



# CFP2000 Result

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**Dell**  
Precision WorkStation 530 (2.4 GHz Xeon)

SPECfp2000 = **827**  
SPECfp\_base2000 = **821**

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

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | 500 1000 1500 2000             |  |  |  |
|--------------|----------------|--------------|------------|---------|-------|--------------------------------|--|--|--|
| 168.wupwise  | 1600           | 151          | 1063       | 144     | 1109  | [Bar chart showing ratio 1109] |  |  |  |
| 171.swim     | 3100           | 232          | 1335       | 232     | 1335  | [Bar chart showing ratio 1335] |  |  |  |
| 172.mgrid    | 1800           | 234          | 770        | 234     | 771   | [Bar chart showing ratio 771]  |  |  |  |
| 173.applu    | 2100           | 247          | 849        | 243     | 864   | [Bar chart showing ratio 864]  |  |  |  |
| 177.mesa     | 1400           | 153          | 913        | 152     | 918   | [Bar chart showing ratio 918]  |  |  |  |
| 178.galgel   | 2900           | 250          | 1160       | 250     | 1160  | [Bar chart showing ratio 1160] |  |  |  |
| 179.art      | 2600           | 476          | 546        | 475     | 547   | [Bar chart showing ratio 547]  |  |  |  |
| 183.quake    | 1300           | 135          | 962        | 140     | 927   | [Bar chart showing ratio 927]  |  |  |  |
| 187.facerec  | 1900           | 183          | 1038       | 183     | 1038  | [Bar chart showing ratio 1038] |  |  |  |
| 188.amp      | 2200           | 456          | 483        | 454     | 485   | [Bar chart showing ratio 485]  |  |  |  |
| 189.lucas    | 2000           | 178          | 1125       | 172     | 1165  | [Bar chart showing ratio 1165] |  |  |  |
| 191.fma3d    | 2100           | 257          | 817        | 257     | 817   | [Bar chart showing ratio 817]  |  |  |  |
| 200.sixtrack | 1100           | 259          | 424        | 251     | 438   | [Bar chart showing ratio 438]  |  |  |  |
| 301.apsi     | 2600           | 415          | 626        | 413     | 630   | [Bar chart showing ratio 630]  |  |  |  |

### Hardware

CPU: Intel Xeon (400 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: 2 x 256MB PC800-45 ECC RDRAM  
 Disk Subsystem: 1 x 18GB Fujitsu Limited 10K U160  
 Other Hardware:

### Software

Operating System: Windows XP Professional  
 Compiler: Intel C++ and Fortran Compiler 6.0 (020423Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 MicroQuill SmartHeap Library 6.01  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

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 shlw32M.lib  
 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