



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX300 S3, Intel Xeon processor E5345, 2.33 GHz

SPECfp\_rate2000 = 58.1

SPECfp\_rate\_base2000 = 58.1

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Oct-2006 | Hardware Avail: Jan-2007 | Software Avail: Aug-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	99.6	74.6	4	99.6	74.6
171.swim	4	430	33.5	4	430	33.5
172.mgrid	4	269	31.0	4	269	31.0
173.applu	4	295	33.0	4	295	33.0
177.mesa	4	59.3	109	4	59.3	109
178.galgel	4	81.6	165	4	81.6	165
179.art	4	70.6	171	4	70.6	171
183.quake	4	185	32.6	4	185	32.6
187.facerec	4	113	77.8	4	113	77.8
188.amp	4	141	72.6	4	141	72.6
189.lucas	4	253	36.6	4	253	36.6
191.fma3d	4	240	40.6	4	240	40.6
200.sixtrack	4	125	40.8	4	125	40.8
301.apsi	4	215	56.2	4	215	56.2

### Hardware

CPU: Intel Xeon processor E5345 (2.33 GHz, 2x4MB L2, 1333 MHz system bus)  
CPU MHz: 2333  
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 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 1333 MHz

This result was measured with 64-bit binaries using the 64-bit version of the operating system.

BIOS Configuration:

Adjacent Sector Prefetch = disable

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

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