



# CFP2000 Result

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## IBM

### IBM eServer BladeCenter HS20 (3.4 GHz Intel Xeon)

SPECfp\_rate2000 = 19.8

SPECfp\_rate\_base2000 = 19.7

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	65.2	28.5	1	65.2	28.5
171.swim	1	137	26.2	1	137	26.2
172.mgrid	1	124	16.8	1	124	16.8
173.applu	1	147	16.5	1	148	16.5
177.mesa	1	94.3	17.2	1	94.3	17.2
178.galgel	1	92.2	36.5	1	92.2	36.5
179.art	1	67.4	44.8	1	67.4	44.8
183.quake	1	68.9	21.9	1	68.9	21.9
187.facerec	1	109	20.3	1	109	20.3
188.amp	1	187	13.6	1	180	14.2
189.lucas	1	100	23.1	1	99.5	23.3
191.fma3d	1	150	16.2	1	150	16.2
200.sixtrack	1	180	7.09	1	177	7.20
301.apsi	1	208	14.5	1	208	14.5

#### Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3400  
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 /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.ammf: -Oa -QxP  
189.lucas: -fast -QxP  
191.fma3d: basepeak=yes  
200.sixtrack: -QxP -Qipo +FDO  
301.apsi: basepeak=yes