



# CFP2000 Result

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**Dell**  
**PowerEdge 6650 (2.8 GHz Xeon MP)**

SPECfp\_rate2000 = **19.3**  
SPECfp\_rate\_base2000 = **19.0**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	146	25.3	2	147	25.3
171.swim	2	489	14.7	2	489	14.7
172.mgrid	2	287	14.5	2	288	14.5
173.applu	2	414	11.8	2	413	11.8
177.mesa	2	126	25.7	2	125	26.0
178.galgel	2	149	45.2	2	149	45.1
179.art	2	259	23.3	2	215	28.0
183.quake	2	186	16.2	2	184	16.4
187.facerec	2	191	23.1	2	192	23.0
188.amp	2	244	20.9	2	245	20.8
189.lucas	2	315	14.7	2	315	14.7
191.fma3d	2	296	16.4	2	296	16.4
200.sixtrack	2	212	12.0	2	210	12.1
301.apsi	2	302	20.0	2	302	20.0

**Hardware**

CPU: Intel Xeon MP (400 MHz system bus)  
CPU MHz: 2800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2,4  
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 DDR200  
Disk Subsystem: 1 x 36GB SEAGATE ST336706LC  
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: Hyper-Threading Technology disabled using BIOS switch. Additional CPUs disabled using /noprocs flag in Windows boot.ini file.

## Notes/Tuning Information

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PORTABILITY
  178.galgel: -FI /F32000000
FEEDBACK DIRECTED OPTIMIZATION
ONESTEP=YES
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: -Qipo -QxW -O3 -Oa +FDO
178.galgel: -Qipo -QxW -O3 +FDO
179.art: -Oa -Qipo -Qunroll4 -Zp4
183.quake: -Qipo -QxW -Oa -Qrcd +FDO
187.facerec: -O3 -QaxW -Qipo -Qunroll1 -Qscalar_rep- +FDO

```



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## Notes/Tuning Information (Continued)

188. ammp: -Oa -QxW  
189. lucas: -Qipo -QaxW  
191. fma3d: basepeak=yes  
200. sixtrack: -Qipo -QxW +FDO  
301. apsi: -Qipo -QxW -O3 +FDO