



CFP2000 Result

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IBM Corporation

IBM eServer Bladecenter HS20 (2.8 GHz Xeon, 1MB L2 Cache)

SPECfp2000 = 1446

SPECfp_base2000 = 1431

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	71.4	2240	71.4	2240	
171.swim	3100	148	2098	146	2116	
172.mgrid	1800	149	1205	149	1205	
173.applu	2100	154	1362	157	1342	
177.mesa	1400	113	1243	113	1244	
178.galgel	2900	129	2249	129	2249	
179.art	2600	104	2508	104	2508	
183.earthquake	1300	68.6	1895	58.7	2215	
187.facerec	1900	121	1570	121	1567	
188.amp	2200	267	823	267	823	
189.lucas	2000	114	1759	114	1757	
191.fma3d	2100	168	1247	168	1247	
200.sixtrack	1100	197	558	197	557	
301.apsi	2600	278	934	278	934	

Hardware

CPU: Intel Xeon 2.8 (800 MHz system bus)
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
 Secondary Cache: 1024(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 x 1024 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

178.galgel: -FI /F32000000

BASE TUNING

C/F77/F90: -fast -Qansi_alias +FDO

PEAK TUNING

168.wupwise: basepeak=yes
 171.swim: -fast -f77rtl +FDO
 172.mgrid: basepeak=yes
 173.applu: -fast -Qscalar_rep- -Qauto -f77rtl +FDO
 177.mesa: -fast +FDO
 178.galgel: basepeak=yes
 179.art: basepeak=yes
 183.earthquake: -fast -Oa -Qrcd +FDO shlw32M.lib
 187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO



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Notes/Tuning Information (Continued)

188. ammp: basepeak=yes
189. lucas: -fast
191. fma3d: basepeak=yes
200. sixtrack: -fast +FDO
301. apsi: basepeak=yes