



# CFP2000 Result

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**Dell**  
Precision WorkStation 650 (3.06 GHz Xeon)

SPECfp\_rate2000 = 12.3  
SPECfp\_rate\_base2000 = 12.2

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Mar-2002 | Hardware Avail: Mar-2003 | Software Avail: Jun-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	110	16.9	1	106	17.5
171.swim	1	197	18.2	1	198	18.2
172.mgrid	1	185	11.3	1	185	11.3
173.applu	1	199	12.2	1	196	12.5
177.mesa	1	118	13.7	1	118	13.8
178.galgel	1	190	17.7	1	189	17.8
179.art	1	381	7.92	1	379	7.97
183.quake	1	96.6	15.6	1	94.0	16.0
187.facerec	1	146	15.1	1	146	15.1
188.amp	1	339	7.52	1	340	7.52
189.lucas	1	149	15.6	1	147	15.8
191.fma3d	1	195	12.5	1	195	12.5
200.sixtrack	1	194	6.59	1	191	6.67
301.apsi	1	339	8.90	1	336	8.98

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
CPU MHz: 3066  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 4 x 512MB PC2100 CL2-2-2 DDR ECC SDRAM  
Disk Subsystem: 1 x 36GB Seagate 15K U320  
Other Hardware:

### Software

Operating System: Windows XP Professional (SP1)  
Compiler: Intel C++ and Fortran Compiler 6.0 (020613Z)  
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
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