



# CFP2000 Result

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## Fujitsu Siemens Computers

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

SPECfp\_rate2000 = 57.3

SPECfp\_rate\_base2000 = 57.3

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	8	154	96.1	8	154	96.1
171.swim	8	556	51.7	8	556	51.7
172.mgrid	8	374	44.6	8	374	44.6
173.applu	8	416	46.9	8	416	46.9
177.mesa	8	191	67.9	8	191	67.9
178.galgel	8	298	90.3	8	298	90.3
179.art	8	236	102	8	236	102
183.quake	8	251	48.2	8	251	48.2
187.facerec	8	266	66.3	8	266	66.3
188.amp	8	500	40.8	8	500	40.8
189.lucas	8	378	49.1	8	378	49.1
191.fma3d	8	384	50.7	8	384	50.7
200.sixtrack	8	298	34.2	8	298	34.2
301.apsi	8	426	56.7	8	426	56.7

### 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: 4 cores, 2 chips, 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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