

Building the AMD Ecosystem

April 22, 2004

Core software technologies that provide underlying software functionality

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Infrastructure software that enables organizations to run their global businesses

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Vertical applications that create, analyze, and deliver data

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Operating Systems



Linux Operating Systems	32-bit	64-bit	For More Information
cAos Community Linux (Open Source)	✓	alpha-1	http://mirror.caosity.org/mtest/www.caosity.org/
Conectiva Linux Enterprise Edition	✓		http://www.conectiva.com.br/
Debian GNU/Linux (Open Source)	✓	Beta	http://lists.debian.org/debian-amd64/
Fedora Project (Open Source)	✓	✓	http://www.linuxtx.org/amd64faq.html
Gentoo Linux 2004.0 for x86 (Open Source) Gentoo Linux 2004.0 for AMD64	✓	✓	http://store.gentoo.org/index.php
Mandrake Linux 9.2	✓	✓	http://www.mandrakesoft.com/products/92/amd64
Mandrake Linux Corporate Server 2.1	✓	✓	http://www.mandrakesoft.com/products/corporate-server
Mandrake Clustering for HPC	✓	✓	http://www.mandrakesoft.com/products/clustering
Mandrakelinux 10.0 Community Mandrakelinux 10.0 Community for AMD64	✓	Beta1	http://www.mandrakelinux.com/en/10.0/features/ http://www.mandrakelinux.com/en/100amd64beta.php3
Red Hat Linux 9	✓		http://www.redhat.com/download/products.html
Red Hat Fedora Linux	✓	✓	http://fedora.redhat.com/
Red Hat Enterprise Linux ES 3.0	✓		http://www.redhat.com/trial/
Red Hat Enterprise Linux WS 3.0	✓	✓	
Red Hat Enterprise Linux AS 3.0	✓	✓	
Scyld Beowulf Cluster Operating System	✓	✓	http://www.scyld.com/
SUSE LINUX Desktop 1 SUSE LINUX 9.0 Personal	✓ ✓		http://www.suse.de/en/business/products/sld/index.html http://www.suse.de/en/private/products/suse_linux/i386/personal.html

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Operating Systems



Linux Operating Systems con't	32-bit	64-bit	For More Information
SUSE LINUX 9.0 Professional for x86 SUSE LINUX 9.0 Professional for AMD64	✓	✓	http://www.suse.de/en/private/products/suse_linux/i386/professional.html http://www.suse.com/us/private/products/suse_linux/i386/64bit.html
SUSE LINUX Enterprise Server 8 for x86 SuSE LINUX Enterprise Server 8 for AMD64	✓	✓	http://www.suse.de/en/business/products/server/sles/index.html http://www.suse.de/us/business/products/server/sles/amd64.html
Tao Linux for AMD64	✓	✓	http://taolinux.org/
Turbolinux Cluster Server 8	✓		http://www.turbolinux.com/products/tlcs8/
Turbolinux Enterprise Server 8	✓		http://www.turbolinux.com/products/tles8/
Turbolinux 8	✓	✓	http://www.turbolinux.com/products/tl8a/
Turbolinux 8 Server	✓		http://www.turbolinux.com/products/tl8s/promo.html
UnitedLinux Version 1.0	✓	✓	http://www.unitedlinux.com/pdfs/UL1_0ProdSpecSheet.pdf
NetWare Operating System	32-bit	64-bit	For More Information
NetWare 6.5 - network OS by Novell	✓		http://www.novell.com/products/netware/
UNIX Operating Systems	32-bit	64-bit	For More Information
FreeBSD 5.2.1 (Open Source)	✓	✓	http://www.freebsd.org/relnotes/CURRENT/relnotes/amd64/article.html
NetBSD 1.6.1 (Open Source)	✓	✓	http://www.netbsd.org/
OpenBSD (Open Source)	✓	Dev	http://www.openbsd.org/
Solaris 9 for x86 by Sun	✓		http://www.sun.com/software/solaris/binaries/index.html
Solaris 10 for x86 by Sun	Dev	Dev	http://www.sun.com/software/solaris/10/

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Operating Systems



Windows® Operating Systems	32-bit	64-bit	For More Information
Windows® Server 2003 Standard Edition Enterprise Edition Web Edition	✓ ✓ ✓	Beta Beta	http://www.microsoft.com/windowsserver2003/evaluation/trial/evalkit.msp (32-bit evaluation) http://www.microsoft.com/windowsxp/64bit/downloads/upgrade.asp (64-bit beta)
Windows Small Business Server 2003 Standard Premium	✓ ✓		http://www.microsoft.com/windowsserver2003/sbs/evaluation/trial/default.msp
Windows XP (desktop/workstation)	✓	Beta	http://www.microsoft.com/windowsserver2003/64bit/default.msp (64-bit beta)

Building the AMD64 Ecosystem

Development Tools



Compilers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Absoft Pro Fortran v8.2 http://www.absoft.com/index2.html	✓	✓		✓	Planned
GNU Compilers C, C++ (gcc) 3.3 (Open Source) http://gcc.gnu.org/	✓	✓	✓	✓	
GNU Fortran Compiler (g77) 3.3 (Open Source) http://gcc.gnu.org/	✓	✓	✓	✓	
Microsoft Visual C, C++ Compilers http://msdn.microsoft.com/library/default.asp?url=/library/en-us/kmarch/hh/kmarch/64bitamd_65nr.asp				✓	Beta
NAGWare f95 Compiler (Fortran) by NAG http://www.nag.com/nagware/NP/NP_trial.asp	✓	✓		✓	
PathScale EKO Compiler Suite (C, C++, Fortran) http://www.pathscale.com/products1.html	✓	✓			
PGI C, C++, Fortran Compilers http://www.pgroup.com/	✓	✓		✓	Planned
Steel Bank Common Lisp (SBCL) (Open Source) http://b9.com/sbcl-amd64.html	✓	Planned			
Sun One Studio 8, Compiler Collection (C, C++) http://developers.sun.com/prodtech/cc/			✓		

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Development Tools



Debuggers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
DDT (Distributed Debugging Tool) 1.6 by Streamline Computing http://www.streamline-computing.com/softwaredivision_1.shtml	✓	✓			
Fx2 - multi-language debugging tool by Absoft http://www.absoft.com/Products/Debuggers/fx2/fx2_debugger.html	✓	✓			
GDB6.0 - GNU Debugger (Open Source) http://gnu.org/	✓	✓	✓	✓	
SoftICE System Debugger - device driver debugger by CompuWare Corp http://www.compuware.com/products/driverstudio/softice.htm				✓	Beta
Sun ONE Studio Compiler Collection Debugger by Sun http://www.sun.com/software/download/products/3e9f29f9.html			✓		
TotalView 6.3.1 - complex code debugger by Etnus http://www.etnus.com/Download/demo-tv.html	✓	✓			
Windows® Debugging Tools - 32-bit Version by Microsoft® http://www.microsoft.com/whdc/ddk/debugging/installx86.msp				✓	
Windows Debugging Tools - Native AMD64 Beta by Microsoft® http://www.microsoft.com/whdc/ddk/debugging/installAMDbeta.msp					Beta

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Development Tools



Profilers/Performance Analysis	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
AMD CodeAnalyst 2.1 for Linux by AMD http://www.developwithamd.com/appPartnerProg/codeanalyst/home/index.cfm?action=homelinux	✓	✓			
AMD CodeAnalyst 2.2 for Windows® by AMD http://www.developwithamd.com/appPartnerProg/codeanalyst/home/index.cfm?action=home				✓	Beta
oprofile system profiler for Linux (Open Source) http://oprofile.sourceforge.net/news/	✓	✓			
SeeWithin/Pro by MSTI http://www.mpi-softtech.com/	✓			✓	
PAPI - APIs for accessing hardware counters (Open Source) http://icl.cs.utk.edu/papi/index.html	✓				
PView - processor viewer by Microsoft http://msdn.microsoft.com/library/default.asp?url=/library/en-us/vcug98/html/_asug_overview_pview.asp				✓	Planned (Whidbey)
Sun ONE Studio Performance Analyzer by Sun (in Compiler Collection) http://developers.sun.com/prodtech/cc/analyzer_index.html			✓		
Spy++ graphical profiler by Microsoft http://msdn.microsoft.com/library/default.asp?url=/library/en-us/vcug98/html/_asug_home_page.3a_spy.2b2b.asp				✓	Planned (Whidbey)
Vampir and Vampirtrace by Pallas http://www.pallas.com/e/products/vampir/index.htm	✓				

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Development Tools



Libraries	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
AMD Core Math Library (ACML) 2.0 by AMD and NAG (Free) http://www.developwithamd.com/apppartnerprog/acml/home/index.cfm?action=home	✓	✓		✓	Planned
ATLAS 3.5.x (optimized - Open source) http://math-atlas.sourceforge.net/	✓	✓		✓	Planned
GNU glibc 2.2.5 (Open Source) http://www.gnu.org/software/libc/libc.html#Overview	✓	✓	✓		
GNU glibc 2.3.2 (optimized - Open Source) http://www.gnu.org/software/libc/libc.html#Overview		✓			
GOTO Library (Open Source) http://www.cs.utexas.edu/users/flame/goto/		✓			
Numerical Libraries by NAG http://www.nag.co.uk/numeric/numerical_libraries.asp	✓	✓		✓	
VGL -- graphics libraries and tools by Volume Graphics GmbH http://www.volumegraphics.com/products/vgl/index.html	✓	✓		✓	

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Development Tools



JVM/JIT (Java)	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Blackdown J2SE v1.4.2-rc1 http://www.blackdown.org/java-linux/java2-status/jdk1.4-status.html	✓	✓			
IBM J2SE Version 1.3.1 and 1.4.1 http://www-136.ibm.com/developerworks/java/	✓			✓	
SUN J2SE 1.4.2 http://java.sun.com/j2se/1.4.2/download.html	✓		✓	✓	
SUN J2SE 1.5 http://java.sun.com/j2se/1.5.0/index.jsp	Beta	Beta	Beta	Beta	
Sun Java Studio 5, upgrade 1 http://wwws.sun.com/software/download/products/3fb913e7.html/	✓		✓	✓	
Other Tools	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Open Source Tools (Binutils, Python, Ruby, Tcl/Tk) http://www.gnu.org/	✓	✓	✓	✓	
PERL Scripting Language (Open Source) http://www.perl.com/	✓	✓	✓	✓	
YASM - modular assemble project (Open Source) http://www.tortall.net/projects/yasm/	✓	✓			

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Development Tools



Toolkits - Device Drivers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
DriverStudio - device driver dev tool by CompuWare Corp http://www.compuware.com/products/driverstudio/782_ENG_HTML.htm				✓	Beta
Solaris XFree86 Video Driver and Porting Kit (Open Source) http://www.tools.de/solaris/xf86/			✓		
SoftICE Drive Suite 3.0 - device driver development tool by CompuWare Corp http://www.compuware.com/products/driverstudio/softice.htm				✓	Beta
Toolkits - Applications	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Microsoft Visual Studio .NET 2003 by Microsoft http://msdn.microsoft.com/vstudio/productinfo/default.aspx				✓	
Microsoft Visual Studio 2005 (Whidbey) by Microsoft http://msdn.microsoft.com/vstudio/productinfo/roadmap.aspx#whidbey				✓	Pre-beta
PGI Cluster Development Kit 5.1 by PGI http://www.pgroup.com/Downloads/	✓	✓			
PGI Workstation 5.1 by PGI http://www.pgroup.com/Downloads/	✓	✓		✓	Planned
Sun Java Studio Standard 5, upgrade 1 by Sun http://www.sun.com/software/sundev/jde/	✓		✓	✓	
Sun One Studio 8, Compiler Collection by Sun http://developers.sun.com/prodtech/cc/			✓		
Vega Prime - 3-D app development tool by Multigen Paradigm http://www.multigen-paradigm.com/products/runtime/vega_prime/	✓			✓	Planned
VGL - graphics toolkit by Volume Graphics GmbH http://www.volumegraphics.com/products/vgl/index.html	✓	✓		✓	

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Development Tools



Message Passing Interface (MPI)	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
ChaMPIon/Pro (MPI 2.1) by MSTI http://www.mpi-softtech.com/	✓	✓		✓	Planned
MPICH (Open Source) http://www-unix.mcs.anl.gov/mpi/mpich/	✓	✓	✓	✓	✓
MPI/Pro (MPI 1.2) by MSTI http://www.mpi-softtech.com/	✓	✓		✓	
Myrinet Software (Open Source managed by Myrinet) http://www.myri.com/scs/	✓	✓		✓	
QsNET MPI Libraries (Open Source managed by Quadrics) http://doc.quadrics.com/quadrics/QuadricsHome.nsf/DisplayPages/Homepage	✓	✓			
Scali MPI Connect - message passing software by Scali http://www.scali.com/index.php?loc=18	✓	✓			
WMPI II by Critical Software http://www.criticalsoftware.com/hpc/wmpi2.php	✓			✓	

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IT Infrastructure



Diagnostics	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Hot CPU Tester Pro by 7BYTE http://www.7byte.com/index.php?page=hotcpu				✓	Planned
PC Check by Eurosoft http://www.eurosoft-uk.com/pc_check.htm	✓	✓		✓	✓
PC-Doctor Suite by PC-Doctor http://www.pc-doctor.com/news/03--AMD-Opteron.htm	✓	✓		✓	
QuickTech Professional by Ultra X http://www.uxd.com/qtpro.shtml	*	*	*	*	*
BIOS	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
AMIBIOS8 by AMI http://www.ami.com/products/product.cfm?CatID=6&SubID=14&prodid=127	✓	✓		✓	
BIOS products by Insyde http://www.insydesw.com/				✓	
LinuxBIOS (Open Source) http://www.linuxbios.org/news/index.html#k8	✓	✓			
Phoenix cME First BIOS by Phoenix Technologies http://www.phoenix.com/en/products/phoenix+cme+firstbios/	✓	✓		✓	

* OS Independent

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Security	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
eTrust Antivirus by Computer Associates http://esupport.ca.com/index.html?/public/antivirus/infodocs/beta/etrustantivirusbetaprogram.asp				✓	Beta
FLEXIm - licensing software by Macrovision http://www.macrovision.com/products/flexim/	✓	✓		✓	
McAfee Virus Scan by Network Associates http://nai.com/us/products/mcafee/antivirus/email/vs.htm				✓	✓
Norton AntiVirus by Symantec http://www.symantec.com/product/				✓	
Norton Personal Firewall by Symantec http://www.symantec.com/product/				✓	
RSA BSAFE Encryption Products by RSA http://www.rsasecurity.com/products/bSAFE/bSAFE.html	✓	✓		✓	Planned
SafeDisk by Macrovision http://www.macrovision.com/products/safedisc/				✓	
SunScreen Lite - firewall by Sun http://www.sun.com/software/securenet/lite/			✓		
SunScreen Secure Net - enterprise class firewall by Sun http://www.sun.com/software/securenet/			✓		
Symantec Enterprise VPN by Symantec http://www.symantec.com/product/				✓	

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System Management	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
ActiveBatch - batch job scheduling by Advanced Systems Concepts, Inc. http://www.advsyscon.com/Products/Products.asp				✓	Beta
HP Systems Insight Manager - system management software by HP http://h18004.www1.hp.com/products/servers/management/hpsim/index.html	✓			✓	
IBM Director 4.1 - system management tool by IBM http://www-1.ibm.com/servers/eserver/xseries/systems_management/director_4.html	✓				
IT Lifecycle Management Products by Altiris http://www.altiris.com/home.asp				✓	
Lifekeeper High Availability Services by SteelEye http://www.steeleye.com/	✓		✓		
RAMDisk Plus - virtual disk solution by Super Speed http://www.superspeed.com/superspeed/index.html				✓	✓
Rational ClearCase - software asset management tool by IBM http://www-306.ibm.com/software/awdtools/changemgmt	✓			✓	
Microsoft System Management Server by Microsoft http://www.microsoft.com/smserver/evaluation/features/default.asp				✓	
Solaris 9 Resource Manager - component of Solaris x86 OS http://wwws.sun.com/software/solaris/ds/ds-srm/index.html			✓		
Unicenter by Computer Associates http://www3.ca.com/Solutions/Solution.asp?id=315	✓	Planned		✓	
Windows® Services for UNIX by Microsoft http://www.microsoft.com/windows/sfu/productinfo/sysreqs/default.asp				✓	

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Cluster Management	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Cluster Systems Management by IBM http://www-1.ibm.com/servers/eserver/clusters/software/	✓				
EnFuzion 8.0 - computational grid software by Axceleon http://www.axceleon.com/eval.html	✓	✓	✓	✓	
Grid Engine - distributed research management tool (Open Source) http://gridengine.sunsource.net/project/gridengine/download.html	✓	✓			
LSF 5.1 - batch app workload processing tool by Platform Computing http://www.platform.com/products/LSFfamily/	✓			✓	
PBS Pro - workload management solution by Altair http://www.altair.com/software/pbs_abo.htm	✓			✓	
Quadrics Linux Cluster Eagle Software by Qaudrics http://web1.quadrics.com/website/newpages/03LinuxSoftware.html	✓	✓			
Resource Management System (RMS) by Quadrics http://doc.quadrics.com/quadrics/QuadricsHome.nsf/DisplayPages/Homepage	✓	✓			
SCI Sockets - software library by Dolphin Interconnect Solutions, Inc. http://www.dolphinics.com/products/software/sci_sockets.html	✓	✓		Planned	
TerraGrid - I/O platform by Terrascale Technologieis http://www.terrascale.com/	✓	✓			
Torque - manager for batch jobs, distributed computing (Open Source) http://www-user.tu-chemnitz.de/~kapet/torque/	✓	✓			

Building the AMD64 Ecosystem

IT Infrastructure



File, Print, and Directory Services	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
General Parallel File System – high-performance cluster file system by IBM® http://www-1.ibm.com/servers/eserver/clusters/software/gpfs.html	✓	mid-2004			
Microsoft Active Directory - component of Windows® Server 2003 http://www.microsoft.com/windowsserver2003/techinfo/overview/default.msp				✓	Beta
Nero 6.0 Ultra Edition - CD and DVD burning software by Ahead Software http://www.nero.com/us/index.html				✓	
NFS - Network File System (Open Source) http://www.nfsv4.org/	✓	✓	✓	✓	
PowerQuest Storage Management Products (Symantec) http://www.powerquest.com/				✓	
Samba/SMB http://www.samba.org/	✓	✓	✓	✓	
Solaris Volume Manager - component of Solaris x86 OS http://www.sun.com/software/solaris/ds/ds-volumemgr/index.html			✓		
SUN Java System Directory Server http://www.sun.com/software/products/directory_srvr/home_directory.html	✓		✓	✓	
SUN StorEdge Enterprise Backup Storage by Sun http://www.sun.com/storage/software/data_protection/backup/			✓		

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IT Infrastructure



Email/Groupware Servers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
CommuniGate Pro - messaging software by Stalker Software Inc. http://www.stalker.com/cpro/default.html	✓	✓		✓	
Lotus Domino by IBM http://www.lotus.com/lotus/offering1.nsf	✓			✓	
Microsoft Exchange 2000 and Exchange 2003 http://www.microsoft.com/exchange/default.asp				✓	
Oracle Collaboration Suite by Oracle http://otn.oracle.com/products/cs/index.html	✓			✓	
sendmail (Open Source) http://www.sendmail.org/	✓	✓	✓	✓	
Terminal/Presentation Servers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
MetaFrame XP Presentation Server by Citrix http://www.citrix.com/				✓	
Windows Server 2003 Terminal Services - component of OS http://www.microsoft.com/windowsserver2003/technologies/terminalservices/default.mspx				✓	Beta

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Virtual Machine Software	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Virtual PC 2004 by Microsoft http://www.microsoft.com/windowsxp/virtualpc/previous/default.asp				✓	
Virtual Server 2005 by Microsoft http://www.microsoft.com/windowsserver2003/evaluation/trial/virtualserver.mspx				Beta	
VMware GSX Server 3.0 (departmental servers) by VMware Planned versions will allow concurrent 32/64 computing and will be rolled out over the next 18 months, starting with Workstation version http://www.vmware.com/products/desktop/ws_features.html	✓	2004		✓	2005
VMware ESX Server Planned versions will allow concurrent 32/64 computing and will be rolled out over the next 18 months, starting with Workstation version http://www.vmware.com/products/		2005			2005
VMware Workstation Planned versions will allow concurrent 32/64 computing and will be rolled out over the next 18 months, starting with Workstation version http://www.vmware.com/products/	✓	2Q04		✓	2005

Building the AMD64 Ecosystem

IT Infrastructure



Web Servers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Apache HTTP Server (Open Source) http://www.apache.org/	✓	✓	✓	✓	
Enterprise Ready Server by Covalent http://www.covalent.net/products/ERS/index.html	✓	Planned		✓	
Internet Information Services (IIS) by Microsoft http://www.microsoft.com/WindowsServer2003/iis/default.mspx				✓	Beta
Stronghold Enterprise Apache Solution by Red Hat http://www.redhat.com/software/stronghold/	✓				
Sun Java System Web Server by Sun http://wwws.sun.com/software/products/web_srvr/home_web_srvr.html	✓		✓	✓	
Zeus Web Server by Zeus http://www.zeus.com/products/zws/	✓	✓	✓		
Application Servers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Dynamo Application Server by ATG http://www.atg.com/en/products/atg62_overview.jhtml	✓		✓		
Websphere by IBM http://www-306.ibm.com/software/info1/websphere/index.jsp?tab=products/appserv	✓	Planned		✓	Planned
Microsoft .NET Environment http://www.microsoft.com/net/				✓	Pre-beta
Sun Java System Application Server by Sun http://wwws.sun.com/software/products/appsrvr/home_appsrvr.html	✓		✓	✓	
Oracle Application Server http://www.oracle.com/appserver/index.html?content.html	✓			✓	

Building the AMD64 Ecosystem

Infrastructure Software



Database Servers	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Advantage Ingres Enterprise Relational Database by Computer Associates http://www3.ca.com/Press/PressRelease.asp?CID=42085	✓	✓		✓	
DB2 Universal Database by IBM http://www-306.ibm.com/software/data/db2/udb/	✓	✓		✓	Planned
EMPRESS RDBMS - embedded real-time database by Empress Software http://www2.empress.com/whatsnew/pressrel/0402.htm	✓	✓			
Informix Products by IBM http://www-306.ibm.com/software/data/informix/	✓			✓	
Microsoft SQL Server 2000 by Microsoft http://www.microsoft.com/sql/default.asp				✓	
Microsoft SQL Server (Yukon) by Microsoft http://www.microsoft.com/sql/yukon/productinfo/top30features.asp				Planned	Planned
MySQL (Open Source) http://www.mysql.com/	✓	✓	✓	✓	
MYSQL Cluster by MYSQL AB (Open source version also available) http://www.mysql.com/	✓		✓		
Oracle 9i, Oracle 9i RAC by Oracle http://otn.oracle.com/software/products/oracle9i/index.html	✓	Spring 2004		✓	
Oracle 10g by Oracle http://www.oracle.com/database/	✓	Planned		✓	Planned
PostgreSQL (Open Source) http://www.postgresql.org/	✓	✓	✓	✓	
Sybase Adaptive Server Enterprise by Sybase http://www.sybase.com/detail/1,6904,1027680,00.html	✓		✓		

Building the AMD64 Ecosystem

Vertical Applications



Decision Support - Data Analysis	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Stata 8 - integrated statistical package by Stata http://www.stata.com/news/linux64.html	✓	✓		✓	
Business Processing - ERP/CRM/SCM	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Oracle E-Business Suite (Oracle 11i) by Oracle http://www.oracle.com/applications/	✓			✓	
mySAP Business Suite by SAP for Sun V20z server http://www.sap.com/solutions/netweaver/linux/platforms/sun.asp	✓				

Building the AMD64 Ecosystem

Vertical Applications



EDA	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
BlueSpec SystemVerilog www.bluespec.com	✓	Q204			
Cadence Encounter - digital IC design platform Incentive - functional verification platform Virtuoso - custom design platform http://www.cadence.com/company/newsroom/press_releases/pr.aspx?xml=012104_amd64	✓ ✓ ✓	Q104 2004 2004			
Magma Design Automation Inc. Entire Product Line (RTL-to-GDSII software) BlastCreate BlastFusion APX BlastPlan BlastNoise BlastRail QuickCap & QuickInd http://www.magma.com/	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓			
Mentor Graphics Calibre WORKbench and RET batch tool product family Other Calibre products http://www.mentor.com/dft/	✓ ✓	✓ Planned			
PDF Solutions Yield Ramp Simulator by http://www.pdf.com/index.phtml	✓	✓			
ReShape Inc. PD Optimizer tool suite http://www.reshape.com/	✓	✓			

Building the AMD64 Ecosystem

Vertical Applications



EDA con't	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Stable-Soft Stable-Soft Tools 2.7.1 - mask layout solutions http://www.stable-soft.com/index.html	✓	✓			
Synopsys Galaxy Design Platform Discovery Verification Platform http://www.synopsys.com/news/announce/press2003/amd64_pr.html	✓ ✓	✓ ✓			
Synplicity Synplify ASIC (ASIC synthesis) Certify (ASIC prototyping with FPGAs) Synplify Pro & Amplify (FPGA synthesis & physical synthesis) http://www.synplicity.com/	✓ ✓ ✓	Q104 Q204 Q404			

Building the AMD64 Ecosystem

Vertical Applications



Kernel Engines (for CAD, DCC, CAE apps)	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
3D ACIS Modeler – 3-D modeling engine by Spatial http://www.spatial.com/news_events/pr/2003/11/1069090656/index.html?LV3=Y	✓	✓		✓	✓
D-Cubed geometric components by D-Cubed http://www.d-cubed.co.uk/index.htm	✓	✓		✓	✓
mental ray V3.2 - image rendering engine by mental images http://www.mentalimages.com/2_1_2_configurations/index.html	✓	✓		✓	✓
Parasolid - solid model kernel by UGS PLM Solutions (EDS) http://www.eds.com/news/news_release_template.shtml?rowid=3604				✓	✓
POV-RAY - ray tracing rendering software (Open Source) http://www.povray.org/	✓	Planned		✓	
Renderman Pro Server 11.5.3 - image rendering software by Pixar https://renderman.pixar.com/	✓	✓			
Computational Engines (for technical computing)	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
gridMathematica - computation engine for clusters by Wolfram Research http://www.wolfram.com/products/gridmathematica/	✓	✓		✓	
Matlab Release 15 - computational engine by MathWorks http://www.mathworks.com/support/sysreq/release14/all.html	Planned			Planned	
Mathematica - computational engine by WolframResearch http://www.wolfram.com/products/mathematica/introduction.html	✓	✓		✓	

Building the AMD64 Ecosystem

Vertical Applications



CAD	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
amira - 3D visualization application by TGS http://www.tgs.com/news/view_pr.asp?lang=eng&id=44	✓	1Q04		✓	2Q04
Autodesk Products AutoCAD – 2-D drafting and 3-D design tool Inventor - mechanical engineering and design Mechanical Desktop - 3D solid modeling system http://usa.autodesk.com/adsk/servlet/home?siteID=123112&id=129446				✓	
MicroStation V8.0 - design and 3-D modeling software by Bentley http://www.bentley.com/				✓	
Open Inventor (OIV) - 3D graphical developers toolkit by TGS http://www.tgs.com/news/view_pr.asp?lang=eng&id=44	✓	2Q04		✓	Planned
Pro/Engineer - 3D CAD software by PTC http://www.ptc.com/				✓	
SolidEdge V14.0 – 3D CAD software by UGS PLM Solutions (EDS) http://www.solid-edge.com/				✓	
SolidWorks- 3-D mechanical design software by SolidWorks http://www.solidworks.com/pages/products/solidworks/index.html				✓	
Unigraphics NX by UGS PLM Solutions (EDS) http://www.eds.com/news/news_release_template.shtml?rowid=3604				✓	Planned

Building the AMD64 Ecosystem

Vertical Applications



CAE	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Abaqus 6.4.2 by Abaqus, Inc. http://www.abaqus.com/	✓	Planned		✓	
ANSYS and ANSYS Workbench by ANSYS, Inc. http://www.ansys.com/ansys/index.htm	✓			✓	
CFX 5.6 - fluid dynamics software by CFX (Ansys) http://www-waterloo.ansys.com/cfx/about/index.html	✓			✓	
EnSight and EnSight Gold 7.6 - visualization tools by CEI http://www.ensight.com/dec2003/mac_opteron.html	✓	✓	✓	✓	
Fieldview 9 - CFD post processing by Intelligent Light http://www.ilight.com/	✓			✓	
Fluent 6.1 - CFD modeling software by Fluent http://www.fluent.com/about/news/newsletters/03v12i2_fall/a19.htm	✓	Planned			
HFSS V9.0 by Ansoft http://www.ansoft.com/products/hf/hfss/				✓	
ICEM CFD 4.3.1 by ICEM CFD Engineering, Inc. (Ansys) http://www.icemcfcd.com/index.html	✓			✓	
LS-DYNA mpp960 by LSTC http://www.lstc.com/	✓	✓		✓	
Moldflow Plastic Advisors (MPA) by MoldFlow http://www.moldflow.com/products/MPA/	✓			✓	

Building the AMD64 Ecosystem

Vertical Applications



CAE - con't	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Nastran, Patran V5i by MSC Software http://www.mscsoftware.com/products/products.cfm?Q=132&Z=149	✓			✓	
PAM-CRASH / PAM-SAFE Solver Version 2003 by ESI Group http://www.esi-group.com/	✓				
PZFlex - simulation software by WAI http://www.wai.com/AppliedScience/Software/index-software.html	✓				
Radioss Starter and Radioss Engine by Mecalog http://www.radioss.com/group/frame.html	✓	✓		✓	
STAR-CD - CFD modeling software by CD-Adapco http://www.cd-adapco.com/index.html	✓				
VGStudio Max 1.2 and VGL by Volume Graphics GmbH http://www.volumegraphics.com/news/index.html	✓	✓			

Building the AMD64 Ecosystem

Vertical Applications



Geophysical	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
GeoQuest by Paradigm http://www.paradigmgeo.com/home/	✓	Demo at SEG 2003			
GeoProbe by Magic Earth/Landmark (Halliburton) http://www.lgc.com/landmark/news/pressreleases/20031027-landmark+and+ibm.htm	✓	Demo at SEG 2003			
ProMax by Landmark (Halliburton) http://www.lgc.com/	✓				
Scientific	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
MM5 - mesoscale weather modeling by Mesoscale Prediction Group, NCAR http://www.mmm.ucar.edu/mm5/mm5-home.html	✓	✓			
Weather Research and Forecast (WRF) Modeling (Open Source) http://wrf-model.org/	✓				

Building the AMD64 Ecosystem

Vertical Applications



Life Sciences	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
AMBER 8 - molecular simulations by SCRIPPS http://amber.scripps.edu/	✓				
BLAST 2.7.7 - gene/protein identification app by NCBI http://www.ncbi.nlm.nih.gov/blast/blast_whatsnew.shtml#20040202	✓	✓			
CPMD - ab-initio molecular dynamics by IBM/Max Planck Institute http://www.cpmc.org/	✓				
GAMESS-UK - quantum chemistry package by CFS Ltd http://www.dl.ac.uk/CFS/cfs_home.html	✓	✓		✓	
Gaussian 03 - electronic structure program by Gauissian.com http://www.gaussian.com/home.htm	✓				
MOLPRO - quantum chemistry package, licensed by Cardiff University http://www.molpro.net/	✓	Dev			
NWChem - computational chemistry package by EMSL at PNNL http://www.emsl.pnl.gov/docs/nwchem/nwchem.html	✓	Dev		✓	
PC GAMESS - quantum chemistry package (Open Source) http://www.msg.ameslab.gov/GAMESS/pcgameess.shtml	✓	✓		✓	
WU BLAST 2.0 - gene/protein identification app by Washington Univ http://blast.wustl.edu/	✓	✓	✓		

Building the AMD64 Ecosystem

Vertical Applications



Digital Content Creation - Video/Film	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
3Ds max 6 - modeling/animation tool by Discreet (AutoDesk) http://usa.autodesk.com/adsk/servlet/index?siteID=123112&id=3422340				✓	
Adobe® Applications Premier - video editing software Photoshop - graphics tool Video Collection - video production software http://www.adobe.com/main.html				✓	
Avid Xpress - video editing software by Avid http://www.avid.com/products/xpress/					
Canopus Video Software Imaginate - still image animation and motion tool ProCoder - transcoding tool Xplode Professional 3D - digital video effects app http://www.canopus.us/us/canopus/pr_AMD64_support.asp				✓	Planned
Dr. DivX for AMD64 - video encoding app by DivX Networks, Inc. http://www.divxnetworks.com/press/pr_detail.php?pr_id=74				✓	Beta
Flight IG - image generation app by MultiGen Paradigm http://www.multigen-paradigm.com/solutions/flightig/lockheed.shtml	✓	Q104			
Lightwave 3D - 3-D graphics/animation app by NewTek http://www.newtek.com/products/lightwave/index.php				Q303	
MediaStudio Pro7 - video editing app by Ulead Systems Inc http://www.ulead.com/aboutulead/press/pr09-23-03.htm				✓	
Nero 6 - CD/DVD burning software from Ahead Software http://www.nero.com				✓	Planned
Moonlight-Elecard MPEG2 Video Codec http://www.elecard.com/products/mpeg2decoder.shtml				✓	Planned

Building the AMD64 Ecosystem

Vertical Applications



Digital Content Creation - Video/Film con't	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
pc-Nova By Aechelon Technology http://www.aechelon.com/media/press_releases/amd_64_pr_9_23_03.html				✓	Planned
Pinnacle Liquid Edition 5.5 http://www.pinnaclesys.com/ProductPage_n.asp?Product_ID=1474&Langue_ID=7				✓	
POV-RAY - Open Source raytracer http://www.povray.org/	✓		✓	✓	
PowerVCR - digital video and TV recording app by CyberLink http://www.gocyberlink.com/english/products/product_main.jsp?ProdId=20				✓	
QuickTime - media encoder/decoder by Quicktime http://www.apple.com/quicktime/				✓	
ShowServer - home media center app by Home Media Networks Limited http://www.showshifter.com/index.htm				✓	Planned
VT [3] - video/graphics production tools by NewTek http://www.newtek.com/products/vt/info/new-features.html				✓	
Windows® XP Media Center Edition 2004 by Microsoft http://www.microsoft.com/windowsxp/mediacenter/default.asp				✓	
Windows Media 9 Series - digital media platform by Microsoft http://www.microsoft.com/windows/windowsmedia/default.aspx				✓	
WinDVD - DVD software player by InterVideo http://www.intervideo.com/jsp/Home.jsp				✓	
XSI v3.0 - 3-D graphics environment by SoftImage http://www.softimage.com/products/xsi/v3/	✓			✓	

Building the AMD64 Ecosystem

Vertical Applications



Gaming Infrastructure	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Americas Army Game by U.S. Army, server side application http://www.americasarmy.com	✓	✓			
CryEngine by Crytek GmbH, server side application http://www.crytek.com/news/story.php?id=5&p=0&n=pr&t=0		✓			
CounterStrike Server by Valve, server side application http://www.counterstrike.com	✓	✓			
Steam by Valve, server side application http://www.steampowered.com	✓	✓			
Unreal Tournament 2004 by Epic Games, Inc., server side application http://www.unrealtournament.com/	✓	✓			

Building the AMD64 Ecosystem

Vertical Applications



Games	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Americas Army Game by U.S. Army, distributed by Super Computer Inc. http://www.americasarmy.com	*	*	*	*	*
CryEngine by Crytek GmbH http://www.crytek.com/news/story.php?id=5&p=0&n=pr&t=0				✓	Planned
Far Cry by CryTekGmbH www.farcry-thegame.com				✓	Planned
Unreal Tournament 2004 by Epic Games, Inc. http://www.unrealtournament.com/	✓			✓	Planned
Unreal Engine – 2004 http://www.epicgames.com/UnrealEngineNews.html	✓	✓		✓	Planned

Building the AMD64 Ecosystem

Client Software



Desktop Productivity	Linux x86	Linux AMD64	Solaris x86	Windows x86	Windows AMD64
Acrobat® - document exchange software by Adobe® http://www.adobe.com/products/acrobatpro/main.html	✓			✓	
Gnome (Open Source graphical desktop) http://www.gnome.org/	✓		✓	✓	
KDE (Open Source graphical desktop) http://www.kde.org	✓		✓		
Lotus SmartSuite Millenium Edition 9.8 http://www.lotus.com/products/smartsuite.nsf				✓	
Microsoft Internet Explorer http://www.microsoft.com/windows/ie/default.asp				✓	Beta
Microsoft Office http://office.microsoft.com/home/default.aspx				✓	
Microsoft Outlook http://office.microsoft.com/home/office.aspx?assetid=FX01085793				✓	Beta
Mozilla (Open Source) http://www.mozilla.org/	✓		✓	✓	
Netscape Communicator http://www.mozilla.org/	✓		✓	✓	
OpenOffice (Open Source) http://www.openoffice.org/	✓		✓	✓	
StarOffice by Sun http://wwws.sun.com/software/star/staroffice/	✓		✓	✓	

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