



# CFP2000 Result

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**Dell**  
**Precision WorkStation 350 (2.8 GHz P4)**

SPECfp\_rate2000 = 12.3  
SPECfp\_rate\_base2000 = 12.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	121	15.3	1	116	16.0
171.swim	1	169	21.3	1	169	21.3
172.mgrid	1	180	11.6	1	180	11.6
173.applu	1	184	13.2	1	182	13.4
177.mesa	1	132	12.3	1	130	12.4
178.galgel	1	196	17.2	1	195	17.2
179.art	1	364	8.30	1	365	8.26
183.quake	1	103	14.6	1	100	15.1
187.facerec	1	152	14.5	1	152	14.5
188.amp	1	351	7.28	1	349	7.31
189.lucas	1	135	17.2	1	131	17.7
191.fma3d	1	204	11.9	1	204	11.9
200.sixtrack	1	213	6.00	1	210	6.08
301.apsi	1	326	9.25	1	323	9.33

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
 CPU MHz: 2800  
 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 PC1066-32 ECC RDRAM  
 Disk Subsystem: 1 x 20GB Maxtor 7.2K ATA/100  
 Other Hardware:

### Software

Operating System: Windows XP Professional  
 Compiler: Intel C++ and Fortran Compiler 6.0 (020613Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 MicroQuill SmartHeap Library 6.01  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

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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
  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