



# CFP2000 Result

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**Dell**  
Precision WorkStation 420 (1.0 GHz PIII)

SPECfp\_rate2000 = **6.16**  
SPECfp\_rate\_base2000 = **5.98**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	433	8.58	2	433	8.57
171.swim	2	1192	6.04	2	1192	6.04
172.mgrid	2	946	4.42	2	926	4.51
173.applu	2	1026	4.75	2	1026	4.75
177.mesa	2	270	12.0	2	273	11.9
178.galgel	2	1193	5.64	2	1175	5.72
179.art	2	1092	5.52	2	1081	5.58
183.quake	2	672	4.49	2	534	5.65
187.facerec	2	694	6.35	2	645	6.84
188.amp	2	849	6.01	2	831	6.14
189.lucas	2	758	6.12	2	757	6.13
191.fma3d	2	825	5.91	2	825	5.91
200.sixtrack	2	649	3.93	2	633	4.03
301.apsi	2	806	7.48	2	783	7.70

### Hardware

CPU: Pentium III  
CPU MHz: 1000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 16KB(I) + 16KB(D) on chip  
Secondary Cache: 256KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2 x 256MB PC800 RDRAM  
Disk Subsystem: 1 x 18GB Quantum Atlas 10K U160  
Other Hardware:

### Software

Operating System: Windows NT 4.0 (SP5)  
Compiler: Intel C and Fortran Compiler 5.0 for Windows NT  
Microsoft Visual C++ 6.0 (for libraries)  
MicroQuill SmartHeap Library 5.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

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FEEDBACK-DIRECTED OPTIMIZATION
+FDO:          PASS1= -Qprof_gen  PASS2=-Qprof_use
BASE TUNING
C/F77/F90:     -Qipo -QxK -O3 +FDO
PORTABILITY
178.galgel:    -FI /F32000000
PEAK TUNING
168.wupwise:   -Qipo -QxK -O3 +FDO
171.swim:      -Qipo -QxK -O3 +FDO
172.mgrid:     -Qipo -QaxK -O3 +FDO
173.applu:     -Qipo -QxK -O3 +FDO
177.mesa:      -Qipo -QxK -Oa -O3 +FDO shlW32M.lib
178.galgel:    -Qipo -QxK -O3 +FDO shlW32M.lib
179.art:       -Qipo -QxK -O3 -Oa +FDO shlW32M.lib
183.quake:    -Qipo -QxK -Qrcd -Oa +FDO shlW32M.lib
187.facerec:   -Qipo -QxK -O3 +FDO shlW32M.lib
188.amp:       -Qipo -QxK -O3 -Oa +FDO

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## Notes/Tuning Information (Continued)

189.lucas: -Qipo -QxK -O3 +FDO shlw32M.lib  
191.fma3d: -Qipo -QxK -O3 +FDO  
200.sixtrack: -Qipo -QxK +FDO  
301.apsi: -Qipo -QxK +FDO

### LIBRARIES

shlw32M.lib: MicroQuill SmartHeap Library 5.0  
www.microquill.com

Library ordering for 178.galgel, 187.facerec and 189.lucas (include SmartHeap correctly with default libs): LIBS=libIEPCF90.lib libintrins.lib libF90.lib libqwind.lib libm.lib shlw32M.lib LIBC.lib libirc.lib OLDNAMES.lib