



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries x206m (2.8GHz Pentium D 820, 1MB L2 Cache)

SPECfp\_rate2000 = 29.8

SPECfp\_rate\_base2000 = 29.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	74.7	49.7	2	74.7	49.7
171.swim	2	220	32.8	2	220	32.7
172.mgrid	2	159	26.3	2	159	26.3
173.applu	2	182	26.8	2	178	27.4
177.mesa	2	113	28.9	2	113	28.9
178.galgel	2	152	44.2	2	152	44.2
179.art	2	140	43.1	2	140	43.1
183.quake	2	95.5	31.6	2	75.7	39.8
187.facerec	2	125	35.4	2	125	35.4
188.amp	2	261	19.6	2	261	19.6
189.lucas	2	147	31.5	2	148	31.3
191.fma3d	2	186	26.3	2	186	26.3
200.sixtrack	2	198	12.9	2	198	12.9
301.apsi	2	261	23.1	2	261	23.1

### Hardware

CPU: Intel Pentium D 820 (800 MHz system bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core  
Secondary Cache: 1024KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 1024 MB ECC PC2-3200 Single Rank  
Disk Subsystem: 73GB SAS 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