



# CFP2000 Result

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**Dell**  
**Precision WorkStation 340 (2.4 GHz P4)**

SPECfp2000 = **878**

SPECfp\_base2000 = **855**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	134	1192	133	1199	
171.swim	3100	218	1419	218	1420	
172.mgrid	1800	218	826	215	835	
173.applu	2100	228	920	228	921	
177.mesa	1400	141	991	144	975	
178.galgel	2900	263	1103	263	1103	
179.art	2600	448	581	442	588	
183.earthquake	1300	146	891	109	1197	
187.facerec	1900	173	1097	179	1059	
188.amp	2200	399	551	387	568	
189.lucas	2000	177	1130	176	1137	
191.fma3d	2100	271	776	271	776	
200.sixtrack	1100	251	438	242	454	
301.apsi	2600	391	664	386	674	

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
 CPU MHz: 2400  
 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 10GB Maxtor 7.2K ATA/5  
 Other Hardware:

### Software

Operating System: Windows 2000 Professional (SP2)  
 Compiler: Intel C++ and Fortran Compiler 5.0.1 (020125Z)  
 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)

```
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
```