# CFP2000 Result

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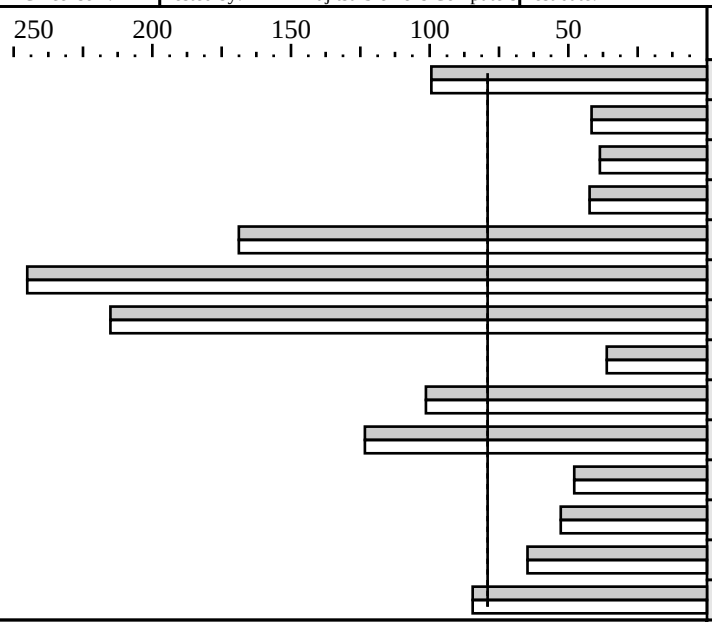
## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor E5320, 1.86 GHz

SPECfp_rate2000 = 79.1

SPECfp_rate_base2000 = 79.1

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 8 | 149 | 99.4 | 8 | 149 | 99.4 |
| 171.swim | 8 | 691 | 41.6 | 8 | 691 | 41.6 |
| 172.mgrid | 8 | 432 | 38.6 | 8 | 432 | 38.6 |
| 173.applu | 8 | 460 | 42.3 | 8 | 460 | 42.3 |
| 177.mesa | 8 | 77.0 | 169 | 8 | 77.0 | 169 |
| 178.galgel | 8 | 110 | 245 | 8 | 110 | 245 |
| 179.art | 8 | 112 | 215 | 8 | 112 | 215 |
| 183.equake | 8 | 334 | 36.1 | 8 | 334 | 36.1 |
| 187.facerec | 8 | 174 | 101 | 8 | 174 | 101 |
| 188.ammp | 8 | 166 | 123 | 8 | 166 | 123 |
| 189.lucas | 8 | 388 | 47.9 | 8 | 388 | 47.9 |
| 191.fma3d | 8 | 370 | 52.7 | 8 | 370 | 52.7 |
| 200.sixtrack | 8 | 158 | 64.7 | 8 | 158 | 64.7 |
| 301.apsi | 8 | 286 | 84.5 | 8 | 286 | 84.5 |

### 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 PC2-5300F (CAS 5-5-5) |
| Disk Subsystem: | Seagate ST373454SS (SAS, 15.4krpm, 73GB) |
| 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: | reiserfs |
| System State: | Multi-user run level 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

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