



# CFP2000 Result

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**Dell**  
Precision Workstation 650 (3.2 GHz Xeon, 1MB L3 Cache)

SPECfp2000 = **1213**  
SPECfp\_base2000 = **1200**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	99.6	1606	100.0	1601	
171.swim	3100	198	1562	198	1563	
172.mgrid	1800	154	1167	154	1167	
173.applu	2100	192	1093	192	1095	
177.mesa	1400	106	1315	105	1332	
178.galgel	2900	144	2016	144	2009	
179.art	2600	289	901	279	931	
183.quake	1300	96.0	1354	91.6	1419	
187.facerec	1900	127	1493	124	1535	
188.amp	2200	254	867	252	873	
189.lucas	2000	148	1354	146	1366	
191.fma3d	2100	176	1192	176	1192	
200.sixtrack	1100	186	590	183	603	
301.apsi	2600	259	1003	259	1004	

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 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: 1024KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 512MB PC2100 ECC DDR SDRAM CL2-2-2  
 Disk Subsystem: 1 x 36GB 10K RPM U320 SCSI  
 Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
 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

### 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
```

1 CPU disabled via BIOS setting.