

Oracle Solaris 11.4.42.113.1 Support Repository Update (Oracle Solaris 11.4 SRU 42.113.1) **(Doc ID 2848201.1)**

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APPLIES TO:

Solaris Operating System - Version 11.4 to 11.4 [Release 11.0]
Information in this document applies to any platform.

MAIN CONTENT

This README describes why you need to apply this SRU, caveats, and other important information that you might need to consider before applying or installing Oracle Solaris 11.4.42.113.1. It also contains general information about Oracle Solaris 11 Support Repository Update (SRU) and instructions about how to manage your local repository.

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Why Apply Oracle Solaris 11.4.42.113.1

Oracle Solaris 11.4.42.113.1 provides improvements and bug fixes that are applicable for all the Oracle Solaris 11.4 systems. Some of the noteworthy improvements in this SRU include:

- New features and/or modified interfaces:

Ansible 2.10

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OpenSSL 3.0 added. See

for more information.

New Idmconsole CLI option: -e (specify escape char)

New Idm unbind CLI option: -a (all domains)

LDoms support for new migration-class2, covering M7/T7/S7/M8/T8 platforms. See Idm(8) for more information.

Option for mdb(1) leaving forked and spawned processes stopped

freezero(3c) and freezeroall(3c) functions added to libc

Execute bits removed from most shared objects

"split -b" enhanced to support more scaled suffixes and fractional values

Sphinx & Alabaster integrated

Docutils integrated

coreadm default locations for global and kernel zone cores updated to use /var/cores/

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C.UTF-8 locale added. See

for more information.

zfs get -I state

Improved handling of scaled sizes in pfiles(1) and plimit(1)

Added -h and --scale options to plimit(1), pmadvise(1), and pmap(1)

Support of KMIP 1.4 protocol in libkmip

Annotations for displaying objects in mdb

Python zipp integrated

Python typing-extensions integrated

importlib-metadata integrated

Python packaging integrated

zpool status/import -s to display allocated and allocatable vdev space

sysadm(8) evacuate detailed progress messages

Deprecated getpw(3c)

Changed cache directory for PEAR from /tmp/pear to /var/share/pear

- Updated versions plus security fixes:

Apache Web Server to 2.4.52, and addresses security issues (Bugs 33690282, 33690290) (CVE-2021-44224, CVE-2021-44790)

Java 7 to jdk7u331, and addresses security issues (Bug 33719067)

Java 8 to jdk8u321, and addresses security issues (Bug 33719084)

ModSecurity to version 2.9.5, and addresses a security issue (Bugs 33610846, 33610856) (CVE-2021-42717)

MySQL 5.7 to 5.7.36, and addresses a security issue (Bugs 33559879, 33562525)

NSS to 3.70, and addresses a security issue (Bugs 33357628, 33620036) (CVE-2021-43527)

Samba to 4.13.14, and addresses a security issue (Bugs 33587792, 33557379)

Upgrade Django 2.2 to version 2.2.25, and addresses a security issue (Bugs 33649132, 33644896) (CVE-2021-44420)

Upgrade Django 3.2 to version 3.2.10, and addresses a security issue (Bugs 33649133, 33644896) (CVE-2021-44420)

fetchmail to 6.4.22, and addresses a security issue (Bugs 33367399, 33285165) (CVE-2021-39272)

libexif to 0.6.24, and addresses a security issue (Bugs 33626748, 33626756) (CVE-2021-27815)

ncurses to 6.3, and addresses a security issue (Bugs 33539857, 33425972) (CVE-2019-17594, CVE-2019-17595)

webkitgtk to 2.34.1, and addresses a security issue (Bugs 33509542, 33509261)

- Updated versions:

HPLIP to 3.21.8 (Bug 33468985)

Jinja2 to 3.0.1 (Bug 33327674)

MarkupSafe to 2.0.1 (Bug 33327682)

PAPS to 0.20211014 (Bug 33469366)

Perl Tk module to 804.036 (Bug 33522791)

Update gnome-desktop to 41.0 (Bug 33458612)

Update gnome-keyring to 40.0 (Bug 33458622)

Valgrind to 3.18.1 (Bug 33555035)

at-spi2-core to 2.40.3 (Bug 33284437)

atkmm to 2.28.2 (Bug 33285176)

bash to latest patch bash51-012 (Bug 33583177)

beautifulsoup4 to 4.9.3 (Bug 33318013)

buildbot-worker to 3.4.0 (Bug 33493473)

dateutil to 2.8.2 (Bug 33327656)

debtcollector to 2.3.0 (Bug 33327663)

devhelp to 41.1 (Bug 33388017)

diffstat to 1.64 (Bug 33615554)

gedit and gedit-plugins to 3.34.0 (Bug 33298228)

glibmm to 2.66.2 (Bug 33595525)

gnome-autoar to 0.4.1 (Bug 33567388)

gnome-backgrounds to 41.0 (Bug 33458595)

gnome-calculator to 3.34.0 (Bug 33298239)

gnome-devel-docs to 40.3 (Bug 33574072)

gnome-system-monitor to 41.0 (Bug 33458624)

gnome-user-docs to 41.0 (Bug 33574074)

grilo-plugins to 0.3.13 (Bug 33285763)

gsettings-desktop-schemas to 41.0 (Bug 33502004)

gsound to 1.0.3 (Bug 33285973)

gtk-vnc to 1.2.0 (Bug 33290042)

gtk3 to 3.24.30 (Bug 33590735)

hexedit to 1.5 (Bug 33534552)

hg-python mediator vendor-priority to 3.7 (Bug 33578289)

libgd to 2.3.3 (Bug 33535474)

libgee to 0.20.4 (Bug 33290438)

libgxps to 0.3.2 (Bug 33290582)

libhandy to 1.4.0 (Bug 33355914)

libmediaart to 1.9.5 (Bug 33566078)

libssh2 to 1.10.0 (Bug 33292536)

meld to 3.21.0 (Bug 33298255)

meson to 0.59.2 (Bug 33280653)

minor update to gnome-shell 3.38.6 (Bug 33576307)

msgpack to 1.0.2 (Bug 33327688)

mutt to 2.1.3 (Bug 33541324)

nano to 5.9 (Bug 33541002)

netifaces to 0.11.0 (Bug 33327689)

orca to 41.0 (Bug 33595655)

oslo.config to 8.7.1 (Bug 33327695)

oslo.context to 3.3.1 (Bug 33327697)

oslo.i18n to 5.1.0 (Bug 33327699)

oslo.log to 4.6.0 (Bug 33327701)

oslo.serialization to 4.2.0 (Bug 33327704)

oslo.utils to 4.10.0 (Bug 33327709)

pango to 1.48.10 (Bug 33485812)

pbr to 5.6.0 (Bug 33327714)

poppler to 21.10.0 (Bug 33465689)

puppetlabs-apache to 5.10.0 (Bug 33429464)

pygobject3 to 3.42.0 (Bug 33560878)

pyparsing to 2.4.7 (Bug 33327715)

pytz to 2021.1 (Bug 33327719)

rfc3986 to 1.5.0 (Bug 33327721)

sg3_utils to 1.46 (Bug 33538503)

simplejson to 3.17.5 (Bug 33327724)

six to 1.16.0 (Bug 33317732)

stevedore to 3.4.0 (Bug 33327729)

sushi to 41.0 (Bug 33515842)

totem to 3.38.2 (Bug 33504418)

totem-pl-parser to 3.26.6 (Bug 33505579)

vte to 0.66.0 (Bug 33504083)

- Security fixes for:

g11n/im-ibus (Bug 30304106) (CVE-2019-14822)

kernel/streams (Bug 33403305)

library/gd2 (Bug 33333583) (CVE-2021-40812)

library/polkit (Bug 33745389) (CVE-2021-4034)

utility/imagemagick (Bug 33352304) (CVE-2020-20244)

utility/junit (Bug 32141383) (CVE-2020-15250)

utility/mailman (Bug 33566458) (CVE-2021-43331, CVE-2021-43332)

utility/php (Bug 32321030)

utility/pip (Bug 33634148) (CVE-2021-3572)

utility/vim (Bugs 33362038, 33491803, 33549758, 33605122, 33640344, 33648840)

x11/xorg-server (Bug 33649692) (CVE-2021-4008, CVE-2021-4010, CVE-2021-4009, CVE-2021-4011)

- The updated Java 7 and Java 8 packages are incorporated in the SRU. If the update is performed using the `pkg update entire@<sru number>` command and you have previously unlocked the consolidation/java-8/java-8-incorporation or consolidation/java-7/java-7-incorporation facets, see [Note 5](#) for the details on how to update Java. If the update is performed using the `pkg update` command, or the `pkg update entire@<sru number>` command without the above facets unlocked, these packages will be updated. For more information and bugs fixed, see [Java](#)

[8 Update 321 Release Notes](#) and [Java 7 Update 331 Release Notes](#). For further details regarding Java and Oracle Solaris, see [Java Patches for Solaris Packages](#).

For a complete list of bugs fixed in this SRU, see [Bugs Fixed](#).

For the list of Service Alerts that affect each Oracle Solaris 11.4 SRU, see [Important Oracle Solaris 11.4 SRU Issues \(Doc ID 2445150.1\)](#).

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End-of-Feature (EOF) Notices

This section lists features that will be removed in a future release and features that have been removed in a specific SRU. See also the public EOF document [End of Feature Notices for Oracle Solaris 11](#).

EOFs Planned for Future Oracle Solaris 11.4 SRUs

The following features or components will be removed in a future Oracle Solaris 11.4 SRU release:

- freetype-config
- Python 2.7
- pygtk
- GCC 7
- PHP 7.3
- Zenmap
- Ndiff
- Mailman
- Cloog
- Distributed Multihead X (DMX)
- Puppet master
- libzapojit

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EOFs for Oracle Solaris 11.4.42.113.1

The following features or components are no longer available as of Oracle Solaris 11.4.42.113.1:

- Node.js 12
- Wireless WPA supplicant
- Solaris Volume Manager (SVM) RCM Module

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EOF Summary for Oracle Solaris 11.4 SRUs

The following list shows the Oracle Solaris 11.4 SRU in which the feature or component was removed:

- Oracle Solaris 11.4
 - apache-commons-logging
- Oracle Solaris 11.4.9
 - rdiff-backup
 - APR 1.5
 - librsync
 - ocaml
 - PHP 5.6
 - audiocs driver
- Oracle Solaris 11.4.10
 - NVIDIA R304 driver
 - NVIDIA Cg toolkit
- Oracle Solaris 11.4.12
 - UUCP
 - Automake 1.10
 - pywbem

- idnkit2
- Locale Services (g11nsvc) Library
- Oracle Solaris 11.4.13
 - OpenExr
 - Ilmbase
- Oracle Solaris 11.4.18
 - Ruby 2.1 and Ruby 2.3
- Oracle Solaris 11.4.19
 - xscreensaver
- Oracle Solaris 11.4.20
 - Google Go 1.7
- Oracle Solaris 11.4.21
 - Automake 1.11 and Automake 1.15
 - enscript
 - libmng
 - psif driver
 - ICU 59.1
 - MySQL 5.5
- Oracle Solaris 11.4.24
 - Node.js 8
 - Point-to-Point Protocol
- Oracle Solaris 11.4.27
 - Python 3.4
 - llc2 driver
 - GCC 5
 - NVIDIA R340 graphics driver
 - PHP 7.1
 - Python bindings: libxsl-27 and net-snmp-27
 - All versions of the following Python components:

aioeventlet	os-client-config
amqp	oslo.concurrency
anyjson	oslo.messaging
appdirs	oslo.middleware
cachetools	oslo.service
ceilometerclient	osprofiler
cheetah	pathlib
cliff	pika
contextlib2	pika-pool
d2to1	positional
decorator	posix_ipc
django-appconf	pycadf
eventlet	pydns
filechunkio	pyrabbit
futures	pyscss
futurist	pysmi
greenlet	pysnmp
httplib2	pytest-capturelog
iniparse	pytest-codecheckers
ipython	python-editor
jsonpatch	python-mimeparse
jsonpath-rw	quantumclient
jsonpointer	rcssmin
keystoneauth1	repoze.lru
keystoneclient	requestsexceptions
keystonemiddleware	retrying
kombu	rjsmin
lesscpy	routes
librabbitmq	scp
logutils	simplegeneric
m2crypto	singledispatch
markdown	swift
networkx	swiftclient
neutronclient	tempita
nose-cover3	trollius
openstack-common	unicodcsv
openstacksdk	warlock

- Oracle Solaris 11.4.30
 - Python 3.5

- Django 1.11
- RAD Python Client for Python 2.7 and 3.5
- RRDtool
- ANTLR
- gnome-doc-utils
- lcms
- Oracle Solaris 11.4.33
 - Node.js 10
 - GSSDP, GUPnP, GUPnP-igd
 - telepathy-logger
 - All versions of the following Python components:

cov-core	pyflakes
cssutils	pymemcache
dogpile.cache	pytest-cov
dogpile.core	requests-aws
fixtures	setuptools-git
formencode	sqlalchemy
ipaddr	testresources
ldappool	testscenarios
ldtp	tox
linecache2	traceback2
logilab-common	twisted-web2
paste	waitress
paste.deploy	webtest
pycountry	
- Oracle Solaris 11.4.36
 - Device Driver Utility
 - Direct Rendering Infrastructure (DRI)
 - GNOME 2.0 Configuration - GConf
 - HTTPing
 - Wifi drivers:

arn	rum
atu	uath
iwh	ural
iwk	urtw
iwp	zyd
- Oracle Solaris 11.4.39
 - MySQL 5.6
 - Perl 5.22 and 5.26
 - GNU parted and NTFS tools
 - Ruby 2.5
 - SpiderMonkey 38 and SpiderMonkey 60
 - MCollectives
- Oracle Solaris 11.4.42
 - Node.js 12
 - Wireless WPA supplicant
 - Solaris Volume Manager (SVM) RCM Module

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Before Installing Oracle Solaris 11.4.42.113.1

This section provides some information about special installation and runtime instructions that you need to consider before installing or running Oracle Solaris 11.4.42.113.1.

For the list of Service Alerts that affect each Oracle Solaris 11.4 SRU, see [Important Oracle Solaris 11.4 SRU Issues \(Doc ID 2445150.1\)](#).

Note 1: Using Memory Reservation Pools for Kernel Zones (Bug 26534188)

On some more heavily loaded systems that experience memory contention or sufficiently fragmented memory, it can be difficult for an administrator to guarantee that critical Kernel Zones can allocate the memory they need to boot or even reboot. For example, a sufficiently large ZFS ARC may make it difficult for a Kernel Zone to allocate the memory it needs,

especially when requiring a larger pagesize.

This may be especially pertinent in multi-tenant environments where the administrator of the Kernel Zone may be different from the host itself and thus should have no knowledge of the memory constraints on the host.

By allowing memory to be reserved ahead of time early during boot when it is more likely that enough memory of the desired pagesize is available, the impact of overall system memory usage on the ability of a Kernel Zone to boot/reboot will be minimized.

Oracle Solaris 11.4.1 adds a new SMF service, `svc:/system/memory-reserve:zones`, which has properties that allow a Solaris administrator to configure the Kernel Zones Memory Reserve Pool (MRP). The service is disabled by default. The properties are:

```
config/size
- size of the reservation to make (e.g. '64G')

config/pagesize-policy
- mimics the zonecfg capped-memory:pagesize-policy
  (acceptable values are 'smallest-only', 'largest-available', and 'largest-only')

config/type
- can only be 'solaris-kz'

config/lgrps
```

Enabling the service instance creates the reservation using the MRP and it will go into maintenance with an appropriate reason logged if there is an error or the reservation fails. Disabling the service destroys the reservation if no memory from the reservation is currently allocated. If an attempt is made to disable the service while there is used reserved memory, the service instance will drop to maintenance with an appropriate reason message.

The reservation size can be adjusted and the service refreshed to grow or shrink the reservation. Attempts to shrink the reservation beyond currently used reserved memory will drop the service instance to maintenance with an appropriate message. Other configuration changes will be reflected on reboot or after restarting the service.

To configure a Kernel Zone to allocate its memory from an MRP, a new `zonecfg` property has been introduced, `capped-memory:memory-reserve`. To use this, its value must be set to the MRP management service instance name (e.g. 'zones'). This property cannot be reconfigured live and is only valid for Kernel Zones. In addition, the `capped-memory:memory-reserve` property is mutually exclusive with the `capped-memory:pagesize-policy` property. That is, if an MRP service instance is used, the Kernel Zone will use the pagesize of the MRP that was selected by the configured MRP service `pagesize-policy`. If the `capped-memory:memory-reserve` property is cleared (the default), then the Kernel Zone will allocate from general system memory.

Going forward, using this MRP service and its corresponding `zonecfg` property is the recommended way to ensure Kernel Zones are able to allocate the memory they need to boot. Usage of MRP obviates the need for adjusting ZFS ARC hint `user_reserve_hint_pct`. MRP configured on target hosts can also be used to guarantee successful live migration.

The following example shows how to configure MRP to set aside 64G of 'largest-available' page size of memory for Kernel Zones.

```
# svccfg -s svc:/system/memory-reserve:zones setprop config/size=64g
# svccfg -s svc:/system/memory-reserve:zones setprop config/type=solaris-kz
# svccfg -s svc:/system/memory-reserve:zones setprop config/lgrps=""
# svccfg -s svc:/system/memory-reserve:zones refresh
# svcadm enable svc:/system/memory-reserve:zones
```

The following commands configure 'myzone' Kernel Zone to use 16G of memory from 'zones' MRP:

```
# zonecfg -z myzone info capped-memory
capped-memory:
  physical: 16G
  pagesize-policy: largest-available
```

```
# zonecfg -z myzone 'select capped-memory; clear pagesize-policy; set memory-reserve=zones; end; commit'
```

Note 2: Long pause after upgrading from Oracle Solaris 11.3 to Oracle Solaris 11.4 if /var/tmp is large (Bug 28620304)

Before updating, first check the size of /var/tmp:

```
du -sdh /var/tmp
```

If it is large (>1GB), the first boot of the new environment may take a very long time. Note: The number of files is also a factor, e.g. 1000 1MB files would take more time than a 1GB file.

It is therefore recommended that files are evacuated or removed from /var/tmp first; this action must be taken **before** creating an updated boot environment (BE).

If you wish to keep your old files, then on a quiet system before upgrading, do the following:

```
mv /var/tmp /var/tmp.old
mkdir -m 1777 /var/tmp
chown root:sys /var/tmp
```

If Oracle databases are run on this system, please be aware that an important state directory is maintained in /var/tmp. This directory (/var/tmp/.oracle) must be preserved for proper functioning of Oracle databases.

If present beforehand, these directories should be moved back before beginning the upgrade:

```
mv /var/tmp.old/orbit-* /var/tmp
mv /var/tmp.old/keyring-* /var/tmp
mv /var/tmp.old/.oracle /var/tmp
```

Then, after upgrading and rebooting:

```
rm -rf /var/.migrate/tmp
mv /var/tmp.old /var/.migrate/tmp
/lib/svc/share/migrate_shared_files.py /var/.migrate /var/share pseudo-fmri
```

Note: It is not advisable to use /var/tmp as temporary storage as it is shared between BEs.

Note 3: Bug metadata for Operating System and Networking components (Bug 28644386)

In the Oracle Solaris 11.4 SRU releases the bug metadata for Operating System and Networking components will be listed in the onset-incorporation package rather than the individual packages as was the case with Oracle Solaris 11.3. Packages in this incorporation are tightly coupled and are built and tested as a single unit and users are unable to 'unlock' most of these packages to mix and match versions. This simplifies searching for fixes and determining what packages you need to apply to ensure you have a fix, as now a bug search will match a single package - osnet-incorporation. Only the core Operating System and Networking packages are affected by this change; all other areas will continue to have the bug metadata listed in the individual packages.

Note 4: Updating to the latest timezone package

The latest timezone package is available in the support repository at <https://pkg.oracle.com/solaris/support>. It is also available as a separate download at [Timezone Data File Package for Oracle Solaris 11 \(Doc ID 2135137.1\)](#). If a newer version is listed in this document, proceed with performing the following steps to update to the latest timezone package.

Unlock the timezone package from the constraints on the system:

```
# pkg change-facet version-lock.system/data/timezone=false
# pkg update timezone
```

Note: When a package is unlocked, it may no longer be updated when the system is updated depending upon how the update is performed. If the update is performed using the `pkg update entire@<sru number>` command, then the timezone package will not be updated. If the update is performed using the `pkg update` command, then the timezone package will be updated.

Once you have successfully updated the package, you should relock the package:

```
# pkg change-facet version-lock.system/data/timezone=none
```

Note 5: Installing updated Java versions

The latest Java packages are available in the support repository at <https://pkg.oracle.com/solaris/support>. They are also available as a separate download at [Java Patches for Solaris Packages \(Doc ID 1397756.1\)](#). If newer versions are listed in this document, proceed with performing the following steps to update to the latest versions of Java.

You will first need to unlock the Java package from the constraints on the system, and then update the package.

Note: When a package is unlocked, it may no longer be updated when the system is updated depending upon how the update is performed. If the update is performed using the `pkg update entire@<sru number>` command, then the Java package will not be updated. If the update is performed using the `pkg update` command, then the Java package will be updated.

Unlock the Java 8 package from the constraints on the system:

```
# pkg change-facet version-lock.consolidation/java-8/java-8-incorporation=false
# pkg update java-8-incorporation
```

Once you have successfully updated the package, you should relock the package:

```
# pkg change-facet version-lock.consolidation/java-8/java-8-incorporation=none
```

To update Java 7 packages, unlock the constraints on the system:

```
# pkg change-facet version-lock.consolidation/java-7/java-7-incorporation=false
# pkg update java-7-incorporation@1.7.0.241
```

Once you have successfully updated the package, you should relock the package:

```
# pkg change-facet version-lock.consolidation/java-7/java-7-incorporation=none
```

Note: The version of the package at the end of the FMRI may change when new versions of Java 7 become available.

Note 6: HMP and fwupdate in Oracle Solaris 11.4 SRU

Note with Oracle Solaris 11.4 the `fwupdate` command will encrypt data sent over the network to ILOM and certificate checking is enabled by default. For more details on `fwupdate` usage, command line options and obtaining SSL certificates, see [Oracle Server CLI Tools for Oracle Solaris 11.4 User's Guide](#). If appropriate, the certification checking can be disabled with the `--no-cert-check` command line option.

Note 7: Updating from OpenSSH 7.5 to OpenSSH 7.7

The update from OpenSSH 7.5 to OpenSSH 7.7 contains the following potentially incompatible changes:

- `ssh(1)`: delete SSH protocol version 1 support, associated configuration options and documentation.
- `ssh(1)/sshd(8)`: remove support for the `hmac-ripemd160` MAC.
- `ssh(1)/sshd(8)`: remove support for the `arcfour`, `blowfish` and `CAST` ciphers.
- Refuse RSA keys <1024 bits in length and improve reporting for keys that do not meet this requirement.
- `ssh(1)`: do not offer CBC ciphers by default.
- `ssh(1)/sshd(8)`: Drop compatibility support for some very old SSH implementations, including `ssh.com <=2.*` and `OpenSSH <= 3.*`. These versions were all released in or before 2001 and predate the final SSH RFCs. The support in question isn't necessary for RFC-compliant SSH implementations.

Note 8: LDoms commands may fail after upgrading M7/M8 machines to Oracle Solaris 11.4.6 or later if system firmware is out of date (Bug 29305810)

If you are running LDoms or other software accessing ILOM on SPARC machines installed with Oracle Solaris 11.4.6, the SysFW should have the minimum version of 9.8.

If this is not performed, the LDom commands may fail with:

```
The requested operation could not be performed because the communication
channel between the LDoms Manager and the system controller is down.
The ILOM interconnect may be disabled or down.
```

This may also be seen in the log files:

```
/var/svc/log/network-ilomconfig-interconnect:default.log
/var/svc/log/system-sp-management:default.log
```

with the following message:

```
Could not open bmc device: Resource temporarily unavailable
```

Note 9: /usr/bin/grep command and -w option

There has been a latent bug within the '/usr/bin/grep' command such that when used with the -w option it did not correctly report on the patterns it was supposed to match. This has been present for a while. The bug is now fixed however this may mean that more results are returned to any script that uses the command.

Example 1: Use of -iw can return less lines than it should

```
$ cat testfile
pattern
pattern-one
pattern-two
```

Prior to the fix:

```
$ grep -w pattern testfile
pattern
pattern-one
pattern-two
$ grep -iw pattern testfile
pattern
```

Post fix:

```
$ grep -w pattern testfile
pattern
pattern-one
pattern-two
$ grep -iw pattern testfile
pattern
pattern-one
pattern-two
```

Example 2: grep -w will omit the last line

```
$ cat testfile
pattern
pattern-one
$ grep pattern testfile
pattern
pattern-one
$ grep -w pattern testfile
pattern
```

Post fix:

```
$ grep -w pattern testfile
pattern
pattern-one
```

Please note that /usr/xpg4/bin/grep was not affected by this issue.

Note 10: FMRI change in support/explorer

As Explorer is release agnostic, the OS portion of the FMRI will no longer be reported together with that for support/explorer from Explorer 19.2 onwards.

Note 11: Python 3.7 replacing Python 2.7

With the EOF of Python 2.7 (see [Python 2.7 Countdown](#)), Python 3.7 is the new default replacement. Python 3.7 has been in the SRU since Oracle Solaris 11.4 SRU 12.

Note 12: Systems with NVIDIA Fermi GPUs

Systems with NVIDIA Fermi GPUs need to uninstall driver/graphics/nvidia and install driver/graphics/nvidiaR390.

Note 13: Querying the solaris-11-cpu package for list of CVEs

The solaris-11-cpu package which is published for each and every SRU contains a list of the CVEs that have been addressed in the SRUs. The CVE list can be generated by running the following command:

```
# pkg search -o value :info.cve:
```

Or if the package is not installed:

```
# pkg search -r -o value :info.cve:
```

Note 14: snmpd.conf should be readable only to owner (Bug 30159738)

When the updated system/management/snmp/net-snmp package is installed on an existing Solaris machine, a new file /etc/net-snmp/snmp/snmpd.conf.new is created. This new file will have the correct permissions. The original file /etc/net-snmp/snmp/snmpd.conf (which could be customized) will not be altered.

Customer/System Administrators have two options to get the fix:

1. Modify the permission of /etc/net-snmp/snmp/snmpd.conf as per the permissions of /etc/net-snmp/snmp/snmpd.conf.new.
2. Merge the changes from /etc/net-snmp/snmp/snmpd.conf to the new file /etc/net-snmp/snmp/snmpd.conf.new.

Rename /etc/net-snmp/snmp/snmpd.conf as /etc/net-snmp/snmp/snmpd.conf.old.

Rename /etc/net-snmp/snmp/snmpd.conf.new as /etc/net-snmp/snmp/snmpd.conf.

Note 15: Updates to 11.4 SRU 21 are blocked by instantclient-incorporation (Bug 31069861)

This issue is documented in [Doc ID 2720920.1](#).

Note 16: Solaris Server Printing in Oracle Solaris 11.4 SRU 21

The printing software in Oracle Solaris 11.4 SRU 21 has been updated. See [Migrating to latest Printing software on Oracle Solaris 11.4 SRU 21 and higher](#) for more information.

Note 17: Grid Infrastructure 19 on Oracle Solaris 11.4 SRU 21

In order to install Grid Infrastructure 19 on Oracle Solaris 11.4 SRU 21 please ensure you have Grid and DB patched to at least the January 2020 Release Update. See the [Master Note for Database Proactive Patch Program \(Doc ID 756671.1\)](#) for further details.

Note 18: svc:/network/winbind service and Oracle Solaris 11.4 SRU 21 (31283847)

If you do not have the svc:/network/winbind service enabled and you do not set the nss_winbind backend in nss (svc:/system/name-service/switch service) then you can safely skip this warning.

Look up of non-existing identity in "passwd" or "group" table will hang the name service cache daemon, nscd, for approximately 10 minutes. This is because the winbind service daemon, winbindd, will re-query nss-stack again.

"Hangs of approximately 10 minutes may also be seen after system boot with the above configuration, if services running at system boot time attempt to look up non existing users."

Note 19: Oracle Solaris 11.4 SRU 24 installation from the text-install ISO fails on systems with low memory (Bug 31492727)

With the move to Python 3, out of memory issues can be observed when installing or updating to Oracle Solaris 11.4 SRU 24 from a text-install ISO. To mitigate this, a minimum system requirement of 8GB RAM and 2GB of swap is recommended.

Note 20: Potential nvme performance regressions on Oracle SPARC systems with Hardware BTI Mitigation enabled (31796983)

Some Oracle SPARC systems with Hardware Branch Target Injection mitigation (HW_BTI) enabled may see performance regressions with nvme read/write operations of up to 20% in certain conditions. As stated in the [Protecting Platforms Against Speculative Execution Attacks documentation](#), this is a potential consequence of enabling this mitigation.

For more information on the potential performance impacts of HW_BTI, see [Doc ID 2386271.1](#).

So far, these regressions have not been seen on Fujitsu SPARC or any x86 based systems.

Note 21: TLS 1.0 and TLS 1.1 are disabled in Apache Web server (Bug 28922797)

From Oracle Solaris 11.4 SRU 21 onwards, usage of TLS protocol versions 1.0 and 1.1 is intentionally no longer allowed by Apache Web Server.

Note 22: Removal of TLS1.0 and TLS1.1 from pkg.oracle.com

Due to security issues and wishing to protect our customers, TLS 1.0 to TLS 1.1 will no longer be supported as an access method to Oracle Solaris repositories on pkg.oracle.com from October 2020. This means that any client directly accessing them must be running Oracle Solaris 11.2 or later. Further details can be found in [Doc ID 2708452.1](#).

Note 23: Known pkg update issues

Known pkg update issues are documented in [Important Oracle Solaris 11.4 SRU Issues \(Doc ID 2445150.1\)](#). Be sure to read this document for the latest information, particularly if using non C or UTF-8 locales.

Note 24: GNOME 3.38 in Oracle Solaris 11.4 SRU 36

The GNOME desktop has been updated to GNOME 3.38. Most everything should work as normal, but if you had any customization done to the Solaris desktop, ie. gnome-shell-extensions, those might need to be re-done post update.

Starting with GNOME 3.28, upstream has removed the concept of desktop icons (readily noticeable if you are running gnome-classic with the file-manager, trash-bin icons). If you want to re-enable them, they are available from [extensions.gnome.org](#) as a gnome-shell extension going forward.

Note 25: Default python mediator change in Oracle Solaris 11.4 SRU 30

Starting with Oracle Solaris 11.4 SRU 30, the default 'python' mediator value is now set to python version 3.7 instead of 2.7. If you rely on `/usr/bin/python` being version 2.7, you will need to change the mediator back to that value:

```
# pkg set-mediator -V 2.7 python
```

This change doesn't affect those who explicitly set this mediator before; only the default is affected.

Please note that Python 2.7 is slated for removal in a future SRU so the above solution is just a temporary one.

Note 26: Error installing Oracle Database 12c and 18c on Oracle Solaris 11.4 SRU 27 (32380608)

Users attempting to install Oracle Database 12c or 18c on Oracle Solaris 11.4 SRU 27 or later may see the following error at the "Create Databases" step of installation:

```
oracle.install.commons.base.prereq.PrereqCheckerJob logTaskOverallResult
INFO: Hard Limit: maximum open file descriptors: This is a prerequisite
condition to test whether the hard limit for maximum open file descriptors is
set correctly.
```

The `-ignorePrereqFailure` flag can be used during install to allow successful installation. Alternatively, the following may be used as a workaround:

```
# echo set rlim_fd_max = 65536 > /etc/system.d/oldfdlimit
# reboot
```

Other versions of Oracle Database are not impacted by this.

Note 27: 32-bit Pass-Through Volatile FOSS libraries might be removed without warning in Oracle Solaris 11.4 SRU's

32-bit FOSS libraries with declared interface stability levels of "Pass-Through Volatile" might be removed without warning from Oracle Solaris 11.4 SRUs. This may occur due to changes in the upstream products, or products they depend on, which make delivering 32-bit libraries unsupportable.

Note 28: Pango 1.46.2

With the pango update to 1.46.2, users using non-default fonts might experience some issues because of the dropped support for Type1 and bitmap fonts upstream starting in version 1.44.0. Details of this change from the upstream community is discussed in [Pango 1.44 and the removal of support for bitmap fonts](#).

Note 29: Oracle Solaris Cluster customers will need to update cluster version if updating to Oracle Solaris 11.4 SRU 33 or later

Due to changes introduced in Oracle Solaris 11.4 SRU 33, Oracle Solaris Cluster customers who upgrade to this SRU or higher will also need to upgrade their version of Oracle Solaris Cluster to Oracle Solaris Cluster 4.4 SRU 10 or higher. An optional dependency has been added so that customers who have Oracle Solaris Cluster installed will automatically update Oracle Solaris Cluster if updating past Oracle Solaris 11.4 SRU 33. Customers who do not have Oracle Solaris Cluster installed will not be impacted.

Note 30: /usr/bin/awk mediator link

From Oracle Solaris 11.4.33 onwards /usr/bin/awk is a mediated link, allowing the administrator to choose if /usr/bin/awk is provided by oawk or nawk. The system default is to use /usr/bin/nawk as /usr/bin/awk.

Note that there are a small number of incompatible behaviors between the oawk and nawk implementations.

Note 31: Change to uname(1) output in Oracle Solaris 11.4.36

Starting with Oracle Solaris 11.4.36 the output of the uname(1) command when given the '-a' option (to display all fields) will include the current virtualization platform. This can also be explicitly selected by using 'uname -v'. This is equivalent to the values returned by the virtinfo(8) command.

Note 32: Added support for listing Zone description via zoneadm(8) in Oracle Solaris 11.4.39 (E32832402)

The Zone description is usually listed by specifying the -d option to "zoneadm list". The one exception is "zoneadm list -p" which produces a machine parsable output. The new enhancement modified "zoneadm list -p" so it prints the description field as the new rightmost column.

Please note that while "zoneadm list -p" has always been documented as extensible in the zoneadm(8) manual page with regard to the number of columns displayed, care should be taken with existing scripts that have been using this interface. It is recommended to verify that such scripts do not assume a fixed number of columns in the "zoneadm list -p" output.

Note 33: Removal of wifi drivers and Direct Rendering Infrastructure (DRI) in Oracle Solaris 11.4.36

With the wifi drivers and Direct Rendering Infrastructure (DRI) being removed in Oracle Solaris 11.4.36, it is recommended that bare metal laptop users investigate alternative methods of installing Solaris such as using VirtualBox.

Solaris users who are currently using the Intel/modesetting Xorg driver to drive the Intel native graphics will notice the change since it will now default to vesa with the DRI removal.

Note 34: vHBA discovery will fail if the LDoms guest domain is upgraded prior to the service domain

Ensure the vHBA service domain (i.e. the one providing the vHBA services via the 'vsan' module) is upgraded to at least Oracle Solaris 11.4 SRU 39 prior to upgrading any guest domains utilizing that vsan instance to SRU 39 or later. If the guest domain is upgraded first, the vHBA subsystem will not be able to discover devices and will produce the following message to the syslog each time it tries:

```
WARNING: vh@0 vhma(1.2) and vsan(1.0) VIO version mismatch; Device Discovery is disabled.
```

Note 35: C.UTF-8 locale

The C.UTF-8 locale is an update to the POSIX standards-compliant C locale that adds the UTF-8 character set. Only the following environment variable values differ from the C locale:

- LC_CTYPE - Covers all Unicode characters
- LC_COLLATION - Sorts based on the Unicode character code points

Note 36: Removal of Python 2.7 dependencies in Oracle Solaris 11.4.42

Starting with Oracle Solaris 11.4.42 (Oracle Solaris 11.4 SRU 42) most dependencies on Python 2.7 have been removed and the Python 2.7 runtime and modules are no longer installed by default. Python 2.7 is not, at this time, automatically removed on upgrade to 11.4.42 (or later) from an earlier SRU.

If you wish to remove the Python 2.7 runtime and modules and you know that no applications/tools depend on them you can choose to do so.

A future SRU may mark the Python 2.7 runtime/modules as obsolete, which would result in their removal on upgrade.

Note 37: /var/share/cores separate file system in Oracle Solaris 11.4.42

From Oracle Solaris 11.4.42 onwards, the global core file directory /var/share/cores is a separate file system. On upgrade to 11.4.42 or later any existing contents of /var/share/cores will be migrated to the new file system.

Before rebooting into the new BE consider removing core files that are no longer needed to minimize any delay while migrating files.

Note 38: OpenSSL 3.0 in Oracle Solaris 11.4.42

OpenSSL 3.0 is available in this release, via `pkg:/library/security/openssl-3`, but is not yet installed by default. Oracle Solaris 11.4 delivered consumers will migrate from OpenSSL 1.0.2 or 1.1.1 in future SRUs.

Note that in OpenSSL 3.0 some older/weak cryptographic algorithms are no longer available by default, they can be made available in Oracle Solaris by installing the legacy provider package: `pkg:/library/security/openssl-3/legacy-provider` and changing the activate property in `/etc/openssl/3/conf.d/legacymodule.cnf`.

For OpenSSL 3.0 with FIPS 140-2 mode of operation install the additional `pkg:/library/security/openssl-3/fips-140-provider`.

[Contents](#)

Bugs Fixed

Each SRU provides bug fixes and incremental changes that are relative to the preceding release, for example Oracle Solaris 11.4. The following additional bugs are fixed in this SRU:

Bug	Synopsis
15237638	nftw() is still tricked by symlinks
19215152	smp transport packet's timeout value should be tunable
20243343	zpool import and zfs set mountpoint - mntopts options should be validated
21464666	nsd.1m typo: Was nsd doesn't refresh after to update or refresh the DNS/client
21775986	Redirect from http to https does not happen if only one TLS version is selected.
21826326	vlds module has swapped arguments to memset
23076455	Cannot create new BE on server deployed by UA image due source contains snapshots
23756660	split is super-slow due to getc
24333937	The kproc target steadfastly believes it's a crash dump, not a live kernel
24434766	rename "idmu" mapping mode to "rfc2307"
25444201	nsd.conf: Disabling hosts caching does not disable ipnodes caching
25766028	nvme interrupt: driver occasionally panics on boot on T4-1
27299690	Logging improvements phase 2
27721134	add C.UTF-8 locale to Solaris
27917592	Idmconsole needs -e to define the escape character to use
27999227	update KMIP client library (libkmip) to support KMIP specification 1.4
28029671	Add LDoms migration-class2 support for M7/T7/S7/M8/T8 platforms
29187370	KPTI should be enabled by default on all x86 systems
29213476	EOF of Solaris WIFI framework
30304106	Problem with g11n/im-ibus
30328178	Vanity net names associated with NIC physical links change during and after OS text install
31206139	nsd -f configuration-file : displays usage even though its a valid option as shown by that usage.
31272902	find(1) does not work when \$PWD is too large
31378760	nsd core dumps in Solaris 11.4 (user_attr edge case in AD w/no user_attr)
31571472	find(1) does not take into account the size of the -exec command.

31709625	libzpool's taskq_member may check freed taskq
31753895	Cannot install non-global zones when two publishers each require unique ssl certificates
31860846	disable optimized Montgomery squaring procedure for SPARCv9 IALU
31991570	Idm migrate non-standard logging
32139312	prepare for nvme LED support, remove 'sas' from 'ledctl' files/APIs
32139313	'ledctl' should be based on name/color, not device/color
32141383	Problem with utility/junit
32257748	want mdb d-cmd to walk NIC driver softstate structures
32321030	Problem with utility/php
32373492	High CPU usage with KRB NFS shares
32425018	zfs get should display property values and sources of resumable datasets
32458925	deliver python 3.9 modules for pkg
32495761	auto-update-cleanup method script blows up if run directly
32560801	softtoken does not have protection against concurrent run of same operations on the same session
32575338	swap default cap of 4GB and calculated dump vol size are not suitable in general
32576052	Sense page management should be aware of removable media
32587681	nvme dma: no need to use ddi_put64() to fill in PRP list entries, etc
32668046	SMF failover_limit template description is wrong
32679276	Missing data from auto-update service log file
32702124	KMIP error number to string function
32737604	svcs manpage doesn't state next run property correctly
32740923	zpool status/import -s should be hardened against passing iostat devprops
32776637	::devinfo should show devi_tref count
32817728	nvme_x_quiesce needs to deal with MSI and MSIX interrupts
32835838	Add mremap to Solaris
32853726	Forced speed/duplex on CX-5 25Gb port doesn't work correctly
32853966	typo in error of ln(1)
32873725	zpool import -o mntopts is broken and coredumps when passed 'mountpoint'
32899707	implement sepatate bay:disk NVME binding method that is not dependent on disk@1 namespace
32911144	Improve HTTP tunneling in buildbot worker to support tls
32921734	improve bay.so 'nvme-bay-labels' suppression logic
32942237	sun4vpi.so: compensate for platforms that misuse topo-skip in their PRI/MD
32944107	nvme.conf: AIC should use AIC/NVME in NAC name
32955566	zoneadm migrate ignores SSH agent
32955820	pmcs_flush_nonio_cmds completes requests with missing data
32956938	Add Aura-9 AIC Flash Accelerator topo support
32962396	Dump fails with Samsung (SGL-mode) system disks
32972028	zpool status/import -s should also display allocated and allocatable vdev space
32973962	some current sd_panic_for_res_conflict() conditions should avoid panic

32976653	EOF Node.js 12: Removal
32980524	after running 'pktool init' the server group and client keystore dir are renamed with trailing spaces
32982852	svc-pkg-auto-update should use smf_include wrapper
32991874	sshd core dumped on 98 with ADI deferred mismatch error
32996078	zpool dump a core at nvlist_lookup_common
33004256	improve nvme driver logging
33019230	nvmet assert panic when attempting to delete submission queues during unsolicited hotplug testing
33025837	unable to revert coreadm global core pattern to default
33041676	race in nvmet_handle_fatal() could end up leaving interrupts disabled
33041728	nvme driver doesn't look like it works with MSI
33041836	no naked disk node created in bay if nvme device fails to attach properly
33048535	tar extraction failed if the tar file contains the duplicated hardlink files
33059081	iotop does not show uid, pid and ppid
33065049	possible error-handling bug when starting NFS service on Cluster
33067767	disable auto-update services in nonglobal zones
33089783	errors seen in sparcs install log: awk: unknown option -e ignored
33094646	rpcsec_gss would benefit from xbuf logging
33130486	deliver OpenSSL 3.0
33131523	Invalid BIOS boot device entry for bootable NVMe drive
33133011	race condition between nm_unmount() and nm_sync()
33135472	policy.conf fails pkg verify when stenciled
33135534	sshd_config fails pkg verify when stenciled
33139495	Setting handlers for SIGSEGV/SIGBUS to SIG_IGN is no longer inherited
33143824	odoc-import service in maintenance > import-index failed: 'NoneType' object is not subscriptable
33161093	disklog: automatic log collection fails during fault handling on Samsung NVMe drives
33161852	Urgent mechanism for TCP seems to be broken in Solaris 11.4
33161938	plimit options don't scale to modern memory/file sizes
33180683	Add a variable to the auto-update service to control creation of backup BEs
33183176	NLST command handler should treat paths beginning with './' as local (relative to cwd)
33189698	sync destroy that depends on zombie may deadlock with pool export
33195216	Archiveadm create fails on sshd HostKeyAlgorithms option
33195316	The zonecfg description property rejects some ASCII characters
33206610	number of ARC evict threads should be increased
33209188	pkg://solaris/system/library/accountsservices have incorrect permissions
33211291	Document new LDOMs migration-class2 support for M7/T7/S7/M8/T8 platforms
33214314	UAR install fails with IndexError: pop from empty list
33217870	zoneadm list -p and -d shouldn't be mixed together
33239798	mlxne driver defaults on SPARC need improving

33240811	file should show zone name and image type from KZ dump images
33247266	Install image services going in to maintenance still raise ASR
33247886	libumem disables ADI when only adistack is enabled
33248337	irssi uses unacceptable OpenSSL defaults
33249446	implement an initialization window for INTEL ADP that set RDY too early
33250317	proftpd uses unacceptable OpenSSL defaults
33252665	libumem cannot find 64 bit symbols on SPARC
33254885	mutt uses unacceptable OpenSSL ciphers
33254928	pkg/depot uses unacceptable TLS protocols
33264354	sysadm evacuate should provide detailed progress messages
33265468	intrd mem leaks on T[57] LDomS
33266956	vsan should not return TLs when a TargetPort is disabled under MPxIO
33267223	chgrp(1) & system(5) should stop describing rstchown system option
33268871	fetchmail uses unacceptable OpenSSL defaults
33272944	vntsd(8) man page: adding a new vntsd smf. property ---escape character
33274810	EOF PHP 7.3: Move to legacy state
33280653	update meson to 0.59.2
33284437	Update at-spi2-core to 2.40.3
33285165	Problem with utility/fetchmail
33285176	Update atkmm to 2.28.2
33285391	update gtksourceview to 4.8.1 and do a pkg rename
33285763	Update grilo-plugins to 0.3.13
33285973	Update gsound to 1.0.3
33286284	Add freezero() to zero buffers when freeing them
33290042	Update gtk-vnc to 1.2.0
33290438	Update libgee to 0.20.4
33290582	Update libgxps to 0.3.2
33292536	Update libssh2 to 1.10.0
33297685	deadman panic due to predictor not running during a shortage
33298228	update gedit and gedit-plugins to 3.34.0
33298239	update gnome-calculator to 3.34.0
33298255	update meld to 3.21.0
33316806	Puppet packaging changes and EOF of Puppet 5.5 master
33317070	EOF Zenmap & Ndiff: Move to legacy state
33317308	EOF Mailman: Move to legacy state
33317480	winbind recursion avoidance is incompatible with nscd
33317732	Upgrade six to 1.16.0
33318013	Upgrade beautifulsoup4 to 4.9.3
33318192	sysadm evacuate messages order can be confusing

33319294	consistency with 'nsid' for device endian, 'ns' for native endian
33323953	LDoms MIB: add new migration-class2 support for M7/T7/S7/M8/T8 platforms
33327656	Upgrade dateutil to 2.8.2
33327663	Upgrade debtcollector to 2.3.0
33327674	Upgrade Jinja2 to 3.0.1
33327682	Upgrade MarkupSafe to 2.0.1
33327688	Upgrade msgpack to 1.0.2
33327689	Upgrade netifaces to 0.11.0
33327695	Upgrade oslo.config to 8.7.1
33327697	Upgrade oslo.context to 3.3.1
33327699	Upgrade oslo.i18n to 5.1.0
33327701	Upgrade oslo.log to 4.6.0
33327704	Upgrade oslo.serialization to 4.2.0
33327709	Upgrade oslo.utils to 4.10.0
33327714	Upgrade pbr to 5.6.0
33327715	Upgrade pyparsing to 2.4.7
33327719	Upgrade pytz to 2021.1
33327721	Upgrade rfc3986 to 1.5.0
33327724	Upgrade simplejson to 3.17.5
33327729	Upgrade stevedore to 3.4.0
33329330	More man pages should list privileges or profiles instead of "super user"
33330962	EOF cloog: move to legacy state
33333583	Problem with library/gd2
33336661	EMC LUNZ failure since S11.4 SRU36
33337280	EOF of Distributed Multihead X (DMX): Move to legacy state
33337470	Disable DMX support in xdpinfo
33346961	failed to remove a file with xattrs from ZFS filesystem when data quota is exceeded
33352055	zboot does not upgrade correctly after 11.5 to 11.4 transition
33352304	Problem with utility/imagemagick
33353492	CX-5 driver support for cqe compression
33355914	Update libhandy to 1.4.0
33357628	update NSS to 3.70
33362038	Problem with utility/vim
33362988	Update SCons to version 4.2.0
33367210	Performance impact in st_103 vdbench with synchronous IO
33367399	Update fetchmail to version 6.4.22
33375380	ptools should use nicenum/nicestr
33376965	Deprecate getpw(3c)

33378684	Updated coreadm default settings
33387332	Live debugging a program with ADI errors gives mdb an ADI error
33387788	Solaris NFS client READDIRPLUS storm after Isilon NFS server upgrade
33387843	drop support for unused nicenum() insurance policy options
33388017	update devhelp to 41.1
33388210	update to several gnome/applications
33391370	nicenum() needs to respect i18n
33403305	Problem with kernel/streams
33411562	vdev paths auto-correct should use consistent pool config
33415685	Deliver python packaging in Solaris
33425972	Problem with library/ncurses
33426477	Deliver python importlib-metadata in Solaris
33426479	Deliver python typing-extensions in Solaris
33426480	Deliver python zipp in Solaris
33429320	beadm destroy shows slightly different message in Japanese
33429464	update puppetlabs-apache to 5.10.0
33430933	Problem with utility/apache
33430955	Problem with utility/apache
33431575	add ansible(1) man page and deliver it with Ansible
33440018	Remove gconf-cache from distro_const/profile/generic.xml
33448793	::whatis -l and -b options not documented in ::help whatis
33454309	radadrgen breaks in presence of new C.UTF-8 locale
33455893	EOF the RCM SVM module
33458595	Update gnome-backgrounds to 41.0
33458612	Update gnome-desktop to 41.0
33458622	Update gnome-keyring to 40.0
33458624	Update gnome-system-monitor to 41.0
33460505	OCI instance firewall config should restrict iSCSI connections
33462950	Problem with utility/nodejs
33462983	Upgrade Node.js to version 16.11.1
33462986	Upgrade Node.js to version 14.18.1
33465689	Update poppler to version 21.10.0
33468985	Upgrade HPLIP to 3.21.8
33469366	Upgrade PAPS to 0.20211014
33473523	zfs need not disable fast reboot in zio_suspend() context
33480886	Add \$TZ information to sulog(5) man page
33483345	Deliver Sphinx in Solaris
33483348	Deliver Alabaster Sphinx theme in Solaris
33483352	Deliver Docutils in Solaris

33485812	update pango to 1.48.10
33491046	PCI-E timeout completion panics on OCI E2/3/4 bare metal instances
33491803	Problem with utility/vim
33493473	Update buildbot-worker to version 3.4.0
33497828	NGZ cannot import ZFS pool if hostid is set
33498733	split should use nicestr() and needs a general refresh
33502004	Update gsettings-desktop-schemas to 41.0
33504083	Update vte to 0.66.0
33504418	Update totem to 3.38.2
33505579	Update totem-pl-parser to 3.26.6
33507931	EOF libzapojit: Move to legacy state
33509261	Problem with library/webkitgtk
33509496	cloud-init script for OCI broken since STB108N211021
33509542	update webkitgtk to 2.34.1
33514079	Add command to unbind all guests
33515842	Update sushi to 41.0
33521676	Zones cannot access repos using port 80
33522791	Update Perl Tk module to 804.036
33526438	update CA certificates as of Mozilla NSS changeset ed21a4b608a6
33531722	LC_CTYPE is missing for C.UTF-8 locale
33534552	Update hexedit to version 1.5
33535474	Upgrade libgd to version 2.3.3
33536078	HostKey directives may be omitted from sshd_config
33537167	Document new options for ldm unbind
33538330	Problem with utility/smf
33538503	Update sg3_utils to version 1.46
33539857	Update to ncurses 6.3
33541002	Update nano to version 5.9
33541324	Update mutt to version 2.1.3
33549758	Problem with utility/vim
33553032	mlxng hang when card is configured in IB mode
33553358	environ(7) should document default TZ
33555035	Update Valgrind to 3.18.1
33557379	Problem with utility/samba
33559536	mdb should allow truncated options
33559879	Upgrade MySQL 5.7 to 5.7.36 in Solaris
33560878	Update pyobject3 to 3.42.0
33562525	Problem with database/mysql

33563268	Remove of pkg:/library/samba/libsmclient
33564099	secret-tool(1) reads passwords up to 8 characters from terminal
33564202	pwhash is core dumping if -a or -u arguments are invalid
33566078	update libmediaart to 1.9.5
33566458	Problem with utility/mailman
33567388	update gnome-autoar to 0.4.1
33569979	Unable to apply new coreadm configurations
33570149	auto-update should avoid maintenance for temporary issues
33573669	luxadm -e dev_reset command returns with failure
33574072	Update gnome-devel-docs to 40.3
33574074	Update gnome-user-docs to 41.0
33576307	minor update to gnome-shell 3.38.6
33578289	Update hg-python mediator vendor-priority to 3.7
33583177	Update bash to latest patch bash51-012
33587792	Samba: uprev to 4.13.14
33587809	Changing Current Speed not persistent through reboots/power-off for Emulex 7115461 (32G)
33589642	After rebooting global zone Some zones went to maintenance state
33590735	update gtk3 to 3.24.30
33595525	Update glibmm to 2.66.2
33595655	Update orca to 41.0
33605122	Problem with utility/vim
33610846	Upgrade ModSecurity to version 2.9.5
33610856	Problem with utility/apache
33615554	Upgrade diffstat to 1.64
33616803	zonecfg(8) should say roozpool/zpool resources may create ZFS mirror
33616839	solaris(7) man page should not have SUB-COMMANDS section
33616881	solaris(7) man page does not say rootzpool resource is not live reconfigurable
33620036	Problem with library/nss
33621156	rpool-config missing 3rd outcome of curl invocation, falsely triggering zpool reguid
33626748	update libexif to 0.6.24
33626756	Problem with library/libexif
33634148	Problem with utility/pip
33640344	Problem with utility/vim
33644896	Problem with python-mod/django
33648840	Problem with utility/vim
33649132	Upgrade Django 2.2 to version 2.2.25
33649133	Upgrade Django 3.2 to version 3.2.10
33649692	Problem with x11/xorg-server
33667206	Deliver /etc/X11/xinit/xinitrc as executable

33684653	Powertop may endlessly create new DTrace states till panic
33690282	Upgrade Apache Web Server to version 2.4.52
33690290	Problem with utility/apache
33719067	Problem with gate-stuff/javavm
33719084	Problem with gate-stuff/javavm
33745389	Problem with library/polkit

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Packages Updated

The following packages are updated in this SRU:

Package	Summary
compress/zip	Info-Zip (zip)
consolidation/osnet/osnet-incorporation	OS/Net consolidation incorporation
consolidation/userland/userland-incorporation	userland consolidation incorporation (consolidation/userland/userland-incorporation)
data/sgml-common	Common SGML catalog and DTD files
data/shared-mime-info	shared-mime-info database
data/xml-common	Common XML catalog and DTD files
database/mysql-57	MySQL 5.7 Database Management System
database/mysql-57/client	MySQL 5.7 Client Executables
database/mysql-57/embedded	MySQL 5.7 embedded library
database/mysql-57/library	MySQL 5.7 client libraries and plugins
database/mysql-57/tests	MySQL 5.7 testsuite
database/oracle/instantclient-121	Oracle Instant Client runtime
database/oracle/instantclient-122	Oracle Instant Client runtime
database/oracle/instantclient-183	Oracle Instant Client runtime
database/oracle/instantclient/jdbc-supplement-121	Oracle Instant Client JDBC supplement
database/oracle/instantclient/jdbc-supplement-122	Oracle Instant Client JDBC supplement
database/oracle/instantclient/jdbc-supplement-183	Oracle Instant Client JDBC supplement
database/oracle/instantclient/odbc-supplement-121	Oracle Instant Client ODBC supplement
database/oracle/instantclient/odbc-supplement-122	Oracle Instant Client ODBC supplement
database/oracle/instantclient/odbc-supplement-183	Oracle Instant Client ODBC supplement
desktop/pdf-viewer/poppler-viewer	Poppler PDF viewer
desktop/remote-desktop/tigervnc	TigerVNC client
desktop/system-monitor/gnome-system-monitor	The GNOME tool to manage running processes and monitor system resources
desktop/xdg/desktop-file-utils	Utilities for manipulating .desktop files
developer/build/cmake	A cross-platform, open-source make system
developer/build/meson	Meson Build System
developer/build/scons	SCons - software construction tool
developer/debug/scat	solariscat - Crash dump analysis tool
developer/debug/valgrind	Valgrind, debugging and profiling tool
developer/documentation-tool/docutils	Docutils - Python Documentation Utilities
developer/documentation-tool/sphinx	Sphinx - Python documentation generator
developer/documentation-tool/sphinx/alabaster	A configurable sidebar-enabled Sphinx theme

developer/gnome/devhelp	API documentation browser
developer/icu	International Components for Unicode
developer/java/jdk	Java Platform Standard Edition Development Kit (VERSION) java -version will display 1.7.0_331-b06
developer/java/jdk-7	Java Platform Standard Edition Development Kit (1.7.0_331-b06)
developer/java/jdk-8	Java Platform Standard Edition Development Kit (1.8.0_321-b07)
developer/java/junit	Junit - Java unit testing framework
developer/meld	meld - graphical diff and merge tool
developer/nasm	Netwide Assembler
developer/opensolaris/pkg5	Dependencies required to build the pkg(7) project
developer/oracle/instantclient/sdk-121	Oracle Instant Client SDK
developer/oracle/instantclient/sdk-122	Oracle Instant Client SDK
developer/oracle/instantclient/sdk-183	Oracle Instant Client SDK
developer/python/pylint	pylint - python code static checker
developer/python/pylint-27	pylint - python code static checker
developer/python/pylint-37	pylint - python code static checker
developer/python/pylint-39	pylint - python code static checker
developer/sbsigntool	sbsigntool is a UEFI utility
developer/test/buildbot-worker	Worker daemon for the Buildbot continuous integration framework
developer/versioning/mercurial	The Mercurial Source Control Management System
developer/versioning/mercurial-27	The Mercurial Source Control Management System
developer/versioning/mercurial-37	The Mercurial Source Control Management System
developer/versioning/mercurial/hg-git	Hg-Git Mercurial extension
developer/versioning/mercurial/hg-git-27	Hg-Git Mercurial extension
developer/versioning/mercurial/hg-git-37	Hg-Git Mercurial extension
developer/versioning/mercurial58	The Mercurial Source Control Management System
diagnostic/acpidump	acpidump - utilities used to display ACPI tables
diagnostic/constype	constype - print type of console
diagnostic/nmap	Network exploration tool and security / port scanner.
diagnostic/nmap/zenmap	Network exploration and security / port scanner GUI
diagnostic/wireshark	Graphical network protocol analyzer
diagnostic/wireshark/tshark	Command-line network protocol analyzer
diagnostic/wireshark/wireshark-common	Libraries and Tools used by Wireshark and TShark Network protocol analyzers
documentation/gnome/gnome-devel-docs	GNOME developer documentation
documentation/gnome/gnome-user-docs	The GNOME Desktop User Documentation
editor/gedit	GNOME text editor
editor/gedit/gedit-plugins	gedit plugins
editor/gvim	Vi IMproved (GUI)

editor/hexedit	Hexedit - a command-line binary file editor
editor/nano	nano: a small text editor
editor/vim	Vi IMproved
editor/vim/vim-core	Vi IMproved (core executables)
file/Indir	Indir: create a shadow directory of symbolic links to another directory tree
firmware/system/fallback-boot	Fallback Boot image
gnome/accessibility/orca	Orca screen reader/magnifier
gnome/disk-analyzer/baobab	The GNOME Disk Usage Analyzer
gnome/gnome-calculator	The GNOME Desktop Calculator
gnome/gnome-calendar	Gnome Calendar
gnome/gnome-font-viewer	GNOME Font Viewer and Thumbnailer
gnome/gnome-keyring	A collection of components in GNOME for storing secrets, passwords, keys, and certificates
gnome/gnome-screenshot	The GNOME Screenshot Tool
gnome/gnome-shell	GNOME 3 User Shell
gnome/gsettings-desktop-schemas	A collection of GSettings schemas for settings shared by various components of the GNOME Desktop
gnome/media/totem	A video playback application designed to work with GNOME 3
gnome/theme/background/os-backgrounds	Default Oracle Solaris background for the GNOME desktop
gnome/theme/background/os-backgrounds-extra	Extra Oracle Solaris backgrounds for the GNOME desktop
group/system/solaris-desktop	Oracle Solaris Desktop
group/system/solaris-large-server	Oracle Solaris Large Server
group/system/solaris-small-server	Oracle Solaris Small Server
image/gnome-backgrounds	Selection of backgrounds for the GNOME desktop
image/gnuplot	gnuplot - plotting utility
image/graphviz	Graph visualization software
image/graphviz/graphviz-java	Java bindings for Graphviz
image/graphviz/graphviz-lua	Lua bindings for Graphviz
image/graphviz/graphviz-perl	Perl bindings for Graphviz
image/graphviz/graphviz-perl-532	Perl 5.32 bindings for Graphviz
image/graphviz/graphviz-php	PHP bindings for Graphviz
image/graphviz/graphviz-php-73	PHP 7.3 bindings for Graphviz
image/graphviz/graphviz-php-74	PHP 7.4 bindings for Graphviz
image/graphviz/graphviz-python	Python bindings for Graphviz
image/graphviz/graphviz-python-27	Python 2.7 bindings for Graphviz
image/graphviz/graphviz-python-37	Python 3.7 bindings for Graphviz
image/graphviz/graphviz-python-39	Python 3.9 bindings for Graphviz
image/graphviz/graphviz-ruby	Ruby bindings for Graphviz

image/graphviz/graphviz-sharp	C# bindings for Graphviz
image/graphviz/graphviz-tcl	Tcl bindings for Graphviz
image/imagemagick	ImageMagick - Image Manipulation Utilities and Libraries
image/library/libexif	An EXIF tag parsing library for digital cameras
image/library/libjpeg	jpeg - The Independent JPEG Groups JPEG software
image/library/libpng	Portable Network Graphics library
image/library/libpng14	Portable Network Graphics library version 1.4
image/library/libpng16	Portable Network Graphics library version 1.6
image/library/libsvg	A library to render SVG files using cairo
image/viewer/eog	Eye of GNOME is the GNOME image viewer
legacy/database/mysql-55	MySQL 5.5 Database Management System
legacy/database/mysql-55/client	MySQL 5.5 Client Executables
legacy/database/mysql-55/library	MySQL 5.5 client libraries and plugins
legacy/database/mysql-55/tests	MySQL 5.5 testsuite
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library/cloog	CLooG - The Chunky LOOp Generator
library/desktop/at-spi2-core	The Assistive Technology Service Provider Interface (AT-SPI) Core
library/desktop/c++/atkmm	The official C++ interface for the ATK accessibility toolkit library
library/desktop/gdk-pixbuf	GdkPixbuf library for image loading and manipulation
library/desktop/gnome-autoar	gnome-autoar
library/desktop/graphene	A thin layer of graphic data types
library/desktop/grilo-plugins	A collection of plugins for Grilo
library/desktop/gsound	Library for playing system sounds
library/desktop/gtk-vnc	A GTK widget for VNC clients
library/desktop/gtk2	GTK+ toolkit Version 2.x
library/desktop/gtk2/gtk-backend-cups	GTK+ 2.x - GIMP toolkit libraries - CUPS Print Backend
library/desktop/gtk3	GTK+, or the GIMP Toolkit, is a multi-platform toolkit for creating graphical user interfaces
library/desktop/gtk3/gtk-backend-cups	GTK+ 3.x - GIMP toolkit libraries - CUPS Print Backend
library/desktop/gtksourceview	GNOME syntax highlighting text widget for GTK3
library/desktop/libdazzle	library providing special effects API for GNOME3
library/desktop/libgdata	A GLib-based library for accessing online service APIs using the GData protocol
library/desktop/libgee	A utility library providing GObject-based interfaces and classes for commonly used data structures
library/desktop/libgweather	The location/timezone/weather library/database for GNOME
library/desktop/libgxps	A GObject-based library for handling and rendering XPS documents
library/desktop/libhandy	Building blocks for modern adaptive GNOME applications
library/desktop/pango	Pango international text layout library
library/desktop/webkitgtk4	A library port of the WebKit rendering engine

library/gd	The Graphics Draw Library
library/gmp	GNU Multiple Precision Bignum Library
library/gnome/gnome-desktop	Base GNOME Desktop Component Functionality
library/gnome/libmediaart	The GNOME media art extraction and cache management library
library/gnome/libsecret	A library for storing and retrieving passwords and other secrets
library/gnome/libzapojit	A GLib/GObject wrapper for online service APIs
library/gnome/sushi	The GNOME file previewer for Nautilus
library/gnome/vte3	The GNOME virtual terminal emulator widget library for GTK3+
library/graphics/pixman	Pixman: The pixel-manipulation library for X and Cairo.
library/icu	International Components for Unicode
library/java/java-demo	Java Sample and Demonstration Applications (VERSION) java -version will display 1.7.0_331-b06
library/java/java-demo-7	Java Sample and Demonstration Applications (1.7.0_331-b06)
library/java/java-demo-8	Java Sample and Demonstration Applications (1.8.0_321-b07)
library/javascript/d3	A Javascript visualization library for HTML and SVG
library/lasso	Lasso library
library/libmozjs-78	Mozilla's SpiderMonkey engine JavaScript library v78
library/libssh2	libssh2 - client-side C library implementing the SSH2 protocol
library/media-player/totem-pl-parser	A GObject-based library to parse and write a variety of playlist formats
library/motif	Motif toolkit
library/myspell/dictionaries	Myspell and Hunspell spell dictionary files
library/ncurses	A CRT screen handling and optimization package.
library/perl-5/alien-libxml2-532	Alien::Libxml2 - Install the C libxml2 library on your system
library/perl-5/openscap-532	Perl 5.32 bindings for the Open implementation of SCAP
library/perl-5/perl-tk	CPAN Perl Tk module
library/perl-5/perl-tk-532	CPAN Perl Tk module
library/perl-5/sun-solaris-532	Perl Sun::Solaris Modules
library/print/cups-libs	Common Unix Print System (CUPS) runtime libraries
library/python/asn1crypto	Python ASN.1 library
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library/python/babel-39	Internationalization Utilities for Python
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library/python/debtcollector	A collection of Python deprecation patterns and strategies
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library/python/importlib-metadata-39	Read metadata from Python packages.
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library/python/packaging-39	Core utilities for Python packages.
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library/python/python-twisted	Event-based framework for internet applications
library/python/python-twisted-27	Event-based framework for internet applications
library/python/python-twisted-37	Event-based framework for internet applications
library/python/python-twisted-39	Event-based framework for internet applications
library/python/pytz	Python time zone library
library/python/pytz-27	Python time zone library
library/python/pytz-37	Python time zone library
library/python/pytz-39	Python time zone library
library/python/rfc3986	Validating URI References per RFC 3986.
library/python/rfc3986-27	Validating URI References per RFC 3986.
library/python/rfc3986-37	Validating URI References per RFC 3986.
library/python/rfc3986-39	Validating URI References per RFC 3986.
library/python/setuptools_scm	Package to manage versions by scm tags
library/python/setuptools_scm-27	Package to manage versions by scm tags
library/python/setuptools_scm-37	Package to manage versions by scm tags
library/python/setuptools_scm-39	Package to manage versions by scm tags
library/python/simplejson	JSON (JavaScript Object Notation) encoder/decoder for Python
library/python/simplejson-27	JSON (JavaScript Object Notation) encoder/decoder for Python
library/python/simplejson-37	JSON (JavaScript Object Notation) encoder/decoder for Python
library/python/simplejson-39	JSON (JavaScript Object Notation) encoder/decoder for Python
library/python/six	Python 2 and 3 compatibility utilities
library/python/six-27	Python 2 and 3 compatibility utilities
library/python/six-37	Python 2 and 3 compatibility utilities
library/python/six-39	Python 2 and 3 compatibility utilities
library/python/stevedore	Manage dynamic plugins for Python applications
library/python/stevedore-27	Manage dynamic plugins for Python applications
library/python/stevedore-37	Manage dynamic plugins for Python applications
library/python/stevedore-39	Manage dynamic plugins for Python applications
library/python/testtools	Tasteful testing for Python
library/python/testtools-37	Tasteful testing for Python

library/python/testtools-39	Tasteful testing for Python
library/python/tkinter-39	Python 3.9 bindings to tcl/tk
library/python/typing-extensions	Backported and Experimental Type Hints for Python.
library/python/typing-extensions-37	Backported and Experimental Type Hints for Python.
library/python/typing-extensions-39	Backported and Experimental Type Hints for Python.
library/python/wrapt	A Python module for decorators, wrappers and monkey patching.
library/python/wrapt-27	A Python module for decorators, wrappers and monkey patching.
library/python/wrapt-37	A Python module for decorators, wrappers and monkey patching.
library/python/wrapt-39	A Python module for decorators, wrappers and monkey patching.
library/python/zippp	Backport of pathlib-compatible object wrapper for zip files.
library/python/zippp-37	Backport of pathlib-compatible object wrapper for zip files.
library/python/zippp-39	Backport of pathlib-compatible object wrapper for zip files.
library/sdl	libsdl - Simple DirectMedia Layer
library/security/nss	Network Security Services libraries and header files
library/security/openssl	OpenSSL - a Toolkit for Secure Sockets Layer (SSL v2/v3) and Transport Layer (TLS v1) protocols and general purpose cryptographic library
library/security/openssl-11	OpenSSL - a Toolkit for Transport Layer (TLS v1+) protocols and general purpose cryptographic library
library/security/openssl-3	OpenSSL - a Toolkit for Transport Layer (TLS v1+) protocols and general purpose cryptographic library
library/security/openssl-3/fips-140-provider	FIPS-140 provider for OpenSSL 3 library
library/security/openssl-3/legacy-provider	legacy provider for OpenSSL 3 library
library/security/openssl/openssl-fips-140	FIPS 140-2 Capable OpenSSL libraries
mail/fetchmail	fetch mail from a POP, IMAP, ETRN, or ODMR-capable server
mail/mailman	GNU Mailing List Manager
mail/mutt	The Mutt E-Mail Client
mail/thunderbird	Mozilla Thunderbird Email/Newsgroup Client
network/chat/irssi	irssi - a terminal based IRC client
network/dns/bind	BIND DNS tools
network/firewall/firewall-pflog	pflog - PF packet log daemon
network/open-fabrics	Oracle Solaris OpenFabrics userland libraries and applications
network/ssh	OpenSSH client and associated utilities
package/pkg	Image Packaging System
package/pkg-37	Python 3.7 support modules for the Image Packaging System
package/pkg-39	Python 3.9 support modules for the Image Packaging System
package/pkg/depot	IPS Depot
package/pkg/system-repository	IPS System Repository
package/pkg/zones-proxy	System Repository Zone support
print/cups	Common Unix Print System (CUPS)

print/filter/hplip	hplip - HP Linux Printing
print/filter/poppler	Poppler PDF rendering tool
print/paps	paps text to PostScript converter
runtime/java/jre	Java Platform Standard Edition Runtime Environment (VERSION) java - version will display 1.7.0_331-b06
runtime/java/jre-7	Java Platform Standard Edition Runtime Environment (1.7.0_331-b06)
runtime/java/jre-8	Java Platform Standard Edition Runtime Environment (1.8.0_321-b07)
runtime/nodejs	Node.js
runtime/nodejs/nodejs-14	Node.js
runtime/nodejs/nodejs-16	Node.js
runtime/python-39	The Python interpreter, libraries and utilities
security/compliance/openscap	Open implementation of SCAP; a line of standards managed by NIST
service/network/dns/bind	BIND DNS name server and configuration tools.
service/network/ftp	FTP Server and Utilities
service/network/ptp	Precision Time Protocol (PTP) IEEE 1588-2008 (Version 2)
service/network/samba	samba - A Windows SMB/CIFS fileserver for UNIX
service/network/ssh	OpenSSH servers and SSH (Secure Shell) services
shell/bash	GNU Bourne-Again shell (bash)
shell/tcsh	Tenex C-shell (tcsh)
source/locale/localedef	localedef source data
support/critical-patch-update/solaris-11-cpu	Oracle Solaris 11.4.42.113.1 Critical Patch Update 2022.2-1
system/data/timezone	Timezone Definition
system/display-manager/desktop-startup	Desktop startup scripts in xinitrc.d
system/display-manager/gdm	GNOME Display Manager (GDM)
system/font/daewoo-misc	Korean bitmap fonts from Daewoo Electronics
system/font/isas-misc	Institute of Software, Academia Sinica GB2312-80 bitmap fonts
system/font/jis-misc	Japanese Industrial Standard 9051-1984 bitmap fonts
system/font/misc-meltho	Meltho Syriac fonts
system/font/sun-ja-bitmap	Sun Japanese Bitmap fonts
system/font/sun-ja-bitmap-unicode	Sun Japanese Bitmap fonts - Unicode
system/font/truetype/anonymous-pro	Anonymous Pro Fonts
system/font/truetype/arabeyes	Arabeyes Arabic TrueType fonts
system/font/truetype/arphic-ukai	Chinese TrueType font
system/font/truetype/arphic-uming	Chinese TrueType font
system/font/truetype/baekmuk	Baekmuk Korean fonts
system/font/truetype/bh-luxi	Luxi font family from Bigelow & Holmes
system/font/truetype/bitstream-vera	Bitstream Vera fonts
system/font/truetype/bpg-georgian	BPG Georgian fonts

system/font/truetype/croscorefonts	Google Croscore Fonts
system/font/truetype/freefont	GNU FreeFont fonts
system/font/truetype/gentium	Gentium font
system/font/truetype/google-droid	Droid font family from Google's Android project
system/font/truetype/hanyang-ko	HanYang Korean TrueType fonts
system/font/truetype/hanyang-ko-core	HanYang Korean TrueType core fonts
system/font/truetype/indic-fonts-core	Indic TrueType fonts
system/font/truetype/ipafont	IPA Font Mincho and Gothic
system/font/truetype/kacst	Kacst Fonts
system/font/truetype/liberation	Liberation fonts
system/font/truetype/thai-scalable	Thai TrueType fonts
system/font/truetype/unfonts-ko-core	Un-Fonts Korean TrueType fonts
system/font/truetype/unfonts-ko-extra	Un-Fonts Korean TrueType fonts
system/font/truetype/unifont	Unifont
system/font/truetype/wqy-zenhei	WenQuanYi Zen Hei Chinese TrueType font
system/font/xorg/cyrillic	Cyrillic bitmap fonts from X.Org Foundation
system/font/xorg/iso8859-1	X.Org Foundation X11 iso8859-1 bitmap fonts
system/font/xorg/iso8859-10	X.Org Foundation X11 iso8859-10 bitmap fonts
system/font/xorg/iso8859-11	X.Org Foundation X11 iso8859-11 bitmap fonts
system/font/xorg/iso8859-13	X.Org Foundation X11 iso8859-13 bitmap fonts
system/font/xorg/iso8859-14	X.Org Foundation X11 iso8859-14 bitmap fonts
system/font/xorg/iso8859-15	X.Org Foundation X11 iso8859-15 bitmap fonts
system/font/xorg/iso8859-16	X.Org Foundation X11 iso8859-16 bitmap fonts
system/font/xorg/iso8859-2	X.Org Foundation X11 iso8859-2 bitmap fonts
system/font/xorg/iso8859-3	X.Org Foundation X11 iso8859-3 bitmap fonts
system/font/xorg/iso8859-4	X.Org Foundation X11 iso8859-4 bitmap fonts
system/font/xorg/iso8859-5	X.Org Foundation X11 iso8859-5 bitmap fonts
system/font/xorg/iso8859-7	X.Org Foundation X11 iso8859-7 bitmap fonts
system/font/xorg/iso8859-8	X.Org Foundation X11 iso8859-8 bitmap fonts
system/font/xorg/iso8859-9	X.Org Foundation X11 iso8859-9 bitmap fonts
system/font/xorg/xorg-core	X.Org Foundation X11 core fonts
system/input-method/ibus	IBus - Intelligent Input Bus
system/library/accountsservice	AccountsService
system/library/polkit	polkit authorization toolkit
system/locale	language support components
system/management/ansible	IT automation platform
system/management/cloudbase-init	Portable OpenStack Cloud Initialization Service
system/management/puppet	Puppet agent - The Puppet daemon that runs on the target system (node).
system/management/puppet-master	Puppet master - configuration management toolkit

system/management/puppet/puppetlabs-apache	Apache Puppet Module
system/management/puppet/puppetlabs-concat	Concat Puppet Module
system/management/puppet/puppetlabs-inifile	Inifile Puppet Module
system/management/puppet/puppetlabs-mysql	Mysql Puppet Module
system/management/puppet/puppetlabs-ntp	NTP Puppet Module
system/management/puppet/puppetlabs-stdlib	Stdlib Puppet Module
system/management/snmp/net-snmp	Net-SNMP Agent files and libraries
system/management/snmp/net-snmp/addons	Net-SNMP addon libraries
system/management/snmp/net-snmp/demo	Net-SNMP demo modules
system/storage/sg3_utils	Utilities for devices that use SCSI command sets
terminal/luit	luit - Locale and ISO 2022 support for Unicode terminals
terminal/pconsole	Parallel console
text/convmv	Filename Encoding Conversion Tool
text/diffstat	A utility which provides statistics based on the output of diff
text/gnu-gettext	GNU gettext
text/texinfo	Documentation system for on-line information and printed output
web/browser/firefox	Mozilla Firefox Web browser
web/curl	The CURL Network Utility and Library
web/data/firefox-bookmarks	Firefox's default bookmark
web/java-servlet/tomcat-8	Tomcat Servlet/JSP Container
web/java-servlet/tomcat-8/tomcat-admin	Tomcat Servlet/JSP Container - admin applications
web/java-servlet/tomcat-8/tomcat-examples	Tomcat Servlet/JSP Container - example applications
web/php-73	PHP scripting language
web/php-74	PHP scripting language
web/php-80	PHP scripting language
web/php-common	common components for PHP
web/server/apache-24	Apache Web Server V2.4
web/server/apache-24/module/apache-dbd	SQL database connections plugin for Apache Web Server V2.4
web/server/apache-24/module/apache-gss	Kerberos authenticating plugin for Apache Web Server V2.4
web/server/apache-24/module/apache-ldap	LDAP support plugins for Apache Web Server V2.4
web/server/apache-24/module/apache-lua	Lua support plugin for Apache Web Server V2.4

web/server/apache-24/module/apache-mellon	SAML2.0 authentication module for Apache
web/server/apache-24/module/apache-security	Mod Security plugin for Apache Web Server V2.4
web/server/apache-24/module/apache-ssl	SSL (default) support plugin for Apache Web Server V2.4
web/server/apache-24/module/apache-ssl-fips-140	SSL FIPS 140-2 support plugin for Apache Web Server V2.4
x11/colormap-utilities	X Colormap utilities
x11/demo	X Window System demo programs
x11/diagnostic/x11-info-clients	X Window System diagnostic and information display clients
x11/diagnostic/xscope	xscope - X Window Protocol Viewer
x11/documentation/xorg-docs	X Window System common documentation
x11/header/x11-protocols	X Window System protocol definitions
x11/keyboard/accessx	AccessX keyboard accessibility configuration program.
x11/keyboard/xkb-utilities	X Window System X Keyboard Extension (XKB) Utilities
x11/library/libdmx	libdmx - X Window System DMX (Distributed Multihead X) extension library
x11/library/libxevie	libXevie - X Event Interception Extension (XEvIE) client library
x11/library/libxfixes	libXfixes - XFIXES extension client library
x11/library/libxfont	libXfont - library for X servers and utilities to access font files
x11/library/libxfont2	libXfont2 - version 2 of the library for X servers and utilities to access font files
x11/library/libxft	libXft - X FreeType library
x11/library/libxp	libXp - X Print Client Library
x11/library/libxpresent	Xlib compatible API for the Present extension
x11/library/libxrender	libXrender - library for the Render Extension to the X11 protocol
x11/library/libxtst	libXtst - X Test and Record extensions client library
x11/library/libxv	libXv - X Video (Xv) extension client library
x11/library/libxxf86vm	libXxf86vm - XFree86-VidMode X extension client library
x11/library/toolkit/libxt	libXt - X Toolkit Intrinsics library
x11/modeline-utilities	Utilities for generating modelines
x11/server/xdmx	Xdmx - Distributed Multihead X
x11/server/xephyr	Xephyr - X server displaying to a window on a pre-existing X display
x11/server/xorg	Xorg - X11R7 X server
x11/server/xorg/driver/xorg-input-keyboard	xf86-input-kbd - Keyboard input driver for the Xorg X server
x11/server/xorg/driver/xorg-input-vmouse	xf86-input-vmouse - VMWare guest mouse input driver for the Xorg X server
x11/server/xorg/driver/xorg-input-void	xf86-input-void - null input driver for Xorg server
x11/server/xorg/driver/xorg-video	Xorg server video drivers group
x11/server/xorg/driver/xorg-video-ast	xf86-video-ast - ASpeed Technologies graphics driver for Xorg X server

x11/server/xorg/driver/xorg-video-cirrus	xf86-video-cirrus - Cirrus Logic video driver for the Xorg X server
x11/server/xorg/driver/xorg-video-dummy	xf86-video-dummy - virtual/offscreen frame buffer driver for the Xorg X server
x11/server/xorg/driver/xorg-video-openchrome	xf86-video-openchrome - VIA Unichrome video driver for the Xorg X server
x11/server/xserver-common	X server common files
x11/server/xvfb	Xvfb - virtual framebuffer X server
x11/server/xvnc	TigerVNC X11/VNC server
x11/session/smproxy	smproxy - X Session Manager Proxy
x11/session/xinit	xinit & startx - X Window System manual session startup
x11/x11-server-utils	X11 server state utilities
x11/x11-window-dump	X11 Window Dump (screenshot) utilities
x11/xclipboard	xclipboard & xcutsel tools for clipboard management
x11/xconsole	xconsole - monitor system console messages with X
x11/xmag	xmag - magnify parts of the screen

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Superseded IDRs

When a bug fix that is included in an Interim Diagnostic Relief (IDR) is addressed in a SRU, the IDR is superseded. Prior to updating this SRU, you do not necessarily need to remove the IDR that has been superseded. Running the pkg update command updates the system to the latest SRU and removes the relevant IDR from the system. However, the update fails if an IDR exists in the system and the IDR has not been superseded.

The following IDRs are superseded in this SRU:

- 4400.1
- 4530.1
- 4652.2
- 4720.2
- 4730.2
- 4732.2
- 4763.3
- 4785.2
- 4830.2
- 4840.1
- 4851.5
- 4873.1
- 4875.1
- 4876.1
- 4885.2
- 4895.3
- 4896.1
- 4898.1
- 4900.1
- 4907.1
- 4939.1
- 4941.1
- 4944.2
- 4945.1
- 4947.1
- 4949.1
- 4951.1

- 4953.1
- 4956.1
- 4960.1
- 4961.1
- 4963.1
- 4964.1
- 4968.1
- 4969.1
- 4973.2
- 4979.1
- 4985.1
- 4986.1
- 4987.1
- 4991.1
- 4996.1

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About Oracle Solaris 11 Support Repository Updates

Oracle Solaris 11 uses the Image Packaging System (IPS) repository to update all packages that are available in your system. Customers with a support contract have access to the support repository to periodically update their Oracle Solaris 11 systems. Updates from the Oracle Solaris 11 support repository are available as support repository updates (SRUs) and each SRU provides a comprehensive set of important bug fixes and enhancements. Oracle Solaris updates and SRUs together provide a high quality, long-term support train for all Oracle Solaris 11 customers.

The update path for Oracle Solaris 11 11/11 users is to update to Oracle Solaris 11.4 and apply subsequent SRUs. For the complete list of Oracle Solaris 11.4 SRUs and downloads, see [Oracle Solaris 11.4 SRU Index](#).

Some important points to consider before applying or installing SRUs:

- SRUs can be installed on systems covered by an appropriate Oracle support contract.
- SRUs are updates to Oracle Solaris, but are not complete images. They provide bug fixes and incremental changes that are relative to the preceding release, for example Oracle Solaris 11.4.
- The SRU repository must include the base packages for the Oracle Solaris 11 Update that they apply to.
- If a subset of the SRUs are added to a repository, only those SRUs can be installed provided that the corresponding Oracle Solaris 11 Update base packages are included in the repository.
- If the base packages for the relevant Oracle Solaris 11 Update are not included in the repository containing the SRUs, failures will occur during various packaging operations.
- SRUs are released and available for download on a monthly basis.
- The release date of every third SRU coincides with Oracle's quarterly Critical Patch Update (CPU). The [CPU Documentation](#) references security vulnerabilities fixed in each SRU. This Critical Patch Update Advisory lists all relevant Oracle products.

To see the latest CPU, click the Critical Patch Update listed in the table. To see the security vulnerabilities that are fixed in recent Oracle Solaris SRUs, scroll down in the CPU document and click the "Oracle and Sun Systems Products Suite" link. This document also has a reference section to historical information for older Oracle Solaris SRUs.

- SRUs must be applied during proactive maintenance to prevent issues, or when asked by Oracle Support for reactive break/fix maintenance situations. Customers should schedule such maintenance windows at least in line with the Oracle Critical Patch Update cycle, or more frequently as required by the industry and/or company compliance requirements. Note also that at times Oracle may release security vulnerability fixes outside of the normal Critical Patch Update cycle.
- If a system has an Interim Diagnostic Relief (IDR) installed, check if the issues addressed by the IDR are fixed in the SRU that you plan to install. If the issues are not fixed, you need to request a new IDR for that SRU several weeks in advance of the planned maintenance window.
- The SRU zip files on MOS provide an alternative download option to synchronize network based repository.

For latest support products news, and SRU availability email notifications, use the [My Oracle Support Hot Topics E-Mail](#) feature.

For a complete list of Oracle Solaris 11.4 SRUs and downloads, see [Oracle Solaris 11.4 SRU Index](#).

For instructions about applying SRUs to a system and managing a package repository, see [Managing The Repository](#).

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Determining the Oracle Solaris Version Installed on Your System

To check the Oracle Solaris version installed on your system, use the `pkg list entire` command.

```
# pkg list entire
NAME (PUBLISHER)  VERSION
entire            11.4-11.4.1.0.1.3.0
```

Oracle Solaris 11.4 SRU versions use a different naming convention than Oracle Solaris 11.3 SRU. It follows the 7-digit Release.Update.SRU.reserved.reserved.Build.Respin format. In the example, 11.4-11.4.1.0.1.3.0 indicates Oracle Solaris 11.4, SRU version 1, reserved 0, reserved 1, build 3, and no respin.

For more information, see the [Oracle Solaris 11 package branch version scheme](#).

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Managing the Repository

Some important points to consider before applying or installing the repository zip file:

- The minimum OS level required for the system to run this repository is Oracle Solaris 11.1.
- The repository is provided as zip files. They contain only the latest revision of IPS packages that have been added or changed since the initial release of Oracle Solaris 11.4. The destination repository for the SRU must, at a minimum, contain the 11.4 GA packages; otherwise the verification of the repository will report missing dependency errors.
- This SRU is provided in two parts: Oracle Solaris IPS Repository Installation Guide and Oracle Solaris IPS Repository. The Oracle Solaris IPS Repository Installation Guide contains the install script and readme files. The Oracle Solaris IPS Repository contains the zip files of the repository. You must download both parts from [MOS](#) to add the packages to an existing repository.
- The zip file associated with this README must be used in conjunction with an existing local copy of the Oracle Solaris support repository.
- It is necessary to have a valid `solaris` publisher set before performing an update. For instructions to create an Oracle Solaris 11.4 package repository, see [Copying and Creating Oracle Solaris 11.4 Package Repositories](#).

The example commands listed in this section should be executed with root privileges or by using `sudo(1M)` or `pfexec(1)` commands.

How to Update Your Local Repository

Download the SRU's IPS Repository Installation Guide and IPS Repository patches from MOS.

Perform the following steps to update your local system with the contents of the SRU zip file:

1. Become an administrator.

For more information, see [How to Use Your Assigned Administrative Rights in Securing Users and Processes in Oracle Solaris 11.4](#).

2. Verify `locale` setting.

Verify that the `locale` setting is set to either `C` or `en_US.UTF-8`.

```
$ locale
```

If it isn't one of the two recommended settings, update it now:

```
$ export LANG=C
```

3. Run the `install-repo.ksh` script that is included in the IPS Repository Installation Guide patch to update your existing repository.

```
$ install-repo.ksh [-c] [-v] -d full_path_to_existing_s11_4_repo
```

For example:

```
$ install-repo.ksh -c -v -d /export/support-repo
```

4. If the repository is managed by pkgserve, restart the appropriate service.

```
$ svcadm restart svc:/application/pkg/server:your_repo_instance
```

5. If an existing repository is not set, add the repository to the system.

```
$ pkg set-publisher -g file:///full_path_to_existing_s11_4_repo solaris
```

6. Update the packages.

```
$ pkg update
```

For more information about using the install-repo.ksh script, see the README-zipped-repo.txt file.

For more information about managing your repository, see the following resources:

- [Updating and Maintaining Oracle Solaris 11](#)
- [Oracle Solaris 11 Image Packaging System \(IPS\) Frequently Asked Questions \(FAQ\)](#)

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Oracle Solaris Repository Reorganization

Over the past few years the release and particularly the support repositories for Oracle Solaris have grown considerably as new releases and SRUs have been added. Users who copy our entire repositories via pkgrecv may be downloading many packages that they will not need and this leads to increased download times. Packages for Oracle Solaris 11.2 and older releases are no longer available from the support and release repositories.

However, we realize that some folks might still need access to this (rather old) software and so that can be accessed via two new repositories:

```
http://pkg.oracle.com/solaris/legacy/release  
https://pkg.oracle.com/solaris/legacy/support
```

Note: You can configure these repositories as before, just specifying the new URI/Origins. For the legacy/support repository, use your existing certificate/key pair.

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Further Assistance

The documentation for Oracle Solaris 11.4 can be found at: [Oracle Solaris 11.4 Information Library](#).

If you have a support plan with Oracle, please contact your service representative for further assistance. Community discussion of this product can be found at:

[Oracle Solaris Installation, Booting, and Patching \(MOSC\)](#).

Source code for open source software components in Oracle Solaris 11.4 SRUs can be found on the [Oracle Solaris 11.4 SRU Index](#) page.

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Didn't find what you are looking for?