



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX300 S3, Intel Xeon processor E5310, 1.60 GHz

SPECfp\_rate2000 = 75.4

SPECfp\_rate\_base2000 = 75.4

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	
250	200	150	100	50	168.wupwise	8	151	98.5	8	151	98.5
					171.swim	8	690	41.7	8	690	41.7
					172.mgrid	8	429	39.0	8	429	39.0
					173.applu	8	462	42.2	8	462	42.2
					177.mesa	8	87.3	149	8	87.3	149
					178.galgel	8	120	225	8	120	225
					179.art	8	117	207	8	117	207
					183.quake	8	332	36.3	8	332	36.3
					187.facerec	8	181	97.4	8	181	97.4
					188.amp	8	189	108	8	189	108
					189.lucas	8	390	47.6	8	390	47.6
					191.fma3d	8	375	52.0	8	375	52.0
					200.sixtrack	8	181	56.4	8	181	56.4
					301.apsi	8	312	77.3	8	312	77.3

### Hardware

CPU: Intel Xeon processor E5310 (1.60 GHz, 2x4MB L2, 1066 MHz system bus)  
 CPU MHz: 1600  
 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  
 Kernel 2.6.16.21-0.8-smp on an x86\_64  
 Compiler: Intel C++ and Fortran Compiler 9.1 for EM64T  
 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:

Adjacent Sector Prefetch = disable, Hardware Prefetch = disable

The PRIMERGY RX300 S3 and the PRIMERGY TX300 S3 are electronically equivalent.

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