



# CFP2000 Result

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**Dell**  
**Precision WorkStation 330 (2.0 GHz P4)**

**SPECfp2000 = 669**  
**SPECfp\_base2000 = 649**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	165	972	165	969	
171.swim	3100	239	1297	239	1297	
172.mgrid	1800	263	684	249	724	
173.applu	2100	273	771	268	783	
177.mesa	1400	189	742	185	757	
178.galgel	2900	467	622	467	621	
179.art	2600	483	538	472	551	
183.quake	1300	168	775	130	1001	
187.facerec	1900	332	573	327	581	
188.amp	2200	532	414	528	416	
189.lucas	2000	220	909	217	922	
191.fma3d	2100	423	496	423	496	
200.sixtrack	1100	323	341	318	346	
301.apsi	2600	519	501	515	505	

### Hardware

CPU: Intel Pentium 4  
 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: 256KB(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 (SP1)  
 Compiler: Intel C++ and Fortran Compiler 5.0 (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
  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 -Oa shlw32M.lib
  183.quake:   -Qwp_ipo +FDO -QxW -Oa shlw32M.lib
  187.facerec: /Qipo +FDO /QxW /O3 /Qauto shlw32M.lib
  188.amp:     -Qipo +FDO -QaxW -Oa

```



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Dell Precision WorkStation 330 (2.0 GHz P4)	SPECfp2000 =	669
	SPECfp_base2000 =	649

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

## Notes/Tuning Information (Continued)

```
189.lucas: /Qipo /QxW /Qunroll10
191.fma3d: /Qipo +FDO /QxW /O3
200.sixtrack: /Qipo +FDO /QaxW
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 libqwind.lib
libm.lib shlW32M.lib LIBC.lib libirc.lib OLDNAMES.lib
```