



# CFP2000 Result

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**Dell**  
**PowerEdge 2650 (3.2GHz Xeon, 2MB L3)**

SPECfp\_rate2000 = 24.3  
SPECfp\_rate\_base2000 = 24.0

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Jan-2004 | Hardware Avail: Feb-2004 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	117	31.8	2	117	31.8
171.swim	2	358	20.1	2	354	20.3
172.mgrid	2	211	19.7	2	212	19.7
173.applu	2	288	16.9	2	288	16.9
177.mesa	2	111	29.2	2	109	29.7
178.galgel	2	121	55.5	2	121	55.5
179.art	2	213	28.3	2	197	30.6
183.quake	2	150	20.1	2	149	20.3
187.facerec	2	146	30.2	2	142	31.0
188.amp	2	206	24.7	2	204	25.0
189.lucas	2	228	20.3	2	225	20.6
191.fma3d	2	235	20.8	2	235	20.8
200.sixtrack	2	184	13.8	2	181	14.1
301.apsi	2	248	24.3	2	251	24.0

**Hardware**

CPU: Intel Xeon  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 2048KB(I+D) on chip  
Other Cache: N/A  
Memory: 4 x 1024MB ECC DDR266 SDRAM  
Disk Subsystem: 1 x 36GB Seagate Cheetha 15K U320 SCSI  
Other Hardware:

**Software**

Operating System: Windows 2000 Advanced Server (SP2)  
Compiler: Intel C++ Compiler 7.1 (20030402Z)  
Intel Fortran Compiler 7.1 (20030402Z)  
Microsoft Visual Studio .NET (7.0.9466)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

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PORTABILITY
  178.galgel: -FI /F32000000
FEEDBACK DIRECTED OPTIMIZATION
  FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
BASE TUNING
  C/F77/F90: -Qipo -QxW -O3 +FDO
PEAK TUNING
  168.wupwise: -Qipo -QxW -O3 +FDO
  171.swim: -Qipo -QxW -O3 +FDO
  172.mgrid: -Qipo -QaxW -O3 +FDO
  173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO
  177.mesa: PASS1= -Qprof_gen PASS2= -Qipo -Qprof_use -QxW -O3 -Oa
  178.galgel: -Qipo -QxW -O3 +FDO
  179.art: -Oa -Qipo -Qunroll4 -Zp4
  183.quake: -QxW -Oa -Qrcd -Qipo +FDO
  187.facerec: -O3 -QaxW -Qipo -Qunroll11 -Qscalar_rep- +FDO
  188.amp: -Oa -QxW

```



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## Notes/Tuning Information (Continued)

189.lucas: -Qipo -QaxW  
191.fma3d: basepeak=yes  
200.sixtrack: -Qipo -QxW +FDO  
301.apsi: -Qipo -QxW -O3 +FDO  
ONESTEP=YES is set for all benchmarks  
Hyper-Threading Technology disabled in BIOS