



# CFP2000 Result

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

SPECfp\_rate2000 = 31.3  
SPECfp\_rate\_base2000 = 30.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	73.9	50.3	2	73.9	50.3
171.swim	2	271	26.5	2	271	26.5
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	216	22.5	2	210	23.2
177.mesa	2	94.4	34.4	2	94.4	34.4
178.galgel	2	98.8	68.1	2	98.8	68.1
179.art	2	91.0	66.3	2	91.0	66.3
183.quake	2	111	27.2	2	82.9	36.4
187.facerec	2	126	35.0	2	126	35.0
188.amp	2	191	26.7	2	191	26.7
189.lucas	2	181	25.7	2	181	25.7
191.fma3d	2	201	24.2	2	201	24.2
200.sixtrack	2	180	14.2	2	177	14.4
301.apsi	2	239	25.2	2	239	25.2

### Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
 CPU MHz: 3400  
 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 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 /F3200000

### 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