



CINT2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.4 GHz Intel Xeon)

SPECint_rate2000 = 20.7

SPECint_rate_base2000 = 20.3

SPEC license #: 11 | Tested by: IBM, Research Trinagle 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	2	182	17.8	2	183	17.7
175.vpr	2	231	14.1	2	231	14.1
176.gcc	2	97.1	26.3	2	97.1	26.3
181.mcf	2	219	19.1	2	219	19.1
186.crafty	2	151	15.4	2	151	15.4
197.parser	2	214	19.5	2	214	19.5
252.eon	2	125	24.0	2	125	24.1
253.perlbnk	2	212	19.7	2	196	21.3
254.gap	2	106	24.0	2	106	24.0
255.vortex	2	140	31.5	2	140	31.4
256.bzip2	2	194	17.9	2	195	17.9
300.twolf	2	342	20.4	2	293	23.7

Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)
 CPU(s) orderable: 1,2
 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
```