



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries 336 (3.8 GHz Xeon, 2MB L2 Cache)

SPECfp\_rate2000 = 22.4

SPECfp\_rate\_base2000 = 22.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	58.8	31.5	1	58.8	31.5
171.swim	1	132	27.2	1	132	27.3
172.mgrid	1	115	18.1	1	115	18.1
173.applu	1	133	18.3	1	131	18.6
177.mesa	1	84.6	19.2	1	84.6	19.2
178.galgel	1	77.0	43.7	1	77.0	43.7
179.art	1	60.3	50.0	1	60.3	50.0
183.quake	1	58.9	25.6	1	46.0	32.8
187.facerec	1	97.6	22.6	1	97.6	22.6
188.amp	1	169	15.1	1	169	15.1
189.lucas	1	96.2	24.1	1	96.1	24.1
191.fma3d	1	138	17.7	1	138	17.7
200.sixtrack	1	146	8.72	1	146	8.73
301.apsi	1	188	16.0	1	188	16.0

### Hardware

CPU: Intel Xeon 3.8 GHz (800 MHz system bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 8 x 512 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 /F3200000  
191.fma3d: srcalt=windowsdp

### 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



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: basepeak=yes
189.lucas: -fast
191.fma3d: basepeak=yes
200.sixtrack: -Qipo +FDO
301.apsi: basepeak=yes
```