



# CFP2000 Result

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**Dell**  
Precision Workstation 650 (2.80 GHz Xeon, 1MB L3 Cache)

SPECfp2000 = **1107**  
SPECfp\_base2000 = **1091**

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

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 111          | 1438       | 111     | 1438  |  |
| 171.swim     | 3100           | 191          | 1625       | 191     | 1625  |  |
| 172.mgrid    | 1800           | 181          | 992        | 181     | 992   |  |
| 173.applu    | 2100           | 218          | 966        | 197     | 1068  |  |
| 177.mesa     | 1400           | 113          | 1234       | 113     | 1234  |  |
| 178.galgel   | 2900           | 158          | 1833       | 158     | 1833  |  |
| 179.art      | 2600           | 304          | 855        | 291     | 893   |  |
| 183.quake    | 1300           | 105          | 1244       | 103     | 1268  |  |
| 187.facerec  | 1900           | 146          | 1299       | 141     | 1349  |  |
| 188.amp      | 2200           | 278          | 791        | 278     | 791   |  |
| 189.lucas    | 2000           | 153          | 1308       | 152     | 1319  |  |
| 191.fma3d    | 2100           | 205          | 1024       | 205     | 1024  |  |
| 200.sixtrack | 1100           | 208          | 530        | 208     | 530   |  |
| 301.apsi     | 2600           | 303          | 858        | 303     | 858   |  |

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 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 ECC CL2-2-2 PC2100 DDR SDRAM  
 Disk Subsystem: 1 x 18GB U320 SCSI, 10K RPM  
 Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
 Compiler: Intel C/C++ Compiler 8.0 (20031229Z)  
 Intel Fortran Compiler 8.0 (20031229Z)  
 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: -QxN -Qipo -O3 +FDO

### PEAK TUNING

168.wupwise: basepeak=yes

171.swim: basepeak=yes

172.mgrid: basepeak=yes

173.applu: -QxN -Qipo -O3 -Qscalar\_rep- -Qauto +FDO

177.mesa: -QxN -Qipo -O3 -Oa +FDO

178.galgel: basepeak=yes

179.art: -Qipo -Oa -Qunroll4 -Zp4

183.quake: -QxN -Qipo -O3 -Oa -Qrcd +FDO

187.facerec: -QaxN -Qipo -O3 -Qunroll1 -Qscalar\_rep- +FDO



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## Notes/Tuning Information (Continued)

188. ammp: basepeak=yes  
189. lucas: -QaxN -Qipo -O3  
191. fma3d: basepeak=yes  
200. sixtrack: basepeak=yes  
301. apsi: basepeak=yes

NOTES  
1 CPU Disabled in the BIOS.  
Hyper-Threading Technology not enabled.