



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY RX600 S3, Intel Xeon processor 7120M, 3.0 GHz

SPECfp\_rate2000 = 33.7

SPECfp\_rate\_base2000 = 33.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	133	55.9	4	133	55.9
171.swim	4	394	36.5	4	394	36.5
172.mgrid	4	274	30.5	4	274	30.5
173.applu	4	361	27.0	4	361	27.0
177.mesa	4	190	34.2	4	190	34.2
178.galgel	4	255	52.7	4	255	52.7
179.art	4	180	67.1	4	180	67.1
183.quake	4	194	31.0	4	194	31.0
187.facerec	4	235	37.5	4	235	37.5
188.amp	4	465	21.9	4	465	21.9
189.lucas	4	292	31.8	4	292	31.8
191.fma3d	4	338	28.8	4	338	28.8
200.sixtrack	4	295	17.3	4	295	17.3
301.apsi	4	407	29.6	4	407	29.6

### Hardware

CPU: Intel Xeon processor 7120M (3.0 GHz, 2x1MB L2, 4MB L3, 800 MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2,4 chips  
Parallel: No  
Primary Cache: 12k micro-ops(I) + 16KB(D) on chip, per core  
Secondary Cache: 1024KB(I+D) on chip, per core  
L3 Cache: 4MB on chip, per chip  
Other Cache: N/A  
Memory: 16x1GB DDRII-RAM PC2-3200R (CAS 3-3-3)  
Disk Subsystem: Fujitsu MAS3367NC (SCSI, 15krpm, 36GB)  
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.

This result was measured on the PRIMERGY TX600 S3. The PRIMERGY TX600 S3 and the PRIMERGY RX600 S3 are electronically equivalent.

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