



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY Econel100, Intel Pentium D processor 945, 3.40 GHz

SPECfp\_rate2000 = 39.4

SPECfp\_rate\_base2000 = 39.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	58.6	63.3	2	58.6	63.3
171.swim	2	212	33.8	2	212	33.8
172.mgrid	2	133	31.3	2	133	31.3
173.applu	2	163	30.0	2	163	30.0
177.mesa	2	78.4	41.4	2	78.4	41.4
178.galgel	2	88.6	75.9	2	88.6	75.9
179.art	2	50.7	119	2	50.7	119
183.quake	2	79.4	38.0	2	79.4	38.0
187.facerec	2	98.5	44.8	2	98.5	44.8
188.amp	2	163	31.3	2	163	31.3
189.lucas	2	140	33.3	2	140	33.3
191.fma3d	2	150	32.5	2	150	32.5
200.sixtrack	2	162	15.7	2	162	15.7
301.apsi	2	191	31.6	2	191	31.6

### 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  
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: 4x2048 MB DDRII-RAM PC2-4200E (CAS 4-4-4)  
Disk Subsystem: Samsung SP2504C (SATA, 7.2krpm, 250GB)  
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.

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