



CFP2000 Result

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IBM

IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECfp_rate2000 = 19.0

SPECfp_rate_base2000 = 19.0

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	1	67.9	27.3	1	67.9	27.3
171.swim	1	139	25.8	1	139	25.8
172.mgrid	1	130	16.1	1	130	16.1
173.applu	1	153	15.9	1	154	15.8
177.mesa	1	100	16.2	1	100	16.2
178.galgel	1	96.7	34.8	1	96.7	34.8
179.art	1	69.5	43.4	1	69.5	43.4
183.quake	1	71.3	21.1	1	71.3	21.1
187.facerec	1	113	19.5	1	113	19.5
188.amp	1	196	13.0	1	188	13.6
189.lucas	1	103	22.6	1	102	22.8
191.fma3d	1	156	15.6	1	156	15.6
200.sixtrack	1	191	6.67	1	188	6.78
301.apsi	1	219	13.8	1	219	13.8

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 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 -Qunroll11 -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