



# CFP2000 Result

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## IBM Corporation

IBM eServer BladeCenter HS20 (2.8 GHz Xeon, 1MB L2 Cache)

SPECfp\_rate2000 = 24.6

SPECfp\_rate\_base2000 = 24.0

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Dec-2005 | Hardware Avail: Feb-2006 | Software Avail: Dec-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	82.9	44.8	2	82.9	44.8
171.swim	2	322	22.4	2	308	23.4
172.mgrid	2	205	20.4	2	205	20.4
173.applu	2	247	19.7	2	231	21.1
177.mesa	2	114	28.5	2	114	28.6
178.galgel	2	186	36.2	2	186	36.2
179.art	2	181	33.3	2	181	33.3
183.quake	2	124	24.3	2	94.6	31.9
187.facerec	2	143	30.8	2	145	30.4
188.amp	2	291	17.6	2	291	17.6
189.lucas	2	209	22.2	2	208	22.3
191.fma3d	2	226	21.6	2	226	21.6
200.sixtrack	2	198	12.9	2	198	12.9
301.apsi	2	329	18.3	2	329	18.3

### Hardware

CPU: Intel Xeon 2.8 (800 MHz system bus)  
 CPU MHz: 2800  
 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: 1024(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4 x 1024 MB ECC PC2-3200 Single Rank  
 Disk Subsystem: 73GB SCSI 10K RPM  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
 Compiler: Intel C/C++ Compiler 9.0 (20051130Z) for 32-bit applications  
 Intel Fortran Compiler 9.0 (20051120Z) for 32-bit applications  
 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 -Qansi\_alias +FDO

### PEAK TUNING

168.wupwise: basepeak=yes  
 171.swim: -fast -f77rtl +FDO  
 172.mgrid: basepeak=yes  
 173.applu: -fast -Qscalar\_rep- -Qauto -f77rtl +FDO  
 177.mesa: -fast +FDO  
 178.galgel: basepeak=yes  
 179.art: basepeak=yes  
 183.quake: -fast -Oa -Qrcd +FDO shlw32M.lib  
 187.facerec: -fast -Qunroll1 -Qscalar\_rep- +FDO



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## Notes/Tuning Information (Continued)

188. ammp: basepeak=yes  
189. lucas: -fast  
191. fma3d: basepeak=yes  
200. sixtrack: -fast +FDO  
301. apsi: basepeak=yes