



CINT2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECint_rate2000 = 37.1

SPECint_rate_base2000 = 36.4

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: May-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	195	33.3	4	196	33.2
175.vpr	4	255	25.5	4	255	25.5
176.gcc	4	105	48.7	4	105	48.7
181.mcf	4	346	24.2	4	346	24.2
186.crafty	4	159	29.2	4	159	29.1
197.parser	4	230	36.3	4	230	36.3
252.eon	4	133	45.4	4	132	45.6
253.perlbnk	4	222	37.6	4	208	40.1
254.gap	4	122	41.8	4	122	41.8
255.vortex	4	150	58.9	4	149	59.0
256.bzip2	4	215	32.4	4	217	32.1
300.twolf	4	373	37.3	4	310	44.9

Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
 Secondary Cache: 2048KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 x 2048 MB ECC PC2-3200 Dual Rank
 Disk Subsystem: 73GB SCSI 10K RPM
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
 Compiler: Intel C/C++ Compiler 8.1 (20041019Z)
 Intel Fortran Compiler 8.1 (20040802Z)
 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.perlbnk: -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.perlbnk: -fast -QxP -Qansi_alias +FDO shlW32M.lib



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    -fast -QxP +FDO
256.bzip2:    -fast -QxP -Qunroll1 -Oa +FDO
300.twolf:    -fast -QxP +FDO shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib:  MicroQuill SmartHeap Library 7.3
              www.microquill.com
```