

Getting new applications and services to market quickly is vital in today's business environment. To make it happen, users need to be able to deliver production-ready code fast, but often find they have to make compromises and deal with the frustration of supporting multiple, fragmented Linux variants. Businesses that deploy applications need to find ways to cut the costs of their open source applications while also ensuring that deployments go smoothly.

Highlights

- Virtualize your network and manage its resources with Project Crossbow
- Install OpenSolaris on SPARC using the network based Automated Installer
- Recover changes to your data over time with Time Slider and its new snapshot management features
- Turn any OpenSolaris host into an iSCSI storage device or target using COMSTAR, now featuring an iSCSI port provider
- Build your own OpenSolaris software packages with the automated build and packaging service, SourceJuicer
- Leverage the first OS optimized for the new Intel Xeon processor 5500 series (Nehalem) systems

The OpenSolaris™ Operating System offers built-in features that help you build, debug, and run new applications faster, presented in an environment familiar to Linux developers. Based on Solaris, the only open operating system that has delivered proven results running everything from mission-critical enterprise databases to high-performance Web farms, from large-scale SMP systems to industry-standard x86 systems, the OpenSolaris OS allows developers and businesses to take advantage of the latest Solaris innovations in a distribution that meets their development and deployment needs.

It includes access to unique features like Dynamic Tracing (DTrace), Solaris Containers, Predictive Self Healing, and ZFS™ as well as the latest innovations from the OpenSolaris community. The OpenSolaris OS runs on more than 1,000 AMD, Intel®, and SPARC® platforms, providing great advantages in terms of flexibility and scalability.

OpenSolaris continues to deliver on a six-month cycle with powerful new features, built on the strong foundations of the Solaris™ enterprise-class operating system. And now, with the release of OpenSolaris 2009.06, this freely available operating system provides new benefits for the desktop, for administrators, and for developers.

What's new in OpenSolaris 2009.06

Featuring the latest innovations from the OpenSolaris community, OpenSolaris 2009.06 enables faster development, access to more software, and a wide range of new capabilities.

Network Virtualization with Project Crossbow

Project Crossbow brings network virtualization and resource management to OpenSolaris 2009.06 for the first time.

SPARC

OpenSolaris 2009.06 comes to the SPARC platform! Now you can enjoy the benefits of OpenSolaris on all Sun4v based platforms (UltraSPARC T1 and T2) and Sun4u based platforms (UltraSPARC I, II, III and IV) with an OBP level of 4.17 or greater. Coupled with the addition of the Logical Domains (LDDoms) Manager, enjoy virtualization of CMT platforms out of the box!

Automated Installer

The automated installer enables you to install the OpenSolaris 2009.06 release on multiple x86 and SPARC platforms, using new enhanced and simplified installation tools. It requires minimal server setup, no client setup, and installation setup is decentralized. You can use the new installer on a Web server to build your client's machine.

Time Slider Snapshot Management

Quickly back up your user home directories with a new snapshot management feature in Time Slider. Take a manual snapshot with a click of a mouse, and revert to it at a later time. Time Slider is now easier than ever to use, with improved file manager integration.

iSCSI Port Provider for COMSTAR

COMSTAR is the software framework that allows you to turn any Solaris host into a SCSI target. The COMSTAR framework makes it possible for all SCSI device types (tape, disk, and the like) to connect to a transport (such as Fibre Channel) with concurrent access to all logical unit numbers (LUN) and a single point of management. DTrace probes have also been added to COMSTAR in the SCSI Target Mode Framework (STMF) and SCSI Block Device (SBD).

Nehalem

OpenSolaris 2009.06 is one of the first platforms to fully support Intel's new Xeon 5500 processor, formally codenamed 'Nehalem', with substantially increased performance, better power efficiency, improved reliability and cost effective virtualization for x64. This release brings power awareness to the thread dispatcher, allowing threads to be scheduled according to the power state of the CPU. With Nehalem's support for deep idle CPU power management, known as deep C-state, OpenSolaris can dynamically place uninitialized CPUs into a state where they consume a fraction of the power that the CPU would use in normal operation.

Advantages of OpenSolaris

As a worldwide leader in open source, Sun engineers have been participating in open source communities and listening to what customers want. With the OpenSolaris OS, Sun offers the choice of a truly open source operating system from a company that has a team of thousands of engineers who both contribute to the innovation and support the software. Sun also provides the assurance of proven, extensive testing processes and worldwide support that fits the needs of both startups and the largest global enterprises.

Developers can easily install OpenSolaris and experiment risk-free. The OS delivers the ability to run as many OS instances as your systems can handle as well as a high-performance, reliable platform for

deployments of solutions based on AMP (Apache, MySQL, and PHP) and MARS.

OpenSolaris offers a significant advantage with its network-based Image Packaging System, which provides automated, easily customizable patching for a wide range of components. It offers even more benefits by leveraging key Solaris features such as ZFS, Solaris Containers, and Predictive Self Healing to make deployment easier. The OpenSolaris Image Packaging System gives developers and businesses a delivery mechanism that helps them get their applications out through their own package repository, helping them to easily expand their reach and gain more insight into what their customers are running. Independent software vendors can ensure that their application will run correctly on their customers' systems because their customers will have all the necessary patches.

Contributing Software to OpenSolaris is made more easy. If you don't see your favorite open source application, now's your chance! The OpenSolaris SourceJuicer enables you to submit spec file build recipes that make it easy to port open source software to the contrib package repository that everyone can access. Check out the SourceJuicer contribution process and join the Software Porters Community.

OpenSolaris User Forums offer you a chance to get your toughest questions answered in real time by a worldwide community of technical leaders. The OpenSolaris community is vibrant, active, and engaged, offering opportunities to communicate with operating system developers around the world as well as the Sun engineers working on the OpenSolaris project.

Simple installation, worldwide support

The OpenSolaris OS is distributed on a single LiveCD that includes the core OS – the kernel, system libraries, and system utilities. The LiveCD's localized, graphical installer makes the installation process familiar and

Learn More

You can learn more about the OpenSolaris OS at opensolaris.com

Download OpenSolaris 2009.06 at opensolaris.com/get

To join the OpenSolaris community, visit opensolaris.org.

To learn more about Sun's support offerings for OpenSolaris, visit www.sun.com/service/opensolaris.

intuitive. It also allows developers to try the OS before installation, and to select, install, and upgrade additional components using the OpenSolaris Image Packaging System.

Sun's OpenSolaris subscriptions feature a unique combination of telephone and online technical support, automatic notification of package updates, and bug escalation to Sun engineers. With two support levels to choose from, OpenSolaris users can find the right level of support for their particular needs.

Sun also offers OpenSolaris support specifically for developers through Developer Expert Assistance, which provides dedicated online support service including technical assistance for code support, programming questions, and diagnostic advice.