



# CFP2000 Result

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## IBM Corporation

IBM eServer BladeCenter HS20 (3.8 GHz Xeon, 2MB L2 Cache)

SPECfp2000 = 1930

SPECfp\_base2000 = 1897

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Sep-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	58.8	2722	58.8	2722	
171.swim	3100	131	2370	131	2369	
172.mgrid	1800	115	1559	115	1559	
173.applu	2100	133	1582	131	1605	
177.mesa	1400	84.9	1649	85.0	1647	
178.galgel	2900	77.2	3755	77.2	3755	
179.art	2600	60.3	4311	60.3	4311	
183.quake	1300	58.3	2231	46.2	2814	
187.facerec	1900	97.5	1948	97.5	1948	
188.amp	2200	171	1287	171	1287	
189.lucas	2000	96.1	2081	96.6	2070	
191.fma3d	2100	137	1528	137	1528	
200.sixtrack	1100	147	749	147	749	
301.apsi	2600	188	1383	188	1383	

### Hardware

CPU: Intel Xeon 3.8 (800 MHz system bus)  
CPU MHz: 3800  
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: 36GB SCSI 10K RPM  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
Compiler: Intel C/C++ Compiler 9.0 (20050624Z) for 32-bit applications  
Intel Fortran Compiler 9.0 (20050624Z) 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 /F3200000  
191.fma3d: srcalt=windowsdp

### 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



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: basepeak=yes
189.lucas: -fast
191.fma3d: basepeak=yes
200.sixtrack: -Qipo +FDO
301.apsi: basepeak=yes
```