SCO OpenServer™ RELEASE 6

RELEASE 6

THE MOST RELIABLE OPERATING SYSTEM JUST GOT MORE POWERFUL

quick start guide

SCO GROWS YOUR BUSINESS

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SCO OPENSERVER RELEASE 6 QUICK START GUIDE

SCO® OpenServer™ Release 6.0 is an impressive new operating system for low-cost, commodity hardware that features large file support and support for a broad array of modern applications. With a decade of rock-solid stability and dependability, SCO OpenServer has stood the test of time for small and large businesses needing an affordable all-in-one server.

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OVERVIEW

SCO OpenServer 6 brings to users a powerful, new, and modern operating system with large file support and kernel-level threading for greater application support. With speed and performance improvements due to the integration of the SVR5 kernel, SCO OpenServer 6 establishes a new standard for rock-solid stability and dependability. With increased memory and file size support, security enhancements, full backwards compatibility, support for Apache, Java® and Mozilla, SCO OpenServer 6 is pure power and reliability.

SCO OpenServer 6 includes application support for powerful SCO UnixWare® applications, and provides the easy-to-use KDE® graphical interface.

SCO OpenServer has stood the test of time for small to large businesses needing an affordable all-in-one server. It's the kind of advantage you expect from SCO, the supplier of the world's most popular UNIX® operating system for low-cost hardware.

OPENSERVER 6 NEW AND IMPROVED

With the release of SCO OpenServer 6, product reliability and stability continue. The greatest improvements include multi-threaded application support, large file support (up to 1 terabyte), and a modern look and feel. With the inclusion of the SVR5 technology, the new version has significant speed improvements.

Key improvements include:

- Larger file support-up to 1 TB
- Multiprocessor support increased from 4 to 32 processors
- Increased memory support — up to 64 GB
- Extending the power of UnixWare into OpenServer 6
- Single certification for OpenServer and UnixWare
- Dramatic performance improvement

WHY UPGRADE TO OPENSERVER 6

OpenServer 6 is specifically targeted at SCO's existing OpenServer channel and customer base. Key to this focus is the upgradeability to this new release. Key reasons for existing OpenServer or UnixWare customers to upgrade include:

- ***Large file support*** (up to 1 terabyte) and kernel-level threading via a new SVR5 kernel enables OpenServer customers to take advantage of more modern and a wider variety of applications including thousands of applications written for UNIX, Java, PostgreSQL, mySQL, KDE, and Web Services as well as UnixWare 7.1.4 applications.
- ***Multi-processor support*** increases from 4 to 32 processors and increased memory support increases to 64GB thus enabling customers to take advantage of cutting edge hardware.
- ***OpenServer pricing and licensing*** changes provide customers twice the number of users, four times the number of CPU's and 4GB memory support for the same price as OpenServer 5.0.7.
- ***Single certification*** for both OpenServer 6.x and UnixWare 7.1.x applications gives ISVs/IHVs and VSPs exposure to a broader SCO UNIX customer base.
- ***Integrates new applications*** including Apache 1.3, MySQL, and Samba
- ***Good product margin*** for partners with excellent upgrade opportunities with established customer base
- ***Optional support*** and product bundles offer greater margins for channel. Support delivered to partners and/or end users as dictated by the partners.

COMPETITIVE ADVANTAGES

Reliability continues to be the most important SCO OpenServer 6 differentiator. OpenServer is known for its phenomenal stability and quality. IDC survey of 1000 IT professionals found UNIX to be superior to Linux in multiprocessing, integration, security, and skills availability. Overall UNIX was more likely to meet expectations for features, overall performance and manageability. Additional competitive advantages include low TCO, established reseller relationships, and a profitable reseller business model.

SCO offers a wide range of global services to meet partners' and end-users' business requirements. Customized and a-la-carte options are available for SCO customers, allowing optimal returns on their investment

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OPENSERVER CUSTOMERS

SCO OpenServer 6 has been designed to meet many customer demands.

Specific Problems

- Need larger file size support for modern applications
- Need higher multi-processor support
- Need compatibility between OpenServer and UnixWare applications
  - Both for ISV certification and end-user customer who wants to use UW apps on OpenServer
- Need improved performance for increasingly complex business needs
- Need legacy support for older application versions
- Need larger memory support
- Need support for Java
- Increased security enhancements
- Support for Mozilla
- Need KDE graphical desktop for updated look and feel
- Support for Samba and Apache
- Cannot share printers, faxes, and data for internal collaboration
- Have lost data stored on a computer; wasting or losing time running on slow, legacy hardware

General Problems

- Need a reliable, low cost, multi-function infrastructure server (for example: file/print sharing, routing, firewall, Web, intranet, Internet access)
- Need for application serving (for example: accounting, data backup, database)
- Limited office space (for example, a local McDonald's franchise doesn't have much space under a counter)

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SCO OPENSERVER 6 — BUILT ON FOUR KEY CORNERSTONES

- BUILT FOR PRODUCTIVITY
- BUILT FOR AGILITY
- BUILT FOR SECURITY
- BUILT TO PROTECT YOUR INVESTMENT

OPENSERVER 6 KEY FEATURES

- Multi-threaded, pre-emptive kernel for modern application support
- Modern look and feel
- Larger file support – up to 1 Terabyte
- Dramatic speed and performance enhancements due to the integration of SVR5 (UnixWare) kernel technology
- Multi processor support increased from 4 to 32 processors
- Increased memory support increased from 4 GB to 64 GB
- Dynamic loadable drivers
- Supports Java 1.4.2
- Supports OpenServer 5.0.7 certified applications
- Automatic kernel tuning
- Includes latest security enhancements
  - SSH , IP firewall filter, IPsec, Encrypted File Systems
- Supports new version of Apache 1.3
- Includes Mozilla 1.7
- Includes KDE graphical desktop
- Includes Tomcat support
- Supports Samba 3.0.13
- Includes MySQL database (Community version)
- Includes Postgresql database
- Latest PHP and Perl support
- Support for fibre channel devices
- IDE Raid controller support
- Supports USB printers
- Accelerated networking equivalent to UnixWare
- Improved disk I/O performance equivalent to UnixWare
- Encrypted file system and archives
- Updated asynchronous I/O
- Support for hot-plug memory
- Emergency recovery CD support
- High throughput journaling file system
- Support for UnixWare 7.1.4 applications
- Single certification for ISVs for OpenServer and UnixWare applications
- Full backwards compatibility including support for Xenix applications

OPENSERVER 6 KEY BENEFITS

- Provides a development environment on which to create single certification applications.
- Improved capacity, speed, security, and reliability for trouble-free installation, administration, and operation.
- Lower total costs of ownership (TCO) with streamlined installation and configuration utilities.
- Faster performance yields more productivity for all users.
- Broader hardware support.
- Lower support costs improves TCO.
- Improved MTBSS means greater productivity for all users and system administrators.
- Easier system management using a GUI wile retaining the classic command line interface.
- Newer hardware support allows use of lower cost, newer devices.
- Greater peace of mind with improved security and encryption.
- Open standards mean greater device and software compatibility.
- Confidence in SCO's robust indemnification of unencumbered intellectual property.
- Bundled applications provide total, compatible, tested solutions for business.
- Improved software development tools mean broader range of applications at a competitive price to end users.
- Improved scalability means greater ROI for customers and channel partners.
- Enterprise class kernel brings Unix to small and medium-sized customers on low-cost, commodity hardware, thereby reducing TCO.
- Backward compatibility for Xenix/286 systems provides peace of mind and confidence in SCO as a long-term software provider.

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OPENSERVER 6 COMPARED TO OPENSERVER 5.0.7

OpenServer 6 is the next major release of SCO OpenServer. With a decade of rock solid stability and dependability, SCO OpenServer runs critical business applications and provides networking for millions of customers in businesses and branch offices around the world. The SCO OpenServer 6 release adds many new features strengthening the power of UNIX®.

Features	OpenServer 5.0.7*	OpenServer 6
Kernel	System V Release 3.2	System V Release 5
Threads	UDK User Level*	Kernel Level and User Level
Large File Support	Maximum of 2GB	Maximum of 1TB
Dynamically Loadable Kernel Modules	No	Yes
Kernel Auto Tuning	No	Yes
Hot Plug PCIx	No	Yes
Hot Plug CPU	No	Yes
Hot Add Memory	No	Yes
Encrypted Filesystem Support	No	Yes
IPsec and VPN Support	No	Yes
Multi Path I/O	No	Yes
Network Interface Failover	No	Yes
Wireless Network Card Support	Prism II	Prism II and Centrino
USB Printer Support	No	Yes
Medialess Boot	TCP boot PROM	PXE
Supported X Servers	X11 R5 X Server	X.org X11 RB X Server
Emergency Recovery	Floppy and Tape only	Tape, CD-ROM/DVD-ROM
File and Print Server	AFPS 4 and Samba 2.28	Samba 3
Web Server	Apache 1	Apache 1 and 1.3.33

Features	OpenServer 5.0.7*	OpenServer 6
Browser	Mozilla 1.6*	Mozilla 1.7.8
Printer Subsystems	System V LP	System V LP and CUPS
Java 1.4.2	Yes*	Yes
Databases included in product	None	MySQL and PostgreSQL
NFS Version	2	3
CD-ROM/DVD-ROM Record	CD record*	CD and DVD record
DOS filesystem support	FAT, FAT 16	FAT, FAT 16, FAT32, VFAT, Joliet
Supported Graphical Desktops	XDT3	KDE 3.3 and XDT3
PPP	SCO PPP, MorningStar PPP	MorningStar PPP
Bundled Support	No	Optional
Application Compatibility	SCO Xenix, SCO UNIX®, SCO OpenServer™ 5 binaries and limited support for UnixWare 7 and SCO OpenServer 6 Binaries	SCO Xenix, SCO UNIX®, SCO OpenServer™ 5, UnixWare 7 and SCO OpenServer 6 binaries
CPU Chipset Support	Intel® 486, Pentium or Greater, AMD32; Intel EM64T and AMD64 in 32-bit mode	Intel® Pentium or greater, Centrino, AMD32; Intel EM64T and AMD64 in 32-bit mode
Number of CPUs supported	Scales up to 4 CPUs	Scales well up to 16 CPUs, Supports up to 32 CPUs
Maximum Memory	4GB	16GB of General Purpose Memory, 64GB of Shared Memory
Disk Controller Support	IDE and SCSI I, II, and III, Fibre Channel	IDE, SCSI I, II, and III, Serial SCSI, SATA, I20 and Fibre Channel and SAS for HP Proliant product
SAN Support	No	HP MSA 1000

**Available via maintenance pack or supplement. Note: SCO Update pack features not included.*

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OPENSERVER 6 REQUIREMENTS

Hardware	Minimum	Recommended	Maximum
CPU	A single Intel® Celeron®, Pentium®, Pentium II, Pentium II Xeon™, Pentium III, Pentium III Xeon, Pentium 4, or Intel Xeon microprocessor, or a microprocessor that is 100% compatible (e.g., AMD Athlon™, Athlon 64, Duron™, Sempron™, or Opteron™ processor)	Pentium P4	32 CPUs
Memory	64MB of Random Access Memory (RAM) is required. For running graphically-intensive applications like Java or KDE, a minimum of 128 MB of RAM is required	256MB	64GB
Disk Space	To install all packages included in the media kit, 4GB of disk space is required. Small footprint installations can run on partitions as small as 1GB.	8GB	1TB (per disk)
HBA	IDE	SCSI, SATA, or SAS*	1024
Other	Requires a CD-ROM and a BIOS that supports booting from the CD-ROM, keyboard, and monitor	Mouse, NIC, and 1.44MB floppy drive	

OPENSERVER 6 EDITIONS

	Starter Edition	Enterprise Edition
Users	2	10
Memory	1GB	4GB
CPUs	1	4
Restrictions	Special user bump	None

SCO OPENSERVER RELEASE 6 FREQUENTLY ASKED QUESTIONS

Why is SCO releasing a new version of SCO OpenServer?

SCO OpenServer has become the standard for excellence on commodity hardware. SCO OpenServer 6 is being released at this time to meet the ever-changing needs of our customers for new hardware support, higher performance, and a lower total cost of ownership.

What does SCO Openserver 6 provide that I can't already get in SCO OpenServer 5.0.7?

We have prepared a feature comparison showing SCO OpenServer 6 compared to SCO OpenServer 5.0.7. See www.sco.com/products/openserver6/comparison/.

Why should I consider SCO UNIX, given the popularity of Linux and Windows Server products?

Reliability continues to be the most important SCO OpenServer 6 differentiator. OpenServer is known for its phenomenal stability and quality. A recent IDC survey of 1000 IT professionals found UNIX to be superior to Linux in multiprocessing, integration, security, and skills availability. Overall UNIX was more likely to meet expectations for features, overall performance and manageability. Additional competitive advantages include low TCO, established reseller relationships, and a profitable reseller business model.

With this revived interest in SCO OpenServer, what will happen to SCO UnixWare?

SCO UnixWare is positioned to provide Enterprise-level capacity, where SCO OpenServer 6 is best used in the small- to medium-sized business environment and with branch or franchise locations.

What new features will SCO OpenServer 6 provide developers?

Several new features in SCO OpenServer 6 will make the work of application developers easier, including the following:

- New and Improved Development System and Environment
  - Modern C/C++ compilers based on SVR5 technology
  - Standard compliant, 64-bit data types
  - High performance
  - Two modes: Native and OSR5
- Use native mode for threads, LFS, and single certification between OpenServer 6 and UnixWare 7
- Use OSR5 mode for compatibility with existing OSR5 binary libraries
  - Java 1.5, Java Communication API (javax.com)
  - Latest PHP and Perl
  - PostgreSQL and MySQL
- Application Compatibility
- OpenServer 6 provides excellent breadth of application compatibility
  - Xenix binaries just work
  - SCO OpenServer 5 (and SCO UNIX and Open Desktop) binaries just work
  - UnixWare binaries just work

Who is the customer for SCO OpenServer 6?

SCO's primary market opportunity with SCO OpenServer 6 is with small businesses with 5-99 employees. SCO's channel has successfully reached this market for more than 25 years; competitors still face the barrier of building an appropriate channel to reach the market. The small business opportunity continues to be attractive because the market is not saturated.

There are over 20 million small businesses worldwide, compared to only 183,000 medium businesses. According to IDC, the majority of small businesses do not have servers today. IDC states that small businesses are buying their first servers for shared internet access, shared printing, file sharing, storage and remote access. These companies adopt technology to improve efficiency and productivity, save money, or increase competitive advantage.

Small businesses want proven technologies with mainstream status, accompanying price declines, and customized solutions for their vertical markets. Gartner research indicates that small businesses continue to rely on solution providers and don't care about buying leading brands. These characteristics increase SCO opportunity.

How does SCO OpenServer 6 compare with SCO OpenServer 5.0.7?

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Preliminary benchmark tests indicate that SCO OpenServer 6 is as much as 200% faster than SCO OpenServer 5.0.7. SCO plans to publish a report of its benchmark tests at a later date.

My development team is comfortable with the existing look of SCO OpenServer 5.0.7. Will there be much of a "learning curve" for them to get comfortable with SCO OpenServer 6?

Even with the many improvements in SCO OpenServer 6, SCO has been able to maintain backward compatibility with previous versions -- all the way back to Xenix on a 386-class box. SCO OpenServer 6 does provide the K Desktop Environment (KDE) for users who wish a graphical user interface (GUI), but the system will be very familiar to users.

Can I upgrade my system from OpenServer 5 to Openserver 6?

For most applications, where they do not circumvent previous versions of SCO OpenServer or UnixWare, they will just run. Some applications may require a recompilation on SCO OpenServer 6. An upgrade guide is available HERE that provides more details.

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SELECTED PRODUCT RESOURCES

- OpenServer 6 Internet Homepage
- OpenServer 6 Data Sheet
- OpenServer 6 Product Description
- OpenServer 6 Sales Guide
- Single Certification Data Sheet
- Reviewers Guide
- Upgrade Guide
- Technical White Paper
- Web Seminars

Please visit www.sco.com/products/openserver6 for resources.

GLOSSARY OF TERMS AND ABBREVIATIONS

AC97 Audio Codec '97 (AC'97) is the specification for high-quality sound.

AFS Acer Fast Filesystem, one of the Legacy filesystems of SCO UNIX.

Apache The Apache HTTP Web Server.

BIND9 Berkley Internet Name Domain is an implementation of the DNS Protocol Suite.

BTLD Boot Time Loadable Driver, a device driver that can be loaded into the kernel at install/boot time.

C/C++ C is a high-level programming language that was developed in the mid-1970s. C++ is a programming language that was built off the C language.

CPU Central Processing Unit.

CUPS Common Unix Print Subsystem.

cURL cURL is a command line tool for transferring files with URL syntax, supporting FTP, FTPS, HTTP, HTTPS, GOPHER, TELNET, DICT, FILE and LDAP.

DCU The Device Configuration Utility.

Divvy A utility that allows you to divide a disk partition into up to 15 filesystems.

DNS Domain Name Service.

DOS Disk Operating System, early single user operating system for Intel PC from Microsoft.

EAFS Extended Acer Fast Filesystem, One of the SCO Unix Legacy Filesystems.

ES51K This should be S51K, not ES51K. Its the AT&T UNIX(R) System V 1KB Filesystem.

FAT32 Microsoft Filesystem (File Allocation Table)shipped in Win 95 and later.

Foomatic Printer Interface Scripts for CUPS.

FTP File Transfer Protocol, mechanism for transferring files over the network.

GIMP-print A set of printer drivers written to take advantage of the full capabilities of a wide range of printers.

HBA Host Bus Adapter, Another name for a disk controller on OpenServer.

HPIJS HP Inkjet Printer Driver Package.

HTFS High Throughput Filesystem, the Journaling filesystem of SCO Openserver 5.

Idbuild Utility to build the SVR5 Kernel and Kernel Modules on Openserver 6.

IPsec IP Security Protocol: a set of protocols <protocol.html that support secure exchange of packets <packet.html at the IP <IP.html layer.

Java A high level programming language developed by Sun Microsystems.

Joliet Joliet is a Microsoft extension to the ISO 9660 file system that allows Unicode characters to be used in file names.

KDE3 The K Desktop Environment, version 3, is a graphical user interface, not unlike that of Microsoft Windows for UNIX- and Linux-based systems.

LFS Large File Support, specifically files larger than 2Gb on 32-bit systems.

LPO Loop Protection Option.

MAC Media Access Control, the hardware address of which uniquely identifies each node of a network.

MMDF Multi-channel Memo Distribution Facility, a popular mail transport agent (MTA).

MTBSS Mean time between system stops. A more relevant term than MTBF, mean time between failure.

MySQL An open source relational database.

NAS Network-Attached Storage. A server that is dedicated to file sharing.

NAT Network Address Translation, an Internet standard that enables a local-area network (LAN) to use one set of IP addresses for internal traffic and a second set of addresses for external traffic.

NFSv3 Network File System, a client/server application that allows all network users to access shared files stored on computers of different types.

ODT On-die termination improves signal integrity of the memory channel, enabling more efficient system operation and lower overall system cost.

OpenDesktop A platform for office automation that enables the integration of administrative process; a common communications infrastructure.

OpenSSH A free, open-source implementation of the SSH (Secure SHell) protocols.

OpenSSL The Open Source toolkit for SSL/TLS.

OSR5 OpenServer Release 5, an implementation of the SVR3.2 UNIX kernel, and the most widely-installed UNIX operating system for Intel hardware.

PCI Peripheral Component Interconnect is an interconnection system between a microprocessor and attached devices in which expansion slots are spaced closely for high-speed operation.

Perl Practical Extraction and Reporting Language, a robust programming language frequently used for creating CGI programs on Web servers.

PHP Self-referentially short for PHP: Hypertext Preprocessor, an open source, server-side, HTML embedded scripting language used to create dynamic Web pages.

PostgreSQL Open source database software.

S51K A filesystem format.

Samba SAMBA is a collection of free software developed to provide Microsoft file system services from UNIX file servers.

SAN Storage Area Network.

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SATA Serial advanced technology attachment (ATA), an evolution of the parallel ATA physical storage interface.

SCSI Small Computer System Interface.

Sendmail A common UNIX-based mail program.

SOAP Simple Object Access Protocol. SOAP is a protocol for accessing a Web Service.

Squid A full-featured Web proxy cache designed to run on Unix systems.

SVR5 Unix System 5 (V) Release 5, the foundation of both SCO OpenServer 6 and SCO UnixWare.

TCI/IP (Transmission Control Protocol / Internet Protocol) - The protocols, or conventions, that computers use to communicate over the Internet.

Tomcat An open source implementation of Java Servlet and JavaServer Pages technologies that is used by SCM as a Web server.

USB Universal Serial Bus. USB is a standard port that enables you to connect external devices.

VFAT The Microsoft Windows 95 and NT version of the File Allocation Table (FAT) filesystem. Supports long file names.

VTOC fdisk disk partition and UnixWare slices.

VxFS Veritas Journaled File System (VxFS).

Wget Retrieves files using HTTP, HTTPS and FTP, the most widely-used Internet protocols.

X.org X.Org is the worldwide consortium empowered with the stewardship and collaborative development of the X Window System technology and standards

X11R5 Version 11 release 5 of the X protocol.

X11R6 Version 11 release 6 of the X Window System.

XAA Xfree86 Acceleration Architecture (X-Windows).

Xenix A version of Unix developed by Microsoft.

XML eXtensible Markup Language. A subset of SGML constituting a particular text markup language for interchange of structured data.

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