



# CFP2000 Result

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**Dell**  
Precision WorkStation 530 (1.70 GHz Xeon)

SPECfp\_rate2000 = 10.8  
SPECfp\_rate\_base2000 = 10.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	207	17.9	2	208	17.9
171.swim	2	482	14.9	2	482	14.9
172.mgrid	2	416	10.0	2	415	10.1
173.applu	2	422	11.5	2	405	12.0
177.mesa	2	223	14.6	2	220	14.8
178.galgel	2	668	10.1	2	668	10.1
179.art	2	1012	5.96	2	1005	6.00
183.quake	2	222	13.6	2	177	17.1
187.facerec	2	412	10.7	2	401	11.0
188.amp	2	702	7.27	2	698	7.31
189.lucas	2	320	14.5	2	323	14.4
191.fma3d	2	577	8.44	2	574	8.48
200.sixtrack	2	380	6.71	2	375	6.81
301.apsi	2	703	8.58	2	701	8.60

**Hardware**

CPU: Intel Xeon  
CPU MHz: 1700  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1, 2  
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 256MB PC800 ECC RDRAM  
Disk Subsystem: 1 x 36GB Quantum Atlas 10K II U160  
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
```