



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon 5110 processor, 1.60 GHz

SPECfp\_rate2000 = 55.6

SPECfp\_rate\_base2000 = 55.6

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

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 4           | 93.6         | 79.3       | 4      | 93.6    | 79.3  |
| 171.swim     | 4           | 342          | 42.1       | 4      | 342     | 42.1  |
| 172.mgrid    | 4           | 220          | 37.9       | 4      | 220     | 37.9  |
| 173.applu    | 4           | 241          | 40.5       | 4      | 241     | 40.5  |
| 177.mesa     | 4           | 86.3         | 75.3       | 4      | 86.3    | 75.3  |
| 178.galgel   | 4           | 97.2         | 138        | 4      | 97.2    | 138   |
| 179.art      | 4           | 75.8         | 159        | 4      | 75.8    | 159   |
| 183.quake    | 4           | 149          | 40.4       | 4      | 149     | 40.4  |
| 187.facerec  | 4           | 124          | 70.8       | 4      | 124     | 70.8  |
| 188.amp      | 4           | 200          | 51.0       | 4      | 200     | 51.0  |
| 189.lucas    | 4           | 218          | 42.5       | 4      | 218     | 42.5  |
| 191.fma3d    | 4           | 239          | 40.8       | 4      | 239     | 40.8  |
| 200.sixtrack | 4           | 184          | 27.8       | 4      | 184     | 27.8  |
| 301.apsi     | 4           | 266          | 45.3       | 4      | 266     | 45.3  |

### Hardware

CPU: Intel Xeon 5110 processor (1.60 GHz, 4MB L2, 1066 MHz system bus)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 32KBI + 32KBD on chip, per core  
Secondary Cache: 4096KB(I+D) on chip, shared  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x1GB DDRII-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 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 1066 MHz

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

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