



# CFP2000 Result

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**Dell**  
Precision WorkStation 650 (2.4 GHz Xeon)

SPECfp\_rate2000 = 11.0  
SPECfp\_rate\_base2000 = 10.8

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Mar-2002 | Hardware Avail: Nov-2002 | Software Avail: Jun-2002

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 1           | 131          | 14.1       | 1      | 125     | 14.8  |
| 171.swim     | 1           | 204          | 17.6       | 1      | 204     | 17.7  |
| 172.mgrid    | 1           | 205          | 10.2       | 1      | 204     | 10.2  |
| 173.applu    | 1           | 216          | 11.3       | 1      | 213     | 11.4  |
| 177.mesa     | 1           | 150          | 10.8       | 1      | 149     | 10.9  |
| 178.galgel   | 1           | 209          | 16.1       | 1      | 209     | 16.1  |
| 179.art      | 1           | 390          | 7.73       | 1      | 390     | 7.73  |
| 183.quake    | 1           | 105          | 14.3       | 1      | 101     | 14.9  |
| 187.facerec  | 1           | 172          | 12.8       | 1      | 172     | 12.8  |
| 188.amp      | 1           | 375          | 6.81       | 1      | 374     | 6.82  |
| 189.lucas    | 1           | 160          | 14.5       | 1      | 156     | 14.9  |
| 191.fma3d    | 1           | 229          | 10.6       | 1      | 229     | 10.6  |
| 200.sixtrack | 1           | 246          | 5.19       | 1      | 243     | 5.26  |
| 301.apsi     | 1           | 382          | 7.90       | 1      | 378     | 7.99  |

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
 CPU MHz: 2400  
 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: N/A  
 Other Cache: N/A  
 Memory: 4 x 512MB PC2100 CL2-2-2 DDR ECC SDRAM  
 Disk Subsystem: 1 x 36GB Seagate 15K U320  
 Other Hardware:

### Software

Operating System: Windows XP Professional (SP1)  
 Compiler: Intel C++ and Fortran Compiler 6.0 (020613Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 MicroQuill SmartHeap Library 6.01  
 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 +FDO
  171.swim: -Qipo -QxW -O3 +FDO
  172.mgrid: -Qipo -QaxW -O3 +FDO
  173.applu: -Qipo -QxW -O3 -Qscalar_rep- +FDO
  177.mesa: -Qipo -QxW -O3 -Oa +FDO
  178.galgel: -Qipo -QxW -O3 +FDO
  179.art: -Qipo -QxW -O3 -Oa +FDO
  183.quake: -Qipo -QxW -O3 -Oa +FDO
  187.facerec: -Qipo -QxW -O3 +FDO
  188.amp: -Qipo -QxW -O3 -Oa +FDO

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## Notes/Tuning Information (Continued)

189.lucas: -Qipo -QaxW  
191.fma3d: -Qipo -QxW -O3 +FDO  
200.sixtrack: -Qipo -QxW +FDO  
301.apsi: -Qipo -QxW +FDO  
EXTRA LIBRARIES  
shlw32M.lib: MicroQuill SmartHeap Library 6.01  
www.microquill.com