



# CFP2000 Result

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**Dell**  
**Precision WorkStation 340 (1.8 GHz P4)**

**SPECfp2000 = 711**  
**SPECfp\_base2000 = 709**

SPEC license #: 55 Tested by: Dell, Round Rock, TX Test date: Sep-2002 Hardware Avail: Sep-2001 Software Avail: Jun-2002

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 183          | 874        | 174     | 922   |  |
| 171.swim     | 3100           | 230          | 1348       | 230     | 1347  |  |
| 172.mgrid    | 1800           | 267          | 674        | 267     | 673   |  |
| 173.applu    | 2100           | 267          | 785        | 265     | 794   |  |
| 177.mesa     | 1400           | 205          | 683        | 203     | 688   |  |
| 178.galgel   | 2900           | 284          | 1022       | 284     | 1021  |  |
| 179.art      | 2600           | 471          | 552        | 469     | 554   |  |
| 183.quake    | 1300           | 144          | 904        | 167     | 777   |  |
| 187.facerec  | 1900           | 239          | 796        | 238     | 799   |  |
| 188.amp      | 2200           | 545          | 404        | 542     | 406   |  |
| 189.lucas    | 2000           | 195          | 1027       | 184     | 1086  |  |
| 191.fma3d    | 2100           | 307          | 684        | 307     | 684   |  |
| 200.sixtrack | 1100           | 338          | 326        | 326     | 337   |  |
| 301.apsi     | 2600           | 510          | 510        | 505     | 515   |  |

### Hardware

CPU: Intel Pentium 4 (400 MHz system bus)  
 CPU MHz: 1800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 256KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2 x 256MB PC800-40 ECC RDRAM  
 Disk Subsystem: 1 x 10GB Maxtor 7.2K ATA/100  
 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