



# CFP2000 Result

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**Dell**  
**Precision WorkStation 330 (1.50 GHz P4)**

**SPECfp\_rate2000 = 6.53**  
**SPECfp\_rate\_base2000 = 6.34**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	206	8.99	1	205	9.07
171.swim	1	250	14.4	1	247	14.6
172.mgrid	1	326	6.41	1	296	7.05
173.applu	1	321	7.58	1	309	7.88
177.mesa	1	250	6.49	1	244	6.64
178.galgel	1	543	6.19	1	540	6.23
179.art	1	502	6.00	1	489	6.17
183.quake	1	175	8.61	1	153	9.84
187.facerec	1	423	5.20	1	415	5.31
188.amp	1	603	4.23	1	601	4.25
189.lucas	1	259	8.97	1	251	9.26
191.fma3d	1	547	4.45	1	547	4.46
200.sixtrack	1	429	2.98	1	423	3.02
301.apsi	1	615	4.90	1	609	4.95

**Hardware**

CPU: Intel Pentium 4  
CPU MHz: 1500  
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: 4 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 Build 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  
FDO1: PASS1= /Qprof\_gen  
FDO2: PASS1= /Qprof\_gen PASS2= /Qprof\_use

BASE TUNING  
C/F77/F90: -Qipo +FDO2 -QxW -O3

PEAK TUNING  
168.wupwise: /Qipo +FDO2 /QxW /Qprefetch  
171.swim: /Qipo +FDO2 /QxW /O3  
172.mgrid: /Qipo +FDO2 /QaxW /O3  
173.applu: /Qipo +FDO2 /QxW /O3 /Qscalar\_rep- /Qauto  
177.mesa: -Qwp\_ipo +FDO2 -QxW -Qunroll10  
178.galgel: /Qipo +FDO2 /QxW /O3  
179.art: -Qipo +FDO2 -QxW -Oa shlw32M.lib  
183.quake: -Qwp\_ipo +FDO2 -QxW -Oa shlw32M.lib  
187.facerec: /Qipo +FDO2 /QxW /O3 /Qauto shlw32M.lib



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## Notes/Tuning Information (Continued)

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188. ammp:      -Qipo +FDO2 -QaxW -Oa
189. lucas:     /Qipo +FDO1 /QxW /Qunroll10
191. fma3d:    /Qipo +FDO2 /QxW /O3
200. sixtrack: /Qipo +FDO2 /QaxW
301. psi:      /Qipo +FDO1 /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
```