



CFP2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECfp_rate2000 = 30.0

SPECfp_rate_base2000 = 29.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	77.1	48.1	2	77.1	48.1
171.swim	2	271	26.5	2	271	26.5
172.mgrid	2	181	23.0	2	181	23.0
173.applu	2	217	22.5	2	210	23.2
177.mesa	2	100.0	32.5	2	100.0	32.5
178.galgel	2	110	61.1	2	110	61.1
179.art	2	92.4	65.3	2	92.4	65.3
183.quake	2	111	27.1	2	111	27.1
187.facerec	2	130	33.8	2	130	33.9
188.amp	2	201	25.4	2	192	26.5
189.lucas	2	181	25.7	2	181	25.7
191.fma3d	2	197	24.7	2	197	24.7
200.sixtrack	2	190	13.4	2	188	13.6
301.apsi	2	234	25.8	2	234	25.8

Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1
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 DDR2 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.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.ammf: -Oa -QxP
189.lucas: -fast -QxP
191.fma3d: basepeak=yes
200.sixtrack: -QxP -Qipo +FDO
301.apsi: basepeak=yes