



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX100 S4, Intel Xeon processor 3040, 1.86 GHz

SPECfp\_rate2000 = 35.9

SPECfp\_rate\_base2000 = 35.9

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	63.4	58.5	2	63.4	58.5
171.swim	2	229	31.4	2	229	31.4
172.mgrid	2	164	25.5	2	164	25.5
173.applu	2	176	27.8	2	176	27.8
177.mesa	2	70.4	46.1	2	70.4	46.1
178.galgel	2	104	64.8	2	104	64.8
179.art	2	84.6	71.3	2	84.6	71.3
183.quake	2	84.7	35.6	2	84.7	35.6
187.facerec	2	101	43.5	2	101	43.5
188.amp	2	189	27.0	2	189	27.0
189.lucas	2	139	33.4	2	139	33.4
191.fma3d	2	164	29.6	2	164	29.6
200.sixtrack	2	157	16.3	2	157	16.3
301.apsi	2	192	31.4	2	192	31.4

### Hardware

CPU: Intel Xeon processor 3040 (1.86 GHz, 2MB L2, 1066 MHz system bus)  
CPU MHz: 1866  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1 chip  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 2048KB(I+D) on chip, per chip  
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 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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