



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX100 S4, Intel Pentium D processor 945, 3.40 GHz

SPECfp\_rate2000 = 39.2

SPECfp\_rate\_base2000 = 39.2

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

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
150	120	90	60	30	168.wupwise	2	58.4	63.5	2	58.4	63.5
					171.swim	2	218	33.0	2	218	33.0
					172.mgrid	2	137	30.4	2	137	30.4
					173.applu	2	165	29.4	2	165	29.4
					177.mesa	2	77.7	41.8	2	77.7	41.8
					178.galgel	2	87.9	76.6	2	87.9	76.6
					179.art	2	48.8	124	2	48.8	124
					183.quake	2	80.1	37.6	2	80.1	37.6
					187.facerec	2	99.7	44.2	2	99.7	44.2
					188.amp	2	159	32.0	2	159	32.0
					189.lucas	2	143	32.5	2	143	32.5
					191.fma3d	2	153	31.9	2	153	31.9
					200.sixtrack	2	161	15.9	2	161	15.9
					301.apsi	2	192	31.5	2	192	31.5

### Hardware

CPU: Intel Pentium D processor 945 (3.40 GHz, 2x2MB L2, 800 MHz system bus)  
 CPU MHz: 3400  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Parallel: No  
 Primary Cache: 12k micro-ops(I) + 16KB(D) on chip, per core  
 Secondary Cache: 2048KB(I+D) on chip, per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x2GB DDRII-RAM PC2-4200E (CAS 4-4-4)  
 Disk Subsystem: Seagate ST3146854SS (SAS, 15.4krpm, 146GB)  
 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 9.0 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.

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