



# CFP2000 Result

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**Dell**  
**Precision WorkStation 340 (2.2 GHz P4)**

**SPECfp2000 = 801**  
**SPECfp\_base2000 = 779**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	151	1061	149	1075	
171.swim	3100	235	1319	235	1319	
172.mgrid	1800	239	753	236	763	
173.applu	2100	251	836	251	838	
177.mesa	1400	155	906	157	892	
178.galgel	2900	292	993	292	994	
179.art	2600	476	547	470	553	
183.earthquake	1300	160	813	119	1092	
187.facerec	1900	191	995	198	958	
188.amp	2200	441	499	428	514	
189.lucas	2000	196	1022	195	1028	
191.fma3d	2100	299	702	299	702	
200.sixtrack	1100	274	401	264	417	
301.apsi	2600	428	607	422	617	

### Hardware

CPU: Intel Pentium 4  
 CPU MHz: 2200  
 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: 512KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2 x 128MB PC800 ECC RDRAM  
 Disk Subsystem: 1 x 20GB Maxtor 7.2K ATA/5  
 Other Hardware:

### Software

Operating System: Windows 2000 Professional (SP2)  
 Compiler: Intel C++ and Fortran Compiler 5.0.1 (010727Z)  
 Microsoft Visual C++ 6.0 (SP5)  
 MicroQuill SmartHeap Library 5.0  
 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 +FDO /QxW /O3  
 PEAK TUNING  
 168.wupwise: /Qipo +FDO /QxW /Qprefetch  
 171.swim: /Qipo +FDO /QxW /O3  
 172.mgrid: /Qipo +FDO /QaxW /O3  
 173.applu: /Qipo +FDO /QxW /O3 /Qscalar\_rep- /Qauto  
 177.mesa: -Qwp\_ipo +FDO -QxW -Qunroll10  
 178.galgel: /Qipo +FDO /QxW /O3  
 179.art: -Qipo +FDO -QxW -O3 shlw32M.lib  
 183.earthquake: -Qwp\_ipo +FDO -QxW -Oa shlw32M.lib  
 187.facerec: /Qipo +FDO /QxW /O3 shlw32M.lib  
 188.amp: -Qipo +FDO -QaxW -Oa



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## Notes/Tuning Information (Continued)

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189.lucas: /Qipo /QxW /Qunroll10
191.fma3d: /Qipo +FDO /QxW /O3
200.sixtrack: /Qipo +FDO /QxW
301.apsi: /Qipo /QxW /O3
EXTRA LIBRARIES
shlW32M.lib: MicroQuill SmartHeap Library 5.0
www.microquill.com
LIBRARY ORDERING
187.facerec: libIEPCF90.lib libintrins.lib libF90.lib libqwin.lib
libm.lib shlW32M.lib LIBC.lib libirc.lib OLDNAMES.lib
```