



CINT2000 Result

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IBM Corporation

IBM BladeCenter HS21 (1.60 GHz Xeon 5110, 4MB L2 Cache)

SPECint_rate2000 = 70.2

SPECint_rate_base2000 = 70.1

SPEC license #: 11 | Tested by: IBM Corporation | Test date: May-2006 | Hardware Avail: Jul-2006 | Software Avail: Mar-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	144	45.0	4	144	45.2
175.vpr	4	127	51.3	4	124	52.4
176.gcc	4	66.6	76.6	4	66.6	76.6
181.mcf	4	117	71.7	4	117	71.7
186.crafty	4	67.6	68.6	4	67.5	68.7
197.parser	4	155	54.0	4	155	54.0
252.eon	4	62.4	96.7	4	62.2	97.0
253.perlbnk	4	95.3	87.7	4	95.3	87.7
254.gap	4	76.0	67.2	4	76.0	67.2
255.vortex	4	73.8	119	4	73.8	119
256.bzip2	4	134	52.0	4	136	51.2
300.twolf	4	164	85.1	4	164	85.1

Hardware

CPU: Intel Xeon processor 5110 (1.60 GHz, 1333 MHz bus)
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1, 2
Parallel: No
Primary Cache: 32KB(I) + 32KB(D) on chip (per core)
Secondary Cache: 4096KB(I+D) on chip (per chip)
L3 Cache: N/A
Other Cache: N/A
Memory: 8 x 1024 MB ECC PC2-5300F
Disk Subsystem: 73GB SAS 15K RPM
Other Hardware: Memory and I/O Expansion Unit (P/N 42C1600)

Software

Operating System: Windows Server 2003 Enterprise Edition (32-bit)
Compiler: Intel C++ 9.1 for 32-bit applications
Build 20060323Z
Microsoft Visual Studio 2005(for libraries)
SmartHeap Library Version 8.0 from <http://www.microquill.com/>
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -fast +FDO shlW32M.lib
Base tuning for C++ programs: -fast -Qcxx_features +FDO shlW32M.lib
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
252.eon: -DHAS_ERRLIST
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak flags:
164.gzip: -fast -Qansi_alias -Oa +FDO
175.vpr: -fast -Qansi_alias +FDO
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: -fast -Qansi_alias -Oa +FDO
197.parser: -fast -Qansi_alias +FDO
252.eon: -fast +FDO
253.perlbnk: -fast -Qansi_alias +FDO shlW32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
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Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO
300.twolf: -fast -O3 +FDO shlw32M.lib