



# CFP2000 Result

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## Dell

Precision Workstation 650 (3.20 GHz Xeon, 2MB L3 Cache)

SPECfp\_rate2000 = 15.6

SPECfp\_rate\_base2000 = 15.5

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

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 1           | 101          | 18.4       | 1      | 101     | 18.4  |
| 171.swim     | 1           | 182          | 19.8       | 1      | 182     | 19.8  |
| 172.mgrid    | 1           | 158          | 13.2       | 1      | 158     | 13.2  |
| 173.applu    | 1           | 194          | 12.5       | 1      | 188     | 13.0  |
| 177.mesa     | 1           | 99.9         | 16.3       | 1      | 99.9    | 16.3  |
| 178.galgel   | 1           | 108          | 31.2       | 1      | 108     | 31.2  |
| 179.art      | 1           | 138          | 21.9       | 1      | 134     | 22.4  |
| 183.quake    | 1           | 96.4         | 15.6       | 1      | 96.4    | 15.6  |
| 187.facerec  | 1           | 126          | 17.5       | 1      | 124     | 17.8  |
| 188.amp      | 1           | 185          | 13.8       | 1      | 185     | 13.8  |
| 189.lucas    | 1           | 144          | 16.1       | 1      | 143     | 16.2  |
| 191.fma3d    | 1           | 186          | 13.1       | 1      | 186     | 13.1  |
| 200.sixtrack | 1           | 177          | 7.19       | 1      | 177     | 7.19  |
| 301.apsi     | 1           | 246          | 12.3       | 1      | 246     | 12.3  |

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 3200  
 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: 2048KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 512MB ECC CL2-2-2 PC2100 DDR SDRAM  
 Disk Subsystem: 1 x 36GB 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.ammf: 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.