# CFP2000 Result

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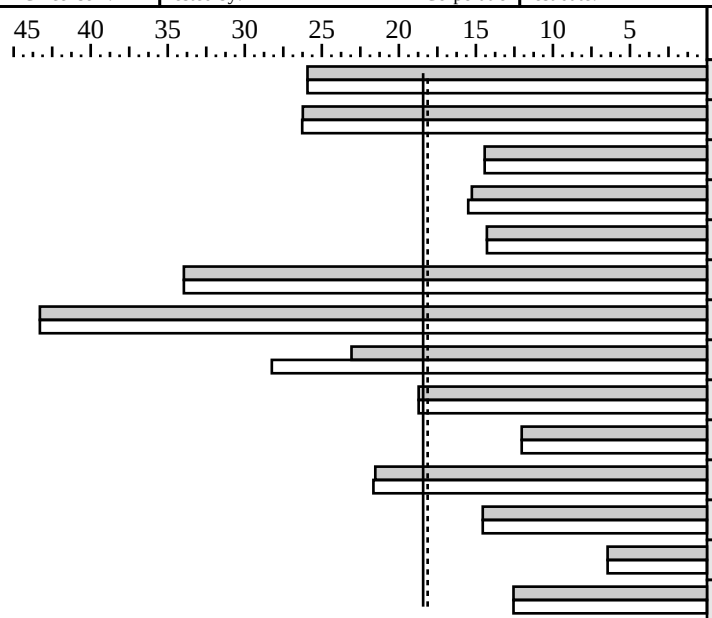
## IBM Corporation

IBM eServer xSeries 236 (2.8 GHz Xeon, 2MB L2 Cache)

SPECfp_rate2000 = 18.4

SPECfp_rate_base2000 = 18.1

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 1 | 71.6 | 25.9 | 1 | 71.6 | 25.9 |
| 171.swim | 1 | 137 | 26.2 | 1 | 137 | 26.3 |
| 172.mgrid | 1 | 145 | 14.4 | 1 | 145 | 14.4 |
| 173.applu | 1 | 160 | 15.3 | 1 | 157 | 15.5 |
| 177.mesa | 1 | 114 | 14.3 | 1 | 114 | 14.3 |
| 178.galgel | 1 | 99.1 | 34.0 | 1 | 99.1 | 34.0 |
| 179.art | 1 | 69.7 | 43.3 | 1 | 69.7 | 43.3 |
| 183.equake | 1 | 65.4 | 23.1 | 1 | 53.4 | 28.2 |
| 187.facerec | 1 | 118 | 18.7 | 1 | 118 | 18.7 |
| 188.ammp | 1 | 212 | 12.0 | 1 | 212 | 12.0 |
| 189.lucas | 1 | 108 | 21.5 | 1 | 107 | 21.7 |
| 191.fma3d | 1 | 167 | 14.6 | 1 | 167 | 14.6 |
| 200.sixtrack | 1 | 198 | 6.45 | 1 | 198 | 6.45 |
| 301.apsi | 1 | 240 | 12.6 | 1 | 240 | 12.6 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon 2.8 (800 MHz system bus) |
| CPU MHz: | 2800 |
| 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 2048 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 9.0 (20050624Z) for 32-bit applications<br>Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications<br>Microsoft Visual Studio .NET 13.0.9466 (for libraries)<br>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
  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.equake:   -fast -Oa -Qrcd +FDO shlw32M.lib
```

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## Notes/Tuning Information (Continued)

```
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     basepeak=yes
189.lucas:    -fast
191.fma3d:    basepeak=yes
200.sixtrack: -Qipo +FDO
301.apsi:     basepeak=yes
```