# CFP2000 Result

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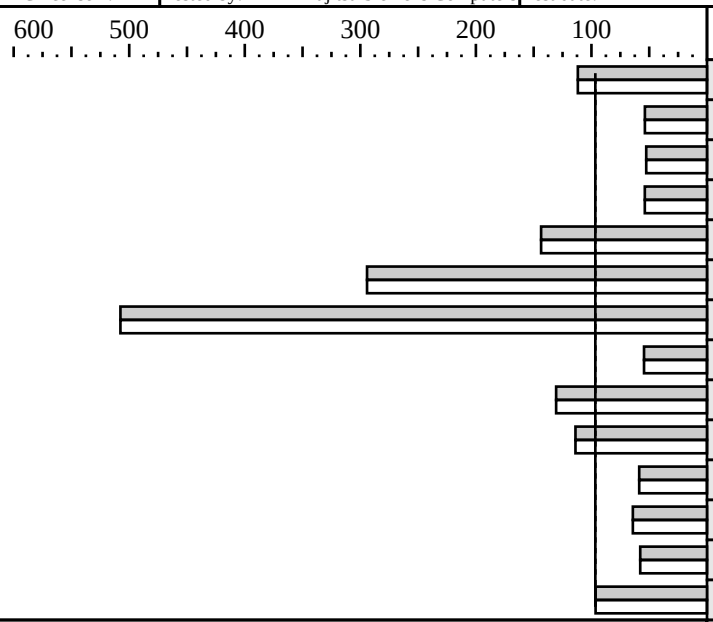
## Fujitsu Siemens Computers

PRIMERGY TX600 S3, Intel Xeon processor 7130M, 3.20 GHz

SPECfp_rate2000 = 96.6

SPECfp_rate_base2000 = 96.6

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 8 | 133 | 112 | 8 | 133 | 112 |
| 171.swim | 8 | 535 | 53.7 | 8 | 535 | 53.7 |
| 172.mgrid | 8 | 318 | 52.6 | 8 | 318 | 52.6 |
| 173.applu | 8 | 362 | 53.8 | 8 | 362 | 53.8 |
| 177.mesa | 8 | 90.5 | 144 | 8 | 90.5 | 144 |
| 178.galgel | 8 | 91.5 | 294 | 8 | 91.5 | 294 |
| 179.art | 8 | 47.5 | 508 | 8 | 47.5 | 508 |
| 183.equake | 8 | 221 | 54.5 | 8 | 221 | 54.5 |
| 187.facerec | 8 | 135 | 131 | 8 | 135 | 131 |
| 188.ammp | 8 | 179 | 114 | 8 | 179 | 114 |
| 189.lucas | 8 | 316 | 58.7 | 8 | 316 | 58.7 |
| 191.fma3d | 8 | 304 | 64.2 | 8 | 304 | 64.2 |
| 200.sixtrack | 8 | 177 | 57.8 | 8 | 177 | 57.8 |
| 301.apsi | 8 | 250 | 96.4 | 8 | 250 | 96.4 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon processor 7130M (3.20 GHz, 2x1MB L2, 8MB L3, 800 MHz system bus) |
| CPU MHz: | 3200 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology disabled) |
| CPU(s) orderable: | 1,2,4 chips |
| Parallel: | No |
| Primary Cache: | 12k micro-ops(I) + 16KB(D) on chip, per core |
| Secondary Cache: | 1024KB(I+D) on chip, per core |
| L3 Cache: | 8MB on chip, per chip |
| Other Cache: | N/A |
| Memory: | 16x1GB DDRII-RAM PC2-3200R (CAS 3-3-3) |
| Disk Subsystem: | Fujitsu MAS3367NC (SCSI, 15krpm, 36GB) |
| Other Hardware: | none |

### Software

| | |
|---|---|
| Operating System: | 64-Bit SUSE LINUX Enterprise Server 9 with SP3 Kernel 2.6.5-7.244-smp on an x86_64 |
| Compiler: | Intel C++ and Fortran Compiler 9.0 for EM64T Build 20060120 (for 64-bit applications) |
| File System: | ext3 |
| 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 800 MHz

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

BIOS Configuration:
Adjacent Sector Prefetch = Disable

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