



# CFP2000 Result

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**Dell**  
Precision WorkStation 330 (1.70 GHz P4)

SPECfp\_rate2000 = 7.01  
SPECfp\_rate\_base2000 = 6.83

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Apr-2001 | Hardware Avail: Apr-2001 | Software Avail: Oct-2000

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 1           | 188          | 9.90       | 1      | 188     | 9.87  |
| 171.swim     | 1           | 247          | 14.6       | 1      | 247     | 14.5  |
| 172.mgrid    | 1           | 295          | 7.08       | 1      | 272     | 7.67  |
| 173.applu    | 1           | 295          | 8.27       | 1      | 289     | 8.42  |
| 177.mesa     | 1           | 220          | 7.37       | 1      | 217     | 7.48  |
| 178.galgel   | 1           | 507          | 6.63       | 1      | 506     | 6.65  |
| 179.art      | 1           | 496          | 6.08       | 1      | 482     | 6.26  |
| 183.quake    | 1           | 165          | 9.13       | 1      | 142     | 10.6  |
| 187.facerec  | 1           | 382          | 5.77       | 1      | 375     | 5.88  |
| 188.amp      | 1           | 575          | 4.44       | 1      | 571     | 4.47  |
| 189.lucas    | 1           | 242          | 9.58       | 1      | 235     | 9.85  |
| 191.fma3d    | 1           | 496          | 4.91       | 1      | 497     | 4.91  |
| 200.sixtrack | 1           | 380          | 3.36       | 1      | 374     | 3.41  |
| 301.apsi     | 1           | 579          | 5.21       | 1      | 573     | 5.26  |

### Hardware

CPU: Intel Pentium 4  
CPU MHz: 1700  
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: 4 x 128MB PC800 ECC RDRAM  
Disk Subsystem: 1 x 20GB Maxtor 7.2K ATA/5  
Other Hardware:

### Software

Operating System: Windows 2000 (SP1)  
Compiler: Intel C++ and Fortran Compiler 5.0 Build 001004  
Microsoft Visual C++ 6.0 (for libraries)  
MicroQuill SmartHeap Library 5.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

PORTABILITY  
178.galgel: -FI /F32000000  
FEEDBACK-DIRECTED OPTIMIZATION  
FDO1: PASS1= /Qprof\_gen  
FDO2: PASS1= /Qprof\_gen PASS2= /Qprof\_use  
BASE TUNING  
C/F77/F90: -Qipo +FDO2 -QxW -O3  
PEAK TUNING  
168.wupwise: /Qipo +FDO2 /QxW /Qprefetch  
171.swim: /Qipo +FDO2 /QxW /O3  
172.mgrid: /Qipo +FDO2 /QaxW /O3  
173.applu: /Qipo +FDO2 /QxW /O3 /Qscalar\_rep- /Qauto  
177.mesa: -Qwp\_ipo +FDO2 -QxW -Qunroll10  
178.galgel: /Qipo +FDO2 /QxW /O3  
179.art: -Qipo +FDO2 -QxW -Oa shlw32M.lib  
183.quake: -Qwp\_ipo +FDO2 -QxW -Oa shlw32M.lib  
187.facerec: /Qipo +FDO2 /QxW /O3 /Qauto shlw32M.lib



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## Notes/Tuning Information (Continued)

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188. ammp:      -Qipo +FDO2 -QaxW -Oa
189. lucas:     /Qipo +FDO1 /QxW /Qunroll10
191. fma3d:    /Qipo +FDO2 /QxW /O3
200. sixtrack: /Qipo +FDO2 /QaxW
301. psi:      /Qipo +FDO1 /QxW /O3
EXTRA LIBRARIES
shlw32M.lib:   MicroQuill SmartHeap Library 5.0
               www.microquill.com
LIBRARY ORDERING
187. facerec:  libIEPCF90.lib libintrins.lib libF90.lib libqwind.lib
               libm.lib shlw32M.lib LIBC.lib libirc.lib OLDNAMES.lib
```