The Solaris™ 9 Operating Environment: The Services Platform

9 Cool Things about Solaris 9 Operating Environment (OE)

	What's Cool	Message (Performance improvements of Solaris 9 OE over Solaris 8 2/00 OE)	Components	
M A N A G E A B L E	1. **Sun ONE Architecture Foundation (Directory and App Server Integration)**	Fully integrating the SunTM ONE Directory Server and the Sun™ ONE Application Server, Platform Edition into Solaris™ 9 OE makes it easier to deploy scalable, reliable services. Embedded directory server increases overall performance by up to 5X. Application server is 34% faster. Up to 35% performance improvement on Sun ONE Web Server.	• Sun ONE Application Server, Platform Edition • Sun ONE Directory Server	• Java 2 Platform, Standard Edition 1.4 (J2SE 1.4) • Software for evaluation: various Sun ONE products, Oracle 9i
	2. **Data Management**	Solaris 9 OE delivers the performance and stability you need to meet your production database and file system requirements with no incremental costs. UFS Direct I/O enhancements provide an 87% TPC-C database performance improvement over default UFS.	**UFS** • Concurrent Direct I/O • Snapshots, Journaling/Logging • mkfs Performance	**Solaris™ Volume Manager (SVM)** • Soft Disk Partitions • Powerful management environment
	3. **Provisioning and Change Management**	Provisioning and change management includes the ability to quickly and securely install and deploy any software stack at any time. Lowers the cost of operations and simplifies the provisioning and change management process. Web Start Flash installations can be completed 15X faster than before (4-5 hour task now done in 20 minutes). Solaris JumpStart installations of Sun Cluster up to 70% faster.	**Sun™ Management Center** • Change Manager (Project iChange) **Solaris Provisioning Services** • Solaris Live Upgrade • Web Start	**Solaris Provisioning Services cont'd** • Solaris Flash • Solaris JumpStart™ • Install • Secure WAN boot
	4. **Server Virtualization: Solaris Containers, Resource Management**	The combination of Solaris Containers and Dynamic System Domains are an innovative way to partition the system, to achieve higher utilization. Integration of resource management has licensing cost savings of between $2000-$30,000 per system.	• Solaris Containers • Solaris™ 9 Resource Manager • Dynamic System Domains	• Dynamic Reconfiguration (DR) • Automated Dynamic Reconfiguration (ADR) • Reconfiguration Coordination Manager (RCM)
S E C U R E	5. **Security**	Solaris 9 OE delivers secure out-of-the-box solutions and a fully integrated suite of security services to deliver security everywhere. A high speed, commercial grade firewall, SunScreen 3.2, now integrated with Solaris 9 OE, for free, saving up to $15,000 per firewall purchase.	**Solaris Security Services** • Post install profiling (phase 1) • Profiling during install (phase 2) • Firewall everywhere (Integrated SunScreen™ 3.2) • Solaris™ Secure Shell	**Solaris Security Services cont'd** • IPsec / IKE • Kerberos v5 server • Secure LDAP • Extensible password encryption • PAM enhancements
A V A I L. A B L E	6. **Clusters with SunPlex™ Systems/ Availability**	Industry's best platform for managing mission-critical services. The SunPlex environment, consisting of Solaris 9 OE and Sun Cluster software, delivers 24 x 7 availability that many businesses demand. This combination offers the most complete clustered solution for SAP deployments.	• Sun Cluster software • Sun™ StorEdge Traffic Manager • Network Multipathing (IPMP)	• Modular Debugger • Mitigation of buffer overflows • Driver fault injection
	7. **Configuration Management**	Allows customers to have optimal configurations, leading to higher availability and reduced cost of administration. Brings aggregated intelligence from Sun installed base to Sun customers. The new Enterprise Services RAS Profile technology provides the best solutions to help optimize customer configurations.	• S9 Registry	• Solaris Patch Manager • BigAdmin℠ portal • Sun BluePrints™ /Reference configurations
S C A L E.	8. **Performance**	The most scalable OS is getting better. Solaris 9 OE is able to make applications run faster without recompiling, recoding, or re-architecting. Significant performance improvements throughout the OE including a 3X performance improvement of the embedded Java Virtual machine (J2SE), a 3X HPC improvement, a 5X directory performance improvement, and a 4X performance improvement in OLAP using the enhanced multi-threading library.	**Performance Optimization** • Advanced Page coloring • Memory Placement Optimization • Multiple Page Size support • Network Cache and Accelerator (NCA)	• Enhanced Directory Name Lookup Cache (DNLC) • Threading library improvements • J2SE 1.4 • Remote Shared Memory API (RSMAPI)
S O L V E S N E E D S	9. **Compatibility**	Solaris 9 OE provides customers with investment protection which includes binary compatibility across the history of Solaris and Sun's entire product line. Solaris 9 OE has enhanced built-in Linux compatibility.	• Solaris Compatibility Assurance Toolkit (SolCAT) (GTS/CTS) • Application Compatibility Guarantee	• Linux Compatibility Assurance Toolkit (LinCAT) • GNOME Desktop • Various Enterprise Services offerings