



# CFP2000 Result

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## IBM Corporation

IBM BladeCenter HS21 (1.86 GHz Xeon E5320, 8MB L2 Cache)

SPECfp\_rate2000 = --

SPECfp\_rate\_base2000 = 77.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	171	86.8			
171.swim	8	694	41.4			
172.mgrid	8	426	39.2			
173.applu	8	463	42.1			
177.mesa	8	80.5	161			
178.galgel	8	109	247			
179.art	8	125	193			
183.quake	8	224	53.9			
187.facerec	8	181	97.3			
188.amp	8	222	92.0			
189.lucas	8	403	46.0			
191.fma3d	8	375	51.9			
200.sixtrack	8	155	66.0			
301.apsi	8	293	82.5			

### Hardware

CPU: Intel Xeon processor E5320 ( 1.86 GHz, 1066 MHz bus)  
CPU MHz: 1866  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1, 2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip (per core)  
Secondary Cache: 8MB(I+D) on chip, per chip (4MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 1024 MB ECC PC2-5300F  
Disk Subsystem: 73GB SAS 10K RPM  
Other Hardware: Memory and I/O Expansion Unit (P/N 42C1600)

### Software

Operating System: Windows Server 2003 Enterprise Edition (32-bit)  
Compiler: Intel C++ and Fortran Compiler 9.1 for 32-bit applications  
Build 20060323Z  
Microsoft Visual Studio 2005(for libraries)  
SmartHeap Library Version 8.0 from <http://www.microquill.com/>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for C programs: -fast +FDO shlW32M.lib
Portability:
178.galgel: -FI /F32000000
```