# CFP2000 Result

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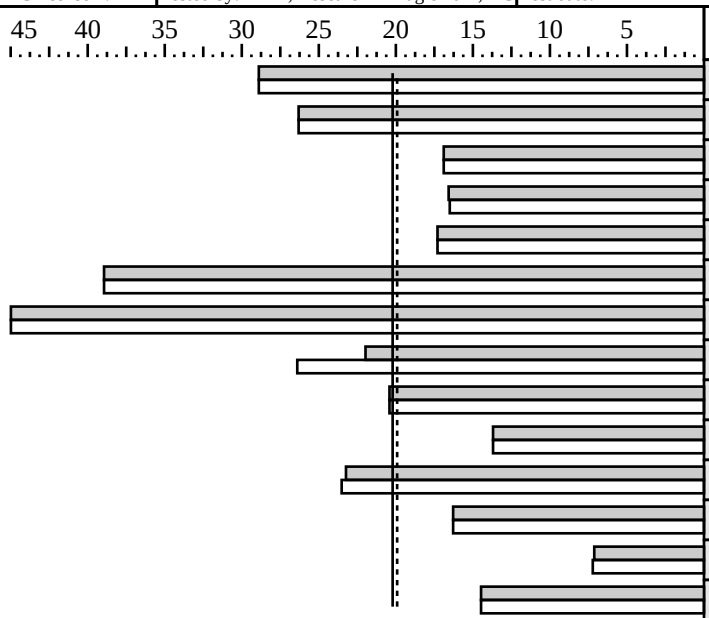
## IBM

IBM eServer xSeries 346 (3.4 GHz Intel Xeon)

SPECfp_rate2000 = 20.2

SPECfp_rate_base2000 = 19.9

SPEC license #: 11 | Tested by: IBM, Research Trinagle Park, NC | Test date: May-2005 | Hardware Avail: Feb-2005 | Software Avail: Apr-2005




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 1 | 64.2 | 28.9 | 1 | 64.2 | 28.9 |
| 171.swim | 1 | 137 | 26.3 | 1 | 137 | 26.3 |
| 172.mgrid | 1 | 124 | 16.9 | 1 | 124 | 16.9 |
| 173.applu | 1 | 147 | 16.6 | 1 | 148 | 16.5 |
| 177.mesa | 1 | 93.9 | 17.3 | 1 | 93.9 | 17.3 |
| 178.galgel | 1 | 86.4 | 38.9 | 1 | 86.4 | 38.9 |
| 179.art | 1 | 67.0 | 45.0 | 1 | 67.0 | 45.0 |
| 183.equake | 1 | 68.6 | 22.0 | 1 | 57.1 | 26.4 |
| 187.facerec | 1 | 108 | 20.4 | 1 | 108 | 20.4 |
| 188.ammp | 1 | 186 | 13.7 | 1 | 186 | 13.7 |
| 189.lucas | 1 | 99.8 | 23.2 | 1 | 98.7 | 23.5 |
| 191.fma3d | 1 | 150 | 16.3 | 1 | 150 | 16.3 |
| 200.sixtrack | 1 | 179 | 7.12 | 1 | 177 | 7.22 |
| 301.apsi | 1 | 208 | 14.5 | 1 | 208 | 14.5 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 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: | 1,2 |
| 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 10K RPM |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Standard Edition |
| Compiler: | Intel C/C++ Compiler 8.1 (20050409)<br>Intel Fortran Compiler 8.1 (20050405Z)<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
BASE TUNING
  C/F77/F90:    -fast -QxP -Qansi_alias     +FDO
PEAK TUNING
  168.wupwise:  basepeak=yes
  171.swim:     -fast -QxP -f77rtl +FDO
  172.mgrid:    basepeak=yes
  173.applu:    -fast -QxP -Qscalar_rep- -Qauto -f77rtl +FDO
  177.mesa:     basepeak=yes
  178.galgel:   basepeak=yes
  179.art:      basepeak=yes
  183.equake:   -fast -QxP -Qansi_alias -Oa -Qrcd +FDO shlW32M.lib
  187.facerec:  basepeak=yes
```

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## Notes/Tuning Information (Continued)

```
188.ammp:     basepeak=yes
189.lucas:    -fast -QxP
191.fma3d:    basepeak=yes
200.sixtrack: -QxP -Qipo +FDO
301.apsi:     -fast -QxP -f77rtl +FDO
```