



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries 306m (3.4 GHz Pentium 4 650, 2MB L2 Cache)

SPECfp\_rate2000 = 22.6

SPECfp\_rate\_base2000 = 22.3

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	58.7	31.6	1	58.7	31.6
171.swim	1	115	31.3	1	115	31.4
172.mgrid	1	117	17.9	1	117	17.9
173.applu	1	130	18.7	1	128	19.0
177.mesa	1	93.8	17.3	1	93.8	17.3
178.galgel	1	81.1	41.5	1	81.1	41.5
179.art	1	55.0	54.8	1	55.0	54.8
183.quake	1	53.8	28.0	1	44.6	33.8
187.facerec	1	93.0	23.7	1	93.0	23.7
188.amp	1	170	15.0	1	170	15.0
189.lucas	1	87.4	26.5	1	86.6	26.8
191.fma3d	1	136	17.9	1	136	17.9
200.sixtrack	1	163	7.83	1	163	7.83
301.apsi	1	196	15.4	1	196	15.4

### Hardware

CPU: Intel Pentium 4 650 (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  
 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 1024 MB ECC PC2-3200 Single Rank  
 Disk Subsystem: 75GB SATA 7.2K 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