



CFP2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.6 GHz Intel Xeon)

SPECfp_rate2000 = 31.4

SPECfp_rate_base2000 = 31.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	73.2	50.7	2	73.2	50.7
171.swim	2	273	26.4	2	273	26.4
172.mgrid	2	180	23.2	2	180	23.2
173.applu	2	215	22.6	2	209	23.3
177.mesa	2	89.5	36.3	2	89.5	36.3
178.galgel	2	102	66.0	2	102	66.0
179.art	2	90.3	66.8	2	90.3	66.8
183.quake	2	111	27.2	2	111	27.2
187.facerec	2	123	35.9	2	123	35.8
188.amp	2	184	27.7	2	177	28.8
189.lucas	2	181	25.6	2	181	25.6
191.fma3d	2	190	25.7	2	190	25.7
200.sixtrack	2	170	15.0	2	167	15.2
301.apsi	2	218	27.6	2	218	27.6

Hardware

CPU: Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3600
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: 2048KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4x 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 /F3200000

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.quake: -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