



# CFP2000 Result

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## IBM

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

SPECfp\_rate2000 = 30.7

SPECfp\_rate\_base2000 = 30.5

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	75.0	49.5	2	75.0	49.5
171.swim	2	272	26.4	2	272	26.4
172.mgrid	2	181	23.0	2	181	23.0
173.applu	2	216	22.6	2	209	23.3
177.mesa	2	94.6	34.3	2	94.6	34.3
178.galgel	2	106	63.6	2	106	63.6
179.art	2	91.0	66.3	2	91.0	66.3
183.quake	2	111	27.1	2	111	27.1
187.facerec	2	126	34.9	2	126	35.0
188.amp	2	192	26.6	2	184	27.7
189.lucas	2	182	25.5	2	181	25.6
191.fma3d	2	194	25.1	2	194	25.1
200.sixtrack	2	179	14.3	2	177	14.4
301.apsi	2	223	27.0	2	223	27.0

#### Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3400  
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 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