



CINT2000 Result

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IBM Corporation

IBM eServer xSeries 460 (3.0 GHz Intel Xeon MP)

SPECint2000 = 1390

SPECint_base2000 = 1362

SPEC license #: 11 | Tested by: IBM, Research Trinagle Park, NC | Test date: Jul-2005 | Hardware Avail: May-2005 | Software Avail: Apr-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	142	986	143	980	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	145	965	145	965	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	68.0	1618	68.0	1618	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	120	1499	120	1499	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	88.5	1130	88.3	1133	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	148	1218	148	1218	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	70.4	1846	69.7	1866	[Bar chart showing ratio bars for 252.eon]			
253.perlbmk	1800	118	1529	104	1728	[Bar chart showing ratio bars for 253.perlbmk]			
254.gap	1100	77.9	1412	77.9	1412	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	83.2	2285	83.1	2287	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	143	1051	141	1064	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	224	1340	203	1478	[Bar chart showing ratio bars for 300.twolf]			

Hardware

CPU: Intel Xeon MP (3.0 GHz Xeon, 1MB L2 Cache, 8MB L3 Cache, 667 MHz system bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: 8192KB(I+D) on chip
Other Cache: N/A
Memory: 8 x 2048 MB ECC DDR2 Dual Rank
Disk Subsystem: 36GB SAS 10k RPM
Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C/C++ Compiler 8.1 (20050409) for 32-bit applications
Intel Fortran Compiler 8.1 (20050405Z) for 32-bit applications
Microsoft Visual Studio .NET 13.0.9466 (for libraries)
MicroQuill Smartheap Library 7.30
File System: NTFS
System State: Default

Notes/Tuning Information

GENERAL

ONESTEP=yes
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

PORTABILITY FLAGS

176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

BASE TUNING

C: -fast -QxP -Qansi_alias +FDO
C++: -QxP -Qipo -Qcxx_features +FDO

PEAK TUNING

164.gzip: -fast -QxP -Qansi_alias -Oa +FDO
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: -fast -QxP -Oa +FDO shlW32M.lib
197.parser: basepeak=yes
252.eon: -fast -QxP +FDO
253.perlbmk: -fast -QxP -Qansi_alias +FDO shlW32M.lib



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Notes/Tuning Information (Continued)

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254.gap:      basepeak=yes
255.vortex    -fast -QxP +FDO
256.bzip2:    -fast -QxP -Qunroll11 -Oa +FDO
300.twolf:    -fast -QxP +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.3
              www.microquill.com
```