



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY BX620 S3, Intel Xeon processor E5310, 1.60 GHz

SPECfp\_rate2000 = 44.9

SPECfp\_rate\_base2000 = 44.9

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
150	120	90	60	30	168.wupwise	4	124	60.1	4	124	60.1
					171.swim	4	527	27.3	4	527	27.3
					172.mgrid	4	330	25.3	4	330	25.3
					173.applu	4	361	27.0	4	361	27.0
					177.mesa	4	86.7	74.9	4	86.7	74.9
					178.galgel	4	111	121	4	111	121
					179.art	4	92.1	131	4	92.1	131
					183.equake	4	232	26.0	4	232	26.0
					187.facerec	4	145	60.9	4	145	60.9
					188.amp	4	198	51.5	4	198	51.5
					189.lucas	4	311	29.9	4	311	29.9
					191.fma3d	4	286	34.1	4	286	34.1
					200.sixtrack	4	183	27.8	4	183	27.8
					301.apsi	4	276	43.7	4	276	43.7

### Hardware

CPU: Intel Xeon processor E5310 (1.60 GHz, 2x4MB L2, 1066 MHz system bus)  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 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 ST936701SS (SAS, 10 krpm, 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: 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:

Adjacent Sector Prefetch = Disable

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