



# CFP2000 Result

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**Dell**  
Precision WorkStation 530 (1.40 GHz Xeon)

SPECfp\_rate2000 = 9.97  
SPECfp\_rate\_base2000 = 9.70

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	233	16.0	2	233	15.9
171.swim	2	485	14.8	2	485	14.8
172.mgrid	2	427	9.78	2	422	9.90
173.applu	2	439	11.1	2	426	11.4
177.mesa	2	273	11.9	2	268	12.1
178.galgel	2	709	9.48	2	709	9.49
179.art	2	1022	5.90	2	1016	5.94
183.quake	2	230	13.1	2	187	16.1
187.facerec	2	473	9.32	2	461	9.56
188.amp	2	745	6.86	2	739	6.90
189.lucas	2	342	13.6	2	339	13.7
191.fma3d	2	641	7.60	2	607	8.03
200.sixtrack	2	459	5.56	2	452	5.64
301.apsi	2	759	7.95	2	755	7.99

### Hardware

CPU: Intel Xeon  
CPU MHz: 1400  
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
```