



# CFP2000 Result

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## IBM Corporation

IBM eServer xSeries x206m (3.2GHz Pentium 4 640, 2MB L2 Cache)

SPECfp2000 = 1868

SPECfp\_base2000 = 1841

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

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 61.2         | 2614       | 61.2    | 2614  |  |
| 171.swim     | 3100           | 116          | 2672       | 116     | 2672  |  |
| 172.mgrid    | 1800           | 123          | 1467       | 123     | 1467  |  |
| 173.applu    | 2100           | 136          | 1547       | 134     | 1571  |  |
| 177.mesa     | 1400           | 99.6         | 1406       | 99.5    | 1407  |  |
| 178.galgel   | 2900           | 85.5         | 3390       | 85.5    | 3390  |  |
| 179.art      | 2600           | 56.5         | 4606       | 56.5    | 4606  |  |
| 183.quake    | 1300           | 55.4         | 2346       | 46.4    | 2800  |  |
| 187.facerec  | 1900           | 97.3         | 1952       | 97.3    | 1952  |  |
| 188.amp      | 2200           | 178          | 1233       | 178     | 1233  |  |
| 189.lucas    | 2000           | 90.7         | 2205       | 89.4    | 2237  |  |
| 191.fma3d    | 2100           | 142          | 1479       | 142     | 1479  |  |
| 200.sixtrack | 1100           | 173          | 636        | 173     | 636   |  |
| 301.apsi     | 2600           | 206          | 1260       | 206     | 1260  |  |

### Hardware

CPU: Intel Pentium 4 640 (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  
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: 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 /F32000000

### 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  
187.facerec: -fast -Qunroll1 -Qscalar\_rep- +FDO



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## Notes/Tuning Information (Continued)

188. ammp: basepeak=yes  
189. lucas: -fast  
191. fma3d: basepeak=yes  
200. sixtrack: -Qipo +FDO  
301. apsi: basepeak=yes