



CINT2000 Result

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IBM Corporation

IBM eServer xSeries HS20 (2.0 GHz Xeon LV, 2MB L2 Shared Cache)

SPECint2000 = 1668

SPECint_base2000 = 1663

SPEC license #: 11 Tested by: IBM Corporation Test date: Mar-2006 Hardware Avail: Mar-2006 Software Avail: Dec-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	122	1147	122	1144	
175.vpr	1400	108	1298	104	1343	
176.gcc	1100	58.1	1892	58.1	1892	
181.mcf	1800	99.1	1817	99.0	1818	
186.crafty	1000	65.0	1537	65.4	1530	
197.parser	1800	130	1387	129	1391	
252.eon	1300	63.9	2036	63.9	2033	
253.perlbmk	1800	97.1	1853	96.6	1864	
254.gap	1100	66.3	1660	66.6	1653	
255.vortex	1900	73.4	2589	73.3	2591	
256.bzip2	1500	122	1228	122	1228	
300.twolf	3000	146	2055	145	2068	

Hardware

CPU: Dual-Core Intel Processor Xeon LV .0GHz (667 MHz system bus)
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core
Secondary Cache: 2048KB(I+D) (on chip) shared by 2 cores
L3 Cache: N/A
Other Cache: N/A
Memory: 4 x 2048 MB ECC PC2-3200 Single Rank
Disk Subsystem: 73GB SCSI 10K RPM
Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C/C++ Compiler 9.0 (20051130Z) for 32-bit applications
Intel Fortran Compiler 9.0 (20051120Z) 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 -Qansi_alias +FDO shlw32m.lib
C++: -fast -Qcxx_features +FDO shlw32m.lib

PEAK TUNING

164.gzip: -fast +FDO
175.vpr: -fast +FDO
176.gcc: basepeak=yes
181.mcf: -fast +FDO shlw32m.lib
186.crafty: -fast -Oa +FDO shlw32m.lib
197.parser: -fast +FDO
252.eon: -fast +FDO shlw32m.lib
253.perlbmk: -fast -Oa +FDO shlw32m.lib



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Notes/Tuning Information (Continued)

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