# CFP2000 Result

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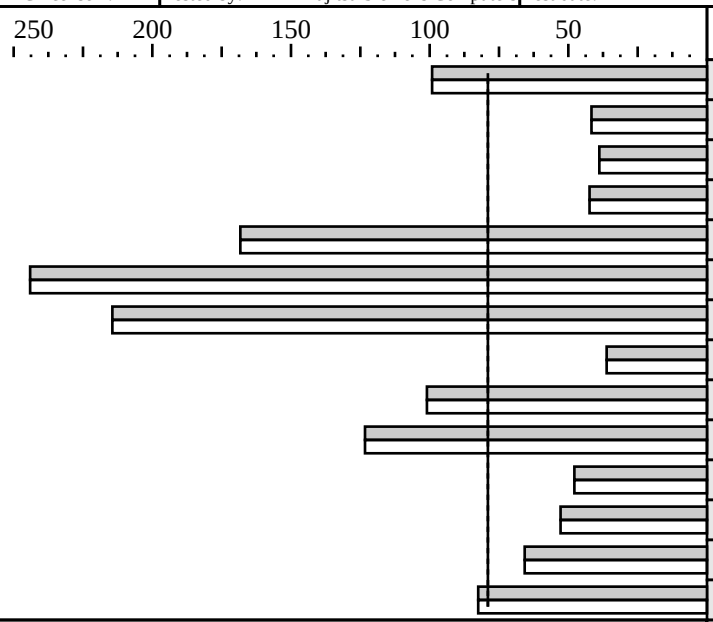
## Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor E5320, 1.86 GHz

SPECfp_rate2000 = 79.0

SPECfp_rate_base2000 = 79.0

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Oct-2006 | Hardware Avail: Nov-2006 | Software Avail: Aug-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 8 | 150 | 99.1 | 8 | 150 | 99.1 |
| 171.swim | 8 | 691 | 41.7 | 8 | 691 | 41.7 |
| 172.mgrid | 8 | 430 | 38.8 | 8 | 430 | 38.8 |
| 173.applu | 8 | 460 | 42.4 | 8 | 460 | 42.4 |
| 177.mesa | 8 | 77.2 | 168 | 8 | 77.2 | 168 |
| 178.galgel | 8 | 110 | 244 | 8 | 110 | 244 |
| 179.art | 8 | 113 | 214 | 8 | 113 | 214 |
| 183.equake | 8 | 333 | 36.2 | 8 | 333 | 36.2 |
| 187.facerec | 8 | 175 | 101 | 8 | 175 | 101 |
| 188.ammp | 8 | 166 | 123 | 8 | 166 | 123 |
| 189.lucas | 8 | 388 | 47.8 | 8 | 388 | 47.8 |
| 191.fma3d | 8 | 369 | 52.8 | 8 | 369 | 52.8 |
| 200.sixtrack | 8 | 155 | 65.7 | 8 | 155 | 65.7 |
| 301.apsi | 8 | 292 | 82.5 | 8 | 292 | 82.5 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon processor E5320 (1.86 GHz, 2x4MB L2, 1066 MHz system bus) |
| CPU MHz: | 1866 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 4 cores/chip |
| CPU(s) orderable: | 1,2 chips |
| Parallel: | No |
| Primary Cache: | 32KB(I) + 32KB(D) on chip, per core |
| Secondary Cache: | 8MB(I+D) on chip, per chip (4MB shared per 2 cores) |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8x1GB DDR2-RAM PC2-4200F (CAS 4-4-4) |
| Disk Subsystem: | Seagate ST336754SS (SAS, 15.4krpm, 36GB) |
| Other Hardware: | none |

### Software

| | |
|---|---|
| Operating System: | 64-Bit SUSE LINUX Enterprise Server 10<br>Kernel 2.6.16.21-0.8-smp on an x86_64 |
| Compiler: | Intel C++ and Fortran Compiler 9.1 for EM64T<br>Build 20060816 (for 64-bit applications) |
| File System: | ext2 |
| System State: | Multi-user runlevel 3 |

## Notes/Tuning Information

```
GENERAL
+FDO implies feedback-directed optimization
PASS1: -prof_gen  PASS2: -prof_use

Optimization flags
ONESTEP=yes set for all benchmarks

Portability flags
-DSPEC_CPU2000_LP64 applied to all benchmarks
178.galgel: -FI for fixed-format Fortran

Base tuning flags
   for Fortran and C programs: -fast +FDO

Peak tuning flags
   same as baseline (basepeak=true set globally)
```

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## Notes/Tuning Information (Continued)

The system bus runs at 1066 MHz

This result was measured with 64-bit binaries using the 64-bit version of the operating system.

BIOS Configuration:
Hardware Prefetch = disable, Adjacent Sector Prefetch = disable

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY TX300 S3 and the PRIMERGY RX300 S3 are electronically equivalent.

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