



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY TX600 S3, Intel Xeon processor 7110M, 2.60 GHz

SPECfp\_rate2000 = 77.4

SPECfp\_rate\_base2000 = 77.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	139	107	8	139	107
171.swim	8	548	52.5	8	548	52.5
172.mgrid	8	337	49.5	8	337	49.5
173.applu	8	394	49.5	8	394	49.5
177.mesa	8	110	118	8	110	118
178.galgel	8	151	178	8	151	178
179.art	8	119	202	8	119	202
183.quake	8	238	50.6	8	238	50.6
187.facerec	8	187	94.3	8	187	94.3
188.amp	8	253	80.7	8	253	80.7
189.lucas	8	327	56.8	8	327	56.8
191.fma3d	8	323	60.4	8	323	60.4
200.sixtrack	8	225	45.5	8	225	45.5
301.apsi	8	307	78.7	8	307	78.7

### Hardware

CPU: Intel Xeon processor 7110M (2.60 GHz, 2x1MB L2, 4MB L3, 800 MHz system bus)  
CPU MHz: 2600  
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: 4MB 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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