# CFP2000 Result

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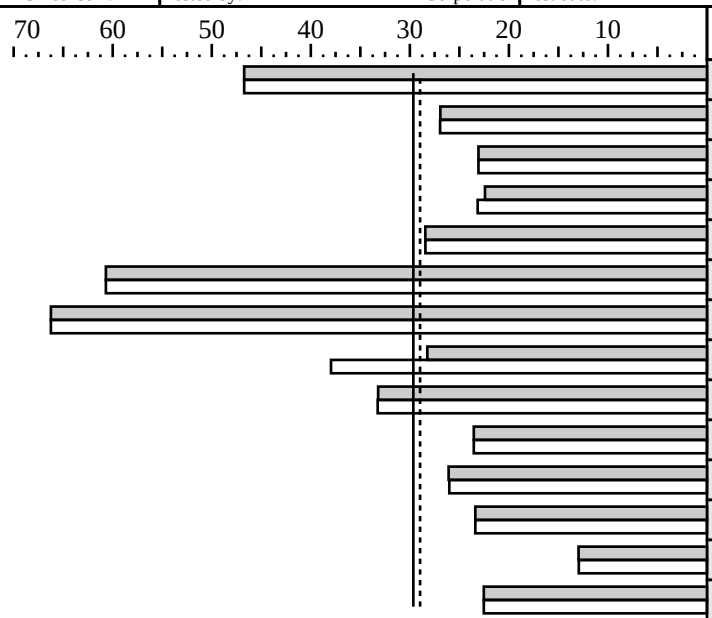
## IBM Corporation

IBM eServer Bladecenter HS20 (2.8 GHz Xeon, 2MB L2 Cache)

SPECfp_rate2000 = 29.6

SPECfp_rate_base2000 = 29.0

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 | 79.4 | 46.7 | 2 | 79.4 | 46.7 |
| 171.swim | 2 | 267 | 26.9 | 2 | 267 | 26.9 |
| 172.mgrid | 2 | 181 | 23.1 | 2 | 181 | 23.1 |
| 173.applu | 2 | 217 | 22.4 | 2 | 210 | 23.2 |
| 177.mesa | 2 | 114 | 28.4 | 2 | 114 | 28.4 |
| 178.galgel | 2 | 111 | 60.7 | 2 | 111 | 60.7 |
| 179.art | 2 | 91.1 | 66.2 | 2 | 91.1 | 66.2 |
| 183.equake | 2 | 107 | 28.2 | 2 | 79.5 | 38.0 |
| 187.facerec | 2 | 133 | 33.2 | 2 | 133 | 33.2 |
| 188.ammp | 2 | 217 | 23.5 | 2 | 217 | 23.5 |
| 189.lucas | 2 | 178 | 26.1 | 2 | 178 | 26.0 |
| 191.fma3d | 2 | 208 | 23.4 | 2 | 208 | 23.4 |
| 200.sixtrack | 2 | 197 | 13.0 | 2 | 197 | 12.9 |
| 301.apsi | 2 | 268 | 22.5 | 2 | 268 | 22.5 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon 2.8 (800 MHz system bus) |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 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: | 4 x 2048 MB ECC PC2-3200 Dual Rank |
| Disk Subsystem: | 36GB 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
```