



# CFP2000 Result

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IBM Corporation  
IBM eServer xSeries 236 (3.2 GHz Intel Xeon)

SPECfp\_rate2000 = 19.4  
SPECfp\_rate\_base2000 = 19.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	66.8	27.8	1	66.8	27.8
171.swim	1	138	26.1	1	138	26.1
172.mgrid	1	129	16.2	1	129	16.2
173.applu	1	153	15.9	1	154	15.8
177.mesa	1	99.7	16.3	1	99.7	16.3
178.galgel	1	90.8	37.0	1	90.8	37.0
179.art	1	69.0	43.7	1	69.0	43.7
183.quake	1	71.2	21.2	1	59.6	25.3
187.facerec	1	112	19.6	1	112	19.6
188.amp	1	194	13.2	1	194	13.2
189.lucas	1	102	22.7	1	101	23.0
191.fma3d	1	156	15.7	1	156	15.7
200.sixtrack	1	190	6.71	1	188	6.80
301.apsi	1	219	13.8	1	219	13.8

### Hardware

CPU: Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3200  
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: 8 x 512 MB ECC PC2-3200 Single 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) for 32-bit applications  
Intel Fortran Compiler 8.1 (20050405Z) 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 -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 -Oa -Qrcd +FDO shlW32M.lib



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## Notes/Tuning Information (Continued)

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