



CFP2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECfp2000 = 1644

SPECfp_base2000 = 1636

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	67.7	2363	67.7	2363	
171.swim	3100	139	2237	139	2237	
172.mgrid	1800	129	1394	129	1394	
173.applu	2100	153	1375	154	1368	
177.mesa	1400	99.8	1404	99.8	1404	
178.galgel	2900	96.3	3012	96.3	3012	
179.art	2600	69.8	3726	69.8	3726	
183.earthquake	1300	71.4	1821	71.4	1820	
187.facerec	1900	114	1670	114	1670	
188.amp	2200	195	1128	188	1173	
189.lucas	2000	103	1938	102	1966	
191.fma3d	2100	155	1352	155	1352	
200.sixtrack	1100	191	577	188	586	
301.apsi	2600	218	1191	218	1191	

Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 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

178.galgel: -FI /F32000000

BASE TUNING

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

PEAK TUNING

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



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Notes/Tuning Information (Continued)

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