

## Features of Sun's Supported Operating Systems

Last updated January 20, 2008

<i>Feature</i>	<i>Solaris 10</i>	<i>Red Hat Ent. Linux 5</i>	<i>MS Windows 2003 Server Datacenter Edition</i>
Open Source development model	Yes, OpenSolaris <a href="http://www.opensolaris.org">www.opensolaris.org</a>	Yes, Fedora	No
Open Source Initiative (OSI) compliant license	Yes, Common Development and Distribution License (CDDL) <a href="http://www.sun.com/cddl">www.sun.com/cddl</a>	Yes, GNU Public License (GPLv2)	No
CPU Architectures supported	UltraSparc, Sparc-64, Sparc-CMT, Intel x86-64, AMD, Coming soon: IBM Power and Z-Series	Intel x86-64, Intel Itanium2, AMD, IBM Power, Z-Series	Intel x86-64, Intel Itanium, AMD
Platforms Supported	Over 956 including from Sun, IBM, HP, Dell and others (Jan 08) <a href="http://www.sun.com/bigadmin/hcl">www.sun.com/bigadmin/hcl</a>	387 (Jan 08) <a href="http://hardware.redhat.com/">hardware.redhat.com/</a>	7,993 x86-64, Itanium <a href="http://www.windowsservercatalog.com">www.windowsservercatalog.com</a>
Applications available	5499 Total (Jan 08) 3406 on x86-64 platform <a href="http://www.sun.com/bigadmin/apps/">www.sun.com/bigadmin/apps/</a>	842 (RHEL 5 x86-64 Nov 07) 3000 (RHEL 4 x86-64)	5,612 <a href="http://www.windowsservercatalog.com">www.windowsservercatalog.com</a>
Average support life cycle	12 years <a href="http://www.sun.com/software/solaris/lifecycle.xml">www.sun.com/software/solaris/lifecycle.xml</a>	7 years	10 years <a href="http://support.microsoft.com/gp/lifepolicy">support.microsoft.com/gp/lifepolicy</a>
OEM Partners	Sun, Fujitsu, IBM, Intel, Dell	Sun, Dell, IBM, HP, Fujitsu, Hitachi, NEC, AMD	Sun, Dell, IBM, HP, Fujitsu, Hitachi, NEC, AMD, Intel and more
First shipped	March 2005	March 2007	April 2003
Freely downloadable	Yes	No	No
Commercial List License cost	\$0 <a href="http://www.sun.com/service/subscriptions">http://www.sun.com/service/subscriptions</a>	Requires Subscription	\$2,999
1 year premium support up to 2 sockets (List price)	\$1080	\$1299	NA for Datacenter Edition
1 year premium support unlimited sockets (List price)	\$1980	\$2,499	\$2243
GSA contract price 1 year premium support up to 2 sockets (List price)	\$599	\$934.78	\$713 Quotes obtained from <a href="http://GSAadvantage.gov">GSAadvantage.gov</a> and my vary based on Enterprise Licensing and hardware bundling
OS unique advanced technologies	<ul style="list-style-type: none"> <li>● Dynamic Tracing</li> <li>● ZFS</li> <li>● Solaris containers virtualization</li> <li>● Network Virtualization</li> <li>● Resource management</li> </ul>	<ul style="list-style-type: none"> <li>● SE-Linux based multi-level security</li> <li>● Global File System</li> <li>● Distributed Lock manager</li> <li>● Block level storage</li> </ul>	<ul style="list-style-type: none"> <li>● Active Directory</li> <li>● Windows Terminal Services</li> <li>● IIS</li> <li>● Secure by default</li> <li>● Message Queuing</li> </ul>

	<ul style="list-style-type: none"> <li>with fair share scheduling and dynamic CPU pools</li> <li>● Predictive Self healing</li> <li>● Dynamically loading kernel</li> <li>● Service Management Facility</li> <li>● Secure by Default</li> <li>● Cryptographic framework</li> <li>● Digitally signed executables</li> <li>● Memory Placement Optimization</li> <li>● Massive scalability</li> <li>● SAMFS/QFS (optional)</li> <li>● Solaris Trusted Extensions</li> <li>● Guaranteed Binary Compatibility</li> <li>● Microstate Accounting</li> </ul>	<ul style="list-style-type: none"> <li>encryption</li> <li>● ext3 file system</li> <li>● Xen community based virtualization</li> </ul>	<ul style="list-style-type: none"> <li>● File Server Resource Manager</li> <li>● NUMA Controls</li> <li>● Distributed File System</li> <li>● CIFS</li> <li>● XML and UDDI services</li> </ul>
Multi-level Security	Yes, Trusted Extensions including Trusted NFS, networking, printing, CDE and Gnome	Yes, SELinux. No GUI support	No
Unix03 standards compliant	Yes <a href="http://www.opengroup.org/openbrand/register">www.opengroup.org/openbrand/register</a>	No	No
Indemnification	Yes <a href="http://www.sun.com/software/solaris/support.jsp">www.sun.com/software/solaris/support.jsp</a>	Yes <a href="http://www.redhat.com/rhel/details/assurance/">www.redhat.com/rhel/details/assurance/</a>	Yes
Binary compatibility guarantee	Yes <a href="http://www.sun.com/software/solaris/guarantee.jsp">www.sun.com/software/solaris/guarantee.jsp</a>	No	No
Foreign Language support	37 languages, 123 locales	19	~93 languages and locales
Real-time scheduling and interrupt control	Yes, since Solaris 8	planned	No
64-bit addressing	Yes, since 1996	Yes	Yes
Maximum CPU cores	144 on current hardware	64 certified on X64	64
Maximum RAM	2 TB on current hardware	256 GB on X64	1 TB
File System and Volume manager Support	Solaris Volume Manager Unix File System ZFS NFSv4 FAT32 Sun Cluster Global File System (optional) QFS/SAMFS (optional) Lustre (Optional) Veritas Volume Manager (Optional)	Ext2, Ext3 ReiserFS NFSv4 LVM FAT32 Global File System Distributed Lock Manager Lustre (Optional) Veritas Volume Manager (Optional)	FAT32 NTFS DFS Storage manager File Server Resource Manager Veritas Volume Manager (Optional)
Maximum File Size	2 <sup>64</sup> bytes (ZFS)	2 TB (ext 3) 8 EB (GFS)	2 TB (NTFS)
Maximum file system size	2 <sup>64</sup> bytes (ZFS)	16 TB (ext3) 8 EB (GFS)	256 TB (NTFS)
Sun Ray ultra-thin client support	Yes, server and client	Yes, server and client	Yes, client access via RDP

Virtualization options	Solaris Containers (Sparc and X64) Dynamic System Domains (Sparc) Logical Domains (Sparc CMT) VMware (X64) Qemu (X64) Win4Solaris (X64) Xen (planned) (X64) Microsoft Virtualization support	Xen (X64) VMware (X64) Qemu (X64)	VMware Microsoft Virtual Server Virtual Iron
Online updating	Yes	Yes	Yes
Common Criteria Evaluations	Yes, EAL 4+ CAPP and RBACPP completed LSPP in process Strong security target including graphical components, networking, printing <a href="http://www.sun.com/software/security/securitycert/">www.sun.com/software/security/securitycert/</a>	Yes EAL 4+ CAPP, RBACPP and LSPP completed on HP and IBM platforms	Yes EAL4+ CAPP, RBACPP
Application containment	Role Based Access Control Process Right Management Solaris Containers Multi-Level Security Containers	Role Based Access Control Type Enforcement	Role Based Access Control
Volume manager included	Yes	Yes	Yes
Role Based Access Control	Yes	Yes	Yes
Firewall included	Yes	Yes	Yes
MySQL, PostGreSQL, Perl, Apache, SAMBA included	Yes	Yes	No
iSCSI, multi-pathing I/O, InfiniBand	Yes	Yes	Yes
Package management	System V Packages Image Packaging System (planned)	RPM, YUM	Windows Registry/Installer InstallShield
NFSv4, IPv6, IPsec, IKE	Yes	Yes	IPv6, Ipsec, IKE
gcc compilers	Yes	Yes	Gnu SDK and utilities
Desktop Environment components included	Common Desktop Env./Multi-level CDE Gnome/Multi-level Gnome StarOffice GIMP Mozilla Evolution Firefox Thunderbird and more	Gnome OpenOffice GIMP Mozilla Firefox Thunderbird Evolution and more	Windows user interface Internet Explorer MS Office (optional extra charge) MS Outlook (optional extra charge)

References:

<http://www.microsoft.com>

<http://www.redhat.com>

<http://www.sun.com/solaris>

<http://reg.dlt.com/contracts-Redhat-BPA.asp>