



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries 226 (2.8 GHz Xeon, 2MB L2 Cache)

SPECfp\_rate2000 = 29.6

SPECfp\_rate\_base2000 = 28.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	79.7	46.6	2	79.7	46.6
171.swim	2	267	27.0	2	266	27.0
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	217	22.4	2	211	23.1
177.mesa	2	114	28.4	2	114	28.5
178.galgel	2	111	60.8	2	111	60.8
179.art	2	92.7	65.1	2	92.7	65.1
183.quake	2	107	28.3	2	79.2	38.1
187.facerec	2	132	33.4	2	132	33.3
188.amp	2	217	23.6	2	217	23.6
189.lucas	2	177	26.2	2	177	26.2
191.fma3d	2	212	22.9	2	212	22.9
200.sixtrack	2	199	12.9	2	199	12.8
301.apsi	2	262	23.0	2	262	23.0

### Hardware

CPU: Intel Xeon 2.8 GHz (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  
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 Single Rank  
Disk Subsystem: 73GB SCSI 15K 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 /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: -Qipo +FDO  
301. apsi: basepeak=yes