



# CFP2000 Result

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Dell

PowerEdge 1950 (Intel Xeon processor E5310, 1.60 GHz)

SPECfp\_rate2000 = 77.5

SPECfp\_rate\_base2000 = 77.5

SPEC license #: 55 | Tested by: Dell, Inc., Round Rock, TX | Test date: Nov-2006 | Hardware Avail: Dec-2006 | Software Avail: Aug-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	136	109	8	136	109
171.swim	8	586	49.1	8	586	49.1
172.mgrid	8	412	40.5	8	412	40.5
173.applu	8	386	50.5	8	386	50.5
177.mesa	8	84.5	154	8	84.5	154
178.galgel	8	127	211	8	127	211
179.art	8	172	140	8	172	140
183.quake	8	272	44.3	8	272	44.3
187.facerec	8	188	93.6	8	188	93.6
188.amp	8	202	101	8	202	101
189.lucas	8	331	56.0	8	331	56.0
191.fma3d	8	340	57.3	8	340	57.3
200.sixtrack	8	184	55.4	8	184	55.4
301.apsi	8	318	75.9	8	318	75.9

### Hardware

CPU: Quad-Core Intel Xeon processor E5310 (1066 MHz system bus)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8 MB I+D on chip, per chip (4 MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 GB (8 x 1 GB 667 MHz CL5 FB-DIMM DDR2 SDRAM)  
Disk Subsystem: 1 x 80GB SATA 7200 RPM  
Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux 4 Advanced Server Update 4 EM64T  
Compiler: Intel C++ Compiler 9.0 for EM64T Build 20060120  
Intel Fortran Compiler 9.0 for EM64T Build 20051201  
File System: ext3  
System State: Runlevel 3

## Notes/Tuning Information

### GENERAL

ONESTEP=yes for all benchmarks

+FDO implies feedback-directed optimization PASS1: -prof\_gen PASS2: -prof\_use

### PORTABILITY FLAGS

-DSPEC\_CPU2000\_LP64 applied to all benchmarks

178.galgel: -FI for fixed-format Fortran

### BASE TUNING

Baseline optimizations for C and Fortran: -fast +FDO

### PEAK TUNING

basepeak=yes set for all benchmarks

### BIOS SETTINGS

Adjacent Cache Line Prefetch disabled in BIOS