



# CFP2000 Result

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IBM Corporation  
IBM eServer xSeries 226 (3.4 GHz Intel Xeon)

SPECfp2000 = 1742  
SPECfp\_base2000 = 1716

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: May-2005 | Hardware Avail: Feb-2005 | Software Avail: Apr-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	64.2	2491	64.2	2491	[Bar chart showing ratio 2491]			
171.swim	3100	137	2267	137	2268	[Bar chart showing ratio 2268]			
172.mgrid	1800	124	1456	124	1456	[Bar chart showing ratio 1456]			
173.applu	2100	147	1429	148	1422	[Bar chart showing ratio 1422]			
177.mesa	1400	94.1	1487	94.1	1487	[Bar chart showing ratio 1487]			
178.galgel	2900	86.4	3357	86.4	3357	[Bar chart showing ratio 3357]			
179.art	2600	66.9	3889	66.9	3889	[Bar chart showing ratio 3889]			
183.quake	1300	69.1	1880	57.1	2275	[Bar chart showing ratio 2275]			
187.facerec	1900	108	1758	108	1758	[Bar chart showing ratio 1758]			
188.amp	2200	185	1187	185	1187	[Bar chart showing ratio 1187]			
189.lucas	2000	99.8	2003	98.9	2023	[Bar chart showing ratio 2023]			
191.fma3d	2100	150	1403	150	1403	[Bar chart showing ratio 1403]			
200.sixtrack	1100	179	614	177	622	[Bar chart showing ratio 622]			
301.apsi	2600	209	1247	208	1248	[Bar chart showing ratio 1248]			

### Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3400  
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: 73GB SCSI 10K RPM  
Other Hardware:

### Software

Operating System: Windows Server 2003 Standard Edition  
Compiler: Intel C/C++ Compiler 8.1 (20050409)  
Intel Fortran Compiler 8.1 (20050405Z)  
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 -QxP -Qansi\_alias +FDO

### PEAK TUNING

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



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## Notes/Tuning Information (Continued)

188. ammp: basepeak=yes  
189. lucas: -fast -QxP  
191. fma3d: basepeak=yes  
200. sixtrack: -QxP -Qipo +FDO  
301. apsi: -fast -QxP -f77rtl +FDO