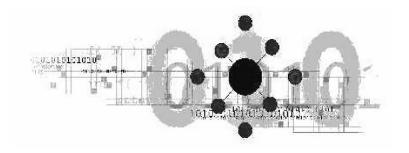
sgi

IRIX® 6.5.29 Update Guide



sgi

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Dear Valued Customer,

SGI[®] is pleased to present the new IRIX[®] 6.5.29 release. Each release is available to customers with a service contract that includes an IRIX support component. This upgrade is part of a family of releases that periodically enhances IRIX 6.5.

There are several benefits to this release strategy: it provides periodic fixes to IRIX, it assists in managing upgrades, and it supports all platforms. Additional information on this strategy and how it affects you is included in the *Installation Instructions* manual contained in this package. If you need assistance, please visit the SupportfolioTM online website at http://support.sgi.com/ or contact your local support provider.

We offer eight modes of service for software supported by SGI: Active, Maintenance, Limited, Legacy, Courtesy, Divested, Retired, and Expired.

Active Mode is our highest level of service. It applies to products that are being actively developed and maintained and are orderable through

general distribution. Software fixes for all levels of problems can be expected.

Maintenance Mode software is maintained and is still an important part of our product mix. No new functionality is added to products in this support mode. Functional fixes for severe problems are generally available. Products in this support mode category are still orderable through general distribution. Software usually stays in this category for approximately 18 months before being moved to a mode of lesser support.

Limited Mode is a restricted level of service developed mainly for products developed and maintained by open source organizations and distributed by SGI.

Legacy Mode software generally runs on out-of-production operating system versions or system platforms that are no longer in active development or maintained. These products are usually distributed with limited availability. New support contracts may be offered and renewed. Services provided with Legacy Mode are limited to providing existing fixes and "workarounds" for reported problems. IRIX[®] 6.2 is an example of a major operating system release that was supported in this category until January 2000. IRIX[®] 6.3 and IRIX[®] 6.4 operating system revisions are examples of major operating system releases that were supported in this category until January 2001.

Courtesy Mode software is not officially part of the software support offerings. Courtesy mode software is not covered by software support contracts, and call center support is not available. An e-mail alias may be provided to facilitate customer communications and to address any technical questions. Response times will vary according to availability of resources. The e-mail alias may be terminated at any time without advance notice. IRIS ShowcaseTM and Cosmo WorldsTM are examples of products with Courtesy Mode support.

Divested Mode software has been turned over to a third party who assumes all responsibility for support. SGI no longer distributes these products. Calls received at the SGI Call Center for support on divested products will be redirected to the applicable third party. CA Unicenter[®] TNG and Syntax TASTM are examples of divested products.

Retired Mode provides restricted support for older software products which are no longer generally distributed by SGI. This level of support has severe limitations on portability to new platforms. Availability of support at this level is limited to existing customers with whom we have existing contractual obligations. This is the final stage before a product is completely removed from the SGI product set. IRIX 6.2, IRIX 6.3, and IRIX 6.4 operating system versions are examples of major operating system releases that are supported in this category beginning January 2003. Software stays in this category for a minimum of 18 months before being moved to Expired Mode. **Expired Mode** software products have reached the end of their useful life. These products are not supported or distributed in any form by SGI. Examples are: IRIX[®] 5.3, IRIXProTM, and Proconf.

Supportfolio Online (http://support.sgi.com/) contains a Power Search capability to locate further information regarding the eight software support modes. Using the Power Search section can also help locate links to the latest customer letters and lists of the various software products that have changed support modes. We thank you for your continued commitment to SGI.

Terry Oberdank

Vice President, Global Services SGI Welcome to your SGI IRIX 6.5.29 update. This booklet contains:

- A list of key features in IRIX 6.5.29
- A list of CDs contained in the IRIX 6.5.29 update kit
- A guide to SGI websites

IRIX 6.5.29 Key New Features

The following changes have been incorporated into the core IRIX 6.5.29 overlay CDs and the Applications CDs.

Packaging and Support Changes for IRIX 6.5.29

• CXFS Support

CXFS will be supported with IRIX 6.5.29 as an asynchronous product. The CXFS release for IRIX 6.5.29 must be ordered separately. For more information, consult your SGI service representative.

• Changes to Fonts, PostScriptTM Viewing, and PDF Viewing Tools Several of the fonts were updated for the IRIX 6.5.23 release, and as a result, customers may notice a change in some of the filenames used in the font directories. You may also see some minor changes to the fonts' appearance on the display. Applications that use fonts through the standard mechanisms in X11 should continue to operate correctly. Applications that directly access those font files in the DPS directory, however, may find that the file has been superseded and no longer exists in that location. Developers are encouraged to use the standard X11 mechanisms for accessing fonts to avoid this problem.

The tools acroread (Adobe Acrobat[®] Reader), xpsview, and showps have been replaced with the more recent open source tools gsview and xpdf, which are built on top of the Ghostscript[®] package. These tools can be found on the Applications CD in this release. Customers who made use of the old tools should ensure that they install the new ones by selecting the images for gsview, xpdf, and ghostscript from the Applications CD. The old tools will no longer be available, and will be replaced with wrapper scripts.

The wrappers for acroread and xpsview/showps will invoke the new xpdf or gsview commands respectively, but the wrapper scripts will pass all parameters verbatim, and will not attempt any translation. Thus, if an option changes or is not available for the new tool, customers may encounter an error if they use that option with the old command name from inside a script, for instance.

Ghostscript is a registered trademark of Artifex Software, Inc. PostScript is a trademark and Acrobat is a registered trademark of Adobe Systems Incorporated.

New Software Enhancements

New xfs_quota command

IRIX 6.5.29 includes a new xfs_quota command that allows you to manage the use of quotas on an XFS filesystem. For information on this command, see the xfs_quota(1M) man page, which also provides general information on setting quotas for XFS filesystems.

• New extsize option for xfs_io command

In IRIX 6.5.29, the xfs_io command includes an extsize option that allows you to display and/or modify the preferred extent size used when allocating space for the currently open file. For information, see the xfs_io(1M) man page.

rpc.mount no longer reports nohide entries

In the IRIX 6.5.29 release, rpc.mount does not report exported entries marked as nohide if they correspond to the root of the mounted filesystem. To return to the behavior of earlier releases, use the -C option to rpc.mountd. The exportfs command will check whether the nohide option is used to export a directory that is not a root of a filesystem and issue a warning; the option will be ignored.

For information, see the mount(1M) and exportfs(4) man pages.

• Ability to store inode's parents in xfs filesystem added

In the IRIX 6.5.29 release, the mkfs_xfs command includes a parent= option that allows you to specify that links to the inode's parents and associated directory entry names are stored. This feature is off by default. This option can be used to map inodes to paths without requiring the search of directories to find the inode. For information, see the mkfs_xfs(1M) man page.

In IRIX 6.5.29, the xfs_io command includes the parent option that prints out the parent inode numbers, inode generation numbers and basenames of all the hardlinks which point to the inode of the current file. For information, see the xfs_io(1M) man page.

• New extended inline allocation policy version on XFS filesystems

In IRIX 6.5.29, a new version of extended attribute inline allocation policy is available that uses a more efficient algorithm for managing the available inline inode space. For information, see the description of the attr option on the mkfs_xfs(1M) man page and the attr2/noattr2 mount options on the mount(1M) man page.

• filestreams mount option

IRIX 6.5.29 includes the new filestreams mount option, which changes the behavior of the XFS allocator in order to optimize disk layout for workloads that issue a stream of file creations into a directory.

SGI Software Product Life Cycle Management

• IRIX Support Policy

In accordance with the SGI software product life cycle management strategy announced in December 2002, SGI will announce support mode changes for various software products on a semi-annual basis. To view customer letters containing support mode changes announced since December 2002, as well as the latest IRIX Support Policy documents, visit the IRIX Support Policy Web page on Supportfolio Online (http://support.sgi.com/).

Applications CD

The following Application and Library packages have been revised or rebuilt on the IRIX 6.5.29 Overlay CDs:

- MIT Kerberos, 1.3.1c
- NTP, 4.1.1-sgi-rev-1
- OpenGL Performer 3.2.1 Run-Time Environment
- OpenGL Performer 3.2.1 Demos and Demo Data
- OpenLDAP LDAP server and client tools, 2.2.23
- OpenSSL libraries for 6.5.28 and later, 0.9.7e
- Impressario Printing & Scanning Tools 1.18.5

Due to the limitations of available space on the 3rd Overlay CD, the Performer Database samples package is located on the Complementary Apps CD and the Performer Developer package is located on the Applications CD in the /dev directory.

The following full images have been revised or added on the IRIX 6.5 Applications CD, February 2006:

- Ghostscript, 8.50
- XPDF viewer, 3.00pl3
- MozillaSuite, 1.7.12

- SGI Web Server based on Apache, 1.3.33, including mod_ssl
- OpenGL Performer 3.2.1 Development Environment

The following images have been revised for the IRIX 6.5 Complementary Applications CD, February 2006:

- ESP Print Pro, 4.5.5
- Printing Tools, Release 1.18.5 printpro_desktop Companion
- MozillaSuite Developer, 1.7.12
- OpenGL Performer 3.2.1 Database Samples

The following images have transitioned to Expired support mode and have been removed from the IRIX 6.5 Applications CD:

• Netscape Communicator Client 4.8.a

The following images have transitioned to Expired support mode and have been removed from the IRIX 6.5 Complementary Applications CD:

- Mozilla for IRIX 1.7.12 (MIPS3 only). This can only be obtained from the SupportFolio Web Site.
- Netscape Communicator Developer's Environment, 4.8a
- Netscape Navigator Client, 4.8a

Starting with IRIX 6.5.24, the Impressario PostScript render engine and Host RIP printers have been removed. If you require non-PostScript printer support look on the Complementary Applications CD for the Easy

Software ESP PrintPro package and the 33 printer driver packages. You can obtain a 21-day demo license for this software by going to the ESP web site at http://www.easysw.com/license-demo.php.

IRIX OS Bundled Software

For information about the bundled software that is included with this release, see the Bundled software and licenses webpage that you can access from the Welcome webpage.

Freeware CDs

For information about the freeware that is supported for this release, including a complete list of the freeware packages, see http://freeware.sgi.com/. As of the IRIX 6.5.22 release, IRIX Freeware CDs are no longer included with the IRIX Update kit.

Documentation

The following manuals have been revised for this release.

- *IRIX Admin: Backup, Security and Accounting* (007-2862-008) has been updated to correct small errors in the procedure for setting up an anonymous FTP account.
- *IRIX Admin: Networking and Mail* (007-2860-012) has been updated to correct the ipforwarding file reference.
- *Network Load Balancing Software User's Guide* (007-3895-004) has been updated to support the NLBS 2.2 release.

Key New Features from Previous IRIX Releases

Descriptions of key new features and changes for the IRIX releases from 6.5.1 through 6.5.28 are provided in the Customer Welcome document. This document is available on the IRIX 6.5.29 Overlay CDs and can be accessed in any of the following ways:

- Insert Installation Tools and Overlays into the CD-ROM drive and point a web browser at file:///CDROM/WhatsNew/yoursystem.html. Note that you enter the literal yourSystem.html; do not type your actual system name.
- After completing an install, click on the Guide button of the web browser. Holding the button down yields a menu with Welcome as the first item.
- After completing an install, double click the "Welcome to SGI" icon on the desktop.

Descriptions of new features for IRIX 6.5.24 and later are available on Supportfolio Online from the following webpage:

http://support.sgi.com/search_request/publications. After logging in to Supportfolio, enter "Start Here" as the keyword and select "IRIX OS Docs " as the Publication type. Select a Start Here document and follow the "Key New Features and Changes" link for information on the new features for the release selected.

IRIX 6.5.29 Update Kit Contents

The IRIX 6.5.29 Update Kit contains the following items for both server and workstation system configurations:

- CD Name:
 - 1. IRIX 6.5.29 Installation Tools & Overlays CD (1 of 3), February 2006
 - 2. IRIX 6.5.29 Overlays CD (2 of 3), February 2006
 - 3. IRIX 6.5.29 Overlays CD (3 of 3), February 2006
 - 4. IRIX 6.5 Applications CD, February 2006
 - 5. IRIX 6.5 Complementary Applications CD, February 2006
- The IRIX CD booklet Installation Instructions: Installing an Intermediate (Overlay) Release, Installing Applications, Installing Software Licenses

SGI Websites

IRIX 6.5-Related Websites

- SGI product information http://www.sgi.com/products/
- IRIX 6.5 datasheet http://www.sgi.com/software/irix6.5/datasheet.pdf
- Supportfolio Online, IRIX 6.5 content http://support.sgi.com/irix/6.5

Services

- Customer Education Services http://www.sgi.com/support/custeducation/
- Professional Services

http://www.sgi.com/services/

Online Tools

- Customer Registration http://www.sgi.com/support/custreg.html
- Software Licensing/Key-O-Matic http://www.sgi.com/support/licensing/
- Online documentation Technical Publications Library http://docs.sgi.com/
- Supportfolio Online http://support.sgi.com/

Other Sites

- Download Cool Software http://www.sgi.com/products/evaluation/
- Free Software

http://freeware.sgi.com/

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