 "UpdateLicenseConfigurationRequest": {
 "base": null,
 "refs": {
 }
 }

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},
"UpdateLicenseConfigurationResponse": {
 "base": null,
 "refs": {
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},
"UpdateLicenseManagerReportGeneratorRequest": {
 "base": null,
 "refs": {
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},
"UpdateLicenseManagerReportGeneratorResponse": {
 "base": null,
 "refs": {
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},
"UpdateLicenseSpecificationsForResourceRequest": {
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 "refs": {
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},
"UpdateLicenseSpecificationsForResourceResponse": {
 "base": null,
 "refs": {
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"UpdateServiceSettingsRequest": {
 "base": null,
 "refs": {
 }
},
"UpdateServiceSettingsResponse": {
 "base": null,
 "refs": {
 }
},
"UsageOperation": {
 "base": null,
 "refs": {
 "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see Sample
data: usage operation by platform </p>"
 }
},
"ValidationException": {
 "base": "<p>The provided input is not valid. Try your request again.</p>",

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 "refs": {
 }
 }
}
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 "testCases": [
 {
 "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "af-south-1"
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 "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.ap-east-1.amazonaws.com"
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-east-1"
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 "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-1.amazonaws.com"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-1"
 }
 },
 {

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```

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"expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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"params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-northeast-2"
}
},
{
 "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-northeast-3.amazonaws.com"
 }
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 "params": {
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 "UseDualStack": false,
 "Region": "ap-northeast-3"
 }
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 "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.ap-south-1.amazonaws.com"
 }
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 "params": {
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 "UseDualStack": false,
 "Region": "ap-south-1"
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 "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "url": "https://license-manager.ap-southeast-1.amazonaws.com"
 }
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 "UseDualStack":

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 "Region": "ap-southeast-1"
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 "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.ap-southeast-2.amazonaws.com"
 }
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "ap-southeast-2"
 }
},
{
 "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
 "expect": {
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 }
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 "UseDualStack": false,
 "Region": "ap-southeast-3"
 }
},
{
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"\"For region ca-central-1 with FIPS disabled and DualStack disabled\",
 "expect": {
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 }
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 "UseDualStack": false,
 "Region": "ca-central-1"
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},
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 "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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 "endpoint": {

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 "url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
 "UseFIPS": false,
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 "Region": "eu-central-1"
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 "expect": {
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 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "eu-north-1"
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{
 "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
 "expect": {
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 "expect": {
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{
 "UseFIPS": false,
 "UseDualStack": false,
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 }
 },
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 "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
 "expect": {
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 "UseDualStack": false,
 "Region": "eu-west-2"
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 "expect": {
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 "params": {
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 "UseDualStack": false,
 "Region": "eu-west-3"
 }
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},
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 "UseDualStack": false,
 "Region": "me-south-1"
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 "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
 "expect": {
 "endpoint": {
 "url": "https://license-manager.sa-east-1.amazonaws.com"
 }
 }
}

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 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "sa-east-1"
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 "Region": "us-east-1"
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 "params": {
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 "Region": "us-east-1"
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 "params": {
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 "UseDualStack": false,
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 }
 },

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 "expect": {
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 "UseDualStack": false,
 "Region": "us-east-2"
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 "UseDualStack": false,
 "Region": "us-west-1"
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 },
 "params": {
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 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
 "expect": {
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 "url": "https://license-manager.us-east-1.api.aws"
 }
 },
 "params": {
 "UseFIPS": false,
 "UseDualStack": true,
 "Region": "us-east-1"
 }
},
{
 "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",

```

```

"expect": {
 "endpoint": {
 "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
 }
},
"params": {
 "UseFIPS": false,
 "UseDualStack": false,
 "Region": "cn-north-1"
}
},
{
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 }
 },
 "params": {
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 "UseDualStack": false,
 "Region": "cn-northwest-1"
 }
},
{
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 }
 },
 "params": {
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 "Region": "cn-north-1"
 }
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 }
 },
 "params": {
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 }
}

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```

 }
 },
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and DualStack enabled",
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 }
 },
 "params": {
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 "UseDualStack": true,
 "Region": "cn-north-1"
 }
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 }
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 "params": {
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 "UseDualStack": false,
 "Region": "us-gov-east-1"
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 "result_key": "Subscriptions"
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 "result_key": "InstanceSummaries"
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 "protocol": "rest-json",
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```

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"uid":"license-manager-user-subscriptions-2018-05-10"
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 "requestUri":"/identity-provider/DeregisterIdentityProvider",
 "responseCode":200
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 "members":{
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 }
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 "AssociateUserRequest":{
 "type":"structure",
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 "Username"
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}

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```

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 "IdentityProvider":{"shape":"IdentityProvider"},
 "InstanceId":{"shape":"String"},
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"AssociateUserResponse":{
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 "Product"
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 "Product":{"shape":"String"}
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 "Operation":{"shape":"String"},
 "Value":{"shape":"String"}
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 "Settings",
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 "FailureMessage":{"shape":"String"},
 "IdentityProvider":{"shape":"IdentityProvider"},

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 "Status":{"shape":"String"}
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 "Products":{"shape":"StringList"},
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 "member": { "shape": "InstanceUserSummary" }
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 "NextToken": { "shape": "String" }
 }
 },
 "ListProductSubscriptionsRequest": {
 "type": "structure",
 "required": [
 "IdentityProvider",
 "Product"
],

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```

"members":{
 "Filters":{"shape":"FilterList"},
 "IdentityProvider":{"shape":"IdentityProvider"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"},
 "Product":{"shape":"String"}
}
},
"ListProductSubscriptionsResponse":{"
 "type":"structure",
 "members":{
 "NextToken":{"shape":"String"},
 "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
 }
},
"ListUserAssociationsRequest":{"
 "type":"structure",
 "required":[
 "IdentityProvider",
 "InstanceId"
],
 "members":{
 "Filters":{"shape":"FilterList"},
 "IdentityProvider":{"shape":"IdentityProvider"},
 "InstanceId":{"shape":"String"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"String"}
 }
},
"ListUserAssociationsResponse":{"
 "type":"structure",
 "members":{
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 "NextToken":{"shape":"String"}
 }
},
"ProductUserSummary":{"
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "Status",
 "Username"
],
 "members":{
 "Domain":{"shape":"String"},
 "IdentityProvider":{"shape":"IdentityProvider"},

```

```

 "Product":{"shape":"String"},
 "Status":{"shape":"String"},
 "StatusMessage":{"shape":"String"},
 "SubscriptionEndDate":{"shape":"String"},
 "SubscriptionStartDate":{"shape":"String"},
 "Username":{"shape":"String"}
 }
},
"ProductUserSummaryList":{
 "type":"list",
 "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product"
],
 "members":{
 "IdentityProvider":{"shape":"IdentityProvider"},
 "Product":{"shape":"String"},
 "Settings":{"shape":"Settings"}
 }
},
"RegisterIdentityProviderResponse":{
 "type":"structure",
 "required":["IdentityProviderSummary"],
 "members":{
 "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
 }
},
"ResourceNotFoundException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
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 "error":{
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 "senderFault":true
 },
 "exception":true
},
"SecurityGroup":{
 "type":"string",
 "max":200,
 "min":5,
 "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},

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"ServiceQuotaExceededException":{
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 "members":{
 "message":{"shape":"String"}
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 "exception":true
},
"Settings":{
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 "required":[
 "SecurityGroupId",
 "Subnets"
],
 "members":{
 "SecurityGroupId":{"shape":"SecurityGroup"},
 "Subnets":{"shape":"SettingsSubnetsList"}
 }
},
"SettingsSubnetsList":{
 "type":"list",
 "member":{"shape":"Subnet"},
 "min":1
},
"StartProductSubscriptionRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "Username"
],
 "members":{
 "Domain":{"shape":"String"},
 "IdentityProvider":{"shape":"IdentityProvider"},
 "Product":{"shape":"String"},
 "Username":{"shape":"String"}
 }
},
"StartProductSubscriptionResponse":{
 "type":"structure",
 "required":["ProductUserSummary"],
 "members":{
 "ProductUserSummary":{"shape":"ProductUserSummary"}
 }
},
"StopProductSubscriptionRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",

```

```

 "Product",
 "Username"
],
 "members":{
 "Domain":{"shape":"String"},
 "IdentityProvider":{"shape":"IdentityProvider"},
 "Product":{"shape":"String"},
 "Username":{"shape":"String"}
 }
},
"StopProductSubscriptionResponse":{
 "type":"structure",
 "required":["ProductUserSummary"],
 "members":{
 "ProductUserSummary":{"shape":"ProductUserSummary"}
 }
},
"String":{"type":"string"},
"StringList":{
 "type":"list",
 "member":{"shape":"String"}
},
"Subnet":{
 "type":"string",
 "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
 "type":"list",
 "member":{"shape":"Subnet"}
},
"ThrottlingException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "exception":true
},
"UpdateIdentityProviderSettingsRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "UpdateSettings"
],
 "members":{
 "IdentityProvider":{"shape":"IdentityProvider"},
 "Product":{"shape":"String"},
 "UpdateSettings":{"shape":"UpdateSettings"}
 }
}

```

```

 }
 },
 "UpdateIdentityProviderSettingsResponse":{
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 "required":["IdentityProviderSummary"],
 "members":{
 "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
 }
 },
 "UpdateSettings":{
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 "required":[
 "AddSubnets",
 "RemoveSubnets"
],
 "members":{
 "AddSubnets":{"shape":"Subnets"},
 "RemoveSubnets":{"shape":"Subnets"},
 "SecurityGroupId":{"shape":"SecurityGroup"}
 }
 },
 "ValidationException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "exception":true
 }
}

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{
 "version":"2.0",
 "metadata":{
 "apiVersion":"2018-05-10",
 "endpointPrefix":"license-manager-linux-subscriptions",
 "jsonVersion":"1.1",
 "protocol":"rest-json",
 "protocols":["rest-json"],
 "serviceFullName":"AWS License Manager Linux Subscriptions",
 "serviceId":"License Manager Linux Subscriptions",
 "signatureVersion":"v4",
 "signingName":"license-manager-linux-subscriptions",
 "uid":"license-manager-linux-subscriptions-2018-05-10",
 "auth":["aws.auth#sigv4"]
 },
 "operations":{
 "DeregisterSubscriptionProvider":{
 "name":"DeregisterSubscriptionProvider",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/DeregisterSubscriptionProvider",
 "responseCode":200
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 "input":{"shape":"DeregisterSubscriptionProviderRequest"},
 "output":{"shape":"DeregisterSubscriptionProviderResponse"},
 "errors":[
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 {"shape":"ResourceNotFoundException"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
],
 "idempotent":true
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 "GetRegisteredSubscriptionProvider":{
 "name":"GetRegisteredSubscriptionProvider",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
 "responseCode":200
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 "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
 "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
],
 },
 }
}

```

```

 "idempotent":true
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 "name":"GetServiceSettings",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/GetServiceSettings",
 "responseCode":200
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 "input":{"shape":"GetServiceSettingsRequest"},
 "output":{"shape":"GetServiceSettingsResponse"},
 "errors":[
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 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
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 "idempotent":true
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 "ListLinuxSubscriptionInstances":{
 "name":"ListLinuxSubscriptionInstances",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/ListLinuxSubscriptionInstances",
 "responseCode":200
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 "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
 "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
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 "idempotent":true
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 "ListLinuxSubscriptions":{
 "name":"ListLinuxSubscriptions",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/ListLinuxSubscriptions",
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 "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
],
 "idempotent":true
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 "ListTagsForResource":{
 "name":"ListTagsForResource",
 "http":{
 "method":"GET",
 "requestUri":"/tags/{resourceArn}",
 "responseCode":200
 },
 "input":{"shape":"ListTagsForResourceRequest"},
 "output":{"shape":"ListTagsForResourceResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"ValidationException"}
]
 },
 "RegisterSubscriptionProvider":{
 "name":"RegisterSubscriptionProvider",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/RegisterSubscriptionProvider",
 "responseCode":200
 },
 "input":{"shape":"RegisterSubscriptionProviderRequest"},
 "output":{"shape":"RegisterSubscriptionProviderResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
],
 "idempotent":true
 }
}

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```

},
"TagResource":{
 "name":"TagResource",
 "http":{
 "method":"PUT",
 "requestUri":"/tags/{resourceArn}",
 "responseCode":200
 },
 "input":{"shape":"TagResourceRequest"},
 "output":{"shape":"TagResourceResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"ValidationException"}
],
 "idempotent":true
},
"UntagResource":{
 "name":"UntagResource",
 "http":{
 "method":"DELETE",
 "requestUri":"/tags/{resourceArn}",
 "responseCode":200
 },
 "input":{"shape":"UntagResourceRequest"},
 "output":{"shape":"UntagResourceResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"}
],
 "idempotent":true
},
"UpdateServiceSettings":{
 "name":"UpdateServiceSettings",
 "http":{
 "method":"POST",
 "requestUri":"/subscription/UpdateServiceSettings",
 "responseCode":200
 },
 "input":{"shape":"UpdateServiceSettingsRequest"},
 "output":{"shape":"UpdateServiceSettingsResponse"},
 "errors":[
 {"shape":"InternalServerError"},
 {"shape":"ThrottlingException"},
 {"shape":"ValidationException"}
],
 "idempotent":true
}

```



```

 }
 },
 "shapes":{
 "Boolean":{
 "type":"boolean",
 "box":true
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 "BoxInteger":{
 "type":"integer",
 "box":true
 },
 "BoxLong":{
 "type":"long",
 "box":true
 },
 "DeregisterSubscriptionProviderRequest":{
 "type":"structure",
 "required":["SubscriptionProviderArn"],
 "members":{
 "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
 }
 },
 "DeregisterSubscriptionProviderResponse":{
 "type":"structure",
 "members":{
 }
 },
 "Filter":{
 "type":"structure",
 "members":{
 "Name":{"shape":"String"},
 "Operator":{"shape":"Operator"},
 "Values":{"shape":"StringList"}
 }
 },
 "FilterList":{
 "type":"list",
 "member":{"shape":"Filter"}
 },
 "GetRegisteredSubscriptionProviderRequest":{
 "type":"structure",
 "required":["SubscriptionProviderArn"],
 "members":{
 "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
 }
 },
 "GetRegisteredSubscriptionProviderResponse":{
 "type":"structure",

```

```

"members":{
 "LastSuccessfulDataRetrievalTime":{"shape":"String"},
 "SecretArn":{"shape":"SecretArn"},
 "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
 "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
 "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
 "SubscriptionProviderStatusMessage":{"shape":"String"}
}
},
"GetServiceSettingsRequest":{
 "type":"structure",
 "members":{
 }
},
"GetServiceSettingsResponse":{
 "type":"structure",
 "members":{
 "HomeRegions":{"shape":"StringList"},
 "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
 "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
 "Status":{"shape":"Status"},
 "StatusMessage":{"shape":"StringMap"}
 }
},
"Instance":{
 "type":"structure",
 "members":{
 "AccountID":{"shape":"String"},
 "AmiId":{"shape":"String"},
 "DualSubscription":{"shape":"String"},
 "InstanceID":{"shape":"String"},
 "InstanceType":{"shape":"String"},
 "LastUpdatedTime":{"shape":"String"},
 "OsVersion":{"shape":"String"},
 "ProductCode":{"shape":"ProductCodeList"},
 "Region":{"shape":"String"},
 "RegisteredWithSubscriptionProvider":{"shape":"String"},
 "Status":{"shape":"String"},
 "SubscriptionName":{"shape":"String"},
 "SubscriptionProviderCreateTime":{"shape":"String"},
 "SubscriptionProviderUpdateTime":{"shape":"String"},
 "UsageOperation":{"shape":"String"}
 }
},
"InstanceList":{
 "type":"list",
 "member":{"shape":"Instance"}
}

```

```

},
"InternalServerError":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "exception":true,
 "fault":true
},
"LinuxSubscriptionsDiscovery":{
 "type":"string",
 "enum":[
 "Enabled",
 "Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
 "type":"structure",
 "required":[
 "OrganizationIntegration",
 "SourceRegions"
],
 "members":{
 "OrganizationIntegration":{"shape":"OrganizationIntegration"},
 "SourceRegions":{"shape":"StringList"}
 }
},
"ListLinuxSubscriptionInstancesRequest":{
 "type":"structure",
 "members":{
 "Filters":{"shape":"FilterList"},
 "MaxResults":{"shape":"BoxInteger"},
 "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
 }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
 "type":"string",
 "max":16384,
 "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
 "type":"structure",
 "members":{
 "Instances":{"shape":"InstanceList"},
 "NextToken":{"shape":"String"}
 }
},
"ListLinuxSubscriptionsRequest":{

```

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 "type": "structure",
 "members": {
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 "MaxResults": { "shape": "BoxInteger" },
 "NextToken": { "shape": "ListLinuxSubscriptionsRequestNextTokenString" }
 }
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 "ListLinuxSubscriptionsRequestNextTokenString": {
 "type": "string",
 "max": 16384,
 "min": 1
 },
 "ListLinuxSubscriptionsResponse": {
 "type": "structure",
 "members": {
 "NextToken": { "shape": "String" },
 "Subscriptions": { "shape": "SubscriptionList" }
 }
 },
 "ListRegisteredSubscriptionProvidersRequest": {
 "type": "structure",
 "members": {
 "MaxResults": { "shape": "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger" },
 "NextToken": { "shape": "String" },
 "SubscriptionProviderSources": { "shape": "SubscriptionProviderSourceList" }
 }
 },
 "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
 "type": "integer",
 "box": true,
 "max": 100,
 "min": 1
 },
 "ListRegisteredSubscriptionProvidersResponse": {
 "type": "structure",
 "members": {
 "NextToken": { "shape": "String" },
 "RegisteredSubscriptionProviders": { "shape": "RegisteredSubscriptionProviderList" }
 }
 },
 "ListTagsForResourceRequest": {
 "type": "structure",
 "required": ["resourceArn"],
 "members": {
 "resourceArn": {
 "shape": "SubscriptionProviderArn",
 "location": "uri",
 "locationName": "resourceArn"
 }
 }
 }
}

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```

 }
 }
},
"ListTagsForResourceResponse":{
 "type":"structure",
 "members":{
 "tags":{"shape":"Tags"}
 }
},
"Operator":{
 "type":"string",
 "enum":[
 "Equal",
 "NotEqual",
 "Contains"
],
 "max":20,
 "min":1
},
"OrganizationIntegration":{
 "type":"string",
 "enum":[
 "Enabled",
 "Disabled"
]
},
"ProductCodeList":{
 "type":"list",
 "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
 "type":"structure",
 "required":[
 "SecretArn",
 "SubscriptionProviderSource"
],
 "members":{
 "SecretArn":{"shape":"SecretArn"},
 "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
 "Tags":{"shape":"Tags"}
 }
},
"RegisterSubscriptionProviderResponse":{
 "type":"structure",
 "members":{
 "SubscriptionProviderArn":{"shape":"String"},
 "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
 "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
 }
}

```

```

 }
 },
 "RegisteredSubscriptionProvider":{
 "type":"structure",
 "members":{
 "LastSuccessfulDataRetrievalTime":{"shape":"String"},
 "SecretArn":{"shape":"SecretArn"},
 "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
 "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
 "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
 "SubscriptionProviderStatusMessage":{"shape":"String"}
 }
 },
 "RegisteredSubscriptionProviderList":{
 "type":"list",
 "member":{"shape":"RegisteredSubscriptionProvider"}
 },
 "ResourceNotFoundException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "exception":true
 },
 "SecretArn":{
 "type":"string",
 "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
 },
 "Status":{
 "type":"string",
 "enum":[
 "InProgress",

 "Completed",
 "Successful",
 "Failed"
]
 },
 "String":{"type":"string"},
 "StringList":{
 "type":"list",
 "member":{"shape":"StringListMemberString"},
 "max":100,
 "min":1
 },
 "StringListMemberString":{
 "type":"string",
 "max":100,

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```

 "min":1
 },
 "StringMap":{
 "type":"map",
 "key":{"shape":"String"},
 "value":{"shape":"String"}
 },
 "Subscription":{
 "type":"structure",
 "members":{
 "InstanceCount":{"shape":"BoxLong"},
 "Name":{"shape":"String"},
 "Type":{"shape":"String"}
 }
 },
 "SubscriptionList":{
 "type":"list",
 "member":{"shape":"Subscription"}
 },
 "SubscriptionProviderArn":{
 "type":"string",
 "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
 },
 "SubscriptionProviderSource":{
 "type":"string",
 "enum":["RedHat"]
 },
 "SubscriptionProviderSourceList":{
 "type":"list",
 "member":{"shape":"SubscriptionProviderSource"}
 },
 "SubscriptionProviderStatus":{
 "type":"string",
 "enum":[
 "ACTIVE",
 "INVALID",
 "PENDING"
]
 },
 "TagKeyList":{
 "type":"list",
 "member":{"shape":"String"},
 "max":50,
 "min":0,
 "sensitive":true
 },
 "TagResourceRequest":{

```

```

"type":"structure",
"required":[
 "resourceArn",
 "tags"
],
"members":{
 "resourceArn":{
 "shape":"SubscriptionProviderArn",
 "location":"uri",
 "locationName":"resourceArn"
 },
 "tags":{"shape":"Tags"}
}
},
"TagResourceResponse":{
 "type":"structure",
 "members":{
 }
},
"Tags":{
 "type":"map",
 "key":{"shape":"String"},
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 "location":"uri",
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 "LinuxSubscriptionsDiscoverySettings": { "shape": "LinuxSubscriptionsDiscoverySettings" }
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 "type": "Boolean"
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 "type": "Boolean"
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 "documentation": "Override the endpoint used to send this request",
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# 1.890 centrifugo v5.4.9

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