



# CFP2000 Result

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**Dell**  
**Precision WorkStation 340 (2.0 GHz P4)**

SPECfp2000 = **779**  
SPECfp\_base2000 = **773**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	165	968	158	1014	
171.swim	3100	228	1362	226	1370	
172.mgrid	1800	246	732	245	733	
173.applu	2100	256	820	251	836	
177.mesa	1400	181	774	180	780	
178.galgel	2900	264	1099	262	1109	
179.art	2600	473	550	468	556	
183.earthquake	1300	137	950	150	865	
187.facerec	1900	201	945	201	946	
188.amp	2200	461	477	459	479	
189.lucas	2000	183	1091	175	1144	
191.fma3d	2100	285	738	283	741	
200.sixtrack	1100	304	362	294	374	
301.apsi	2600	439	592	434	599	

### Hardware

CPU: Intel Pentium 4 (400 MHz system bus)  
CPU MHz: 2000  
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 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.earthquake: -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