



# CFP2000 Result

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**Dell**  
Precision WorkStation 530 (2.8 GHz Xeon)

SPECfp\_rate2000 = 14.7  
SPECfp\_rate\_base2000 = 14.4

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Sep-2002 | Hardware Avail: Sep-2002 | Software Avail: Jun-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	153	24.3	2	147	25.2
171.swim	2	466	15.4	2	467	15.4
172.mgrid	2	390	10.7	2	390	10.7
173.applu	2	380	12.8	2	368	13.2
177.mesa	2	138	23.5	2	137	23.7
178.galgel	2	355	19.0	2	354	19.0
179.art	2	863	6.99	2	863	6.99
183.quake	2	200	15.0	2	162	18.6
187.facerec	2	214	20.6	2	216	20.4
188.amp	2	561	9.10	2	559	9.13
189.lucas	2	295	15.7	2	295	15.7
191.fma3d	2	312	15.6	2	312	15.6
200.sixtrack	2	218	11.7	2	215	11.9
301.apsi	2	474	12.7	2	472	12.8

### Hardware

CPU: Intel Xeon (400 MHz system bus)  
CPU MHz: 2800  
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: 512KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2 x 256MB PC800-45 ECC RDRAM  
Disk Subsystem: 1 x 18GB Fujitsu Limited 10K U160  
Other Hardware:

### Software

Operating System: Windows XP Professional  
Compiler: Intel C++ and Fortran Compiler 6.0 (020423Z)  
Microsoft Visual Studio .NET (7.0.9466)  
MicroQuill SmartHeap Library 6.01  
File System: NTFS  
System State: Default

## Notes/Tuning Information

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

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## Notes/Tuning Information (Continued)

189.lucas: -Qipo -QaxW  
191.fma3d: -Qipo -QxW -O3 +FDO  
200.sixtrack: -Qipo -QxW +FDO  
301.apsi: -Qipo -QxW +FDO  
EXTRA LIBRARIES  
shlw32M.lib: MicroQuill SmartHeap Library 6.01  
www.microquill.com