



# CFP2000 Result

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## Fujitsu Siemens Computers

PRIMERGY BX620 S3, Intel Xeon processor E5320, 1.86 GHz

SPECfp\_rate2000 = 47.0

SPECfp\_rate\_base2000 = 47.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	123	60.3	4	123	60.3
171.swim	4	529	27.2	4	529	27.2
172.mgrid	4	331	25.2	4	331	25.2
173.applu	4	364	26.8	4	364	26.8
177.mesa	4	74.8	86.9	4	74.8	86.9
178.galgel	4	101	133	4	101	133
179.art	4	88.8	136	4	88.8	136
183.quake	4	232	26.0	4	232	26.0
187.facerec	4	140	63.2	4	140	63.2
188.amp	4	176	58.1	4	176	58.1
189.lucas	4	310	29.9	4	310	29.9
191.fma3d	4	292	33.3	4	292	33.3
200.sixtrack	4	157	32.4	4	157	32.4
301.apsi	4	254	47.5	4	254	47.5

### Hardware

CPU: Intel Xeon processor E5320 (1.86 GHz, 2x4MB L2, 1066 MHz system bus)  
CPU MHz: 1866  
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 ST936701SS (SAS, 10 krpm, 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: reiserfs  
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 Cache Line Prefetch = Disable

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