



# CFP2000 Result

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## Dell

Precision Workstation 650 (3.20 GHz Xeon, 1MB L3 Cache)

SPECfp\_rate2000 = 18.6

SPECfp\_rate\_base2000 = 18.5

SPEC license #: 55 | Tested by: Dell Inc., Round Rock, TX | Test date: Jan-2004 | Hardware Avail: Oct-2003 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	117	31.7	2	117	31.7
171.swim	2	402	17.9	2	402	17.9
172.mgrid	2	271	15.4	2	271	15.4
173.applu	2	359	13.6	2	356	13.7
177.mesa	2	101	32.1	2	101	32.1
178.galgel	2	229	29.4	2	229	29.4
179.art	2	627	9.62	2	594	10.1
183.quake	2	165	18.3	2	165	18.3
187.facerec	2	167	26.5	2	165	26.7
188.amp	2	322	15.8	2	322	15.8
189.lucas	2	307	15.1	2	308	15.1
191.fma3d	2	258	18.9	2	258	18.9
200.sixtrack	2	182	14.0	2	182	14.0
301.apsi	2	351	17.2	2	351	17.2

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 1024KB(I+D) on chip  
Other Cache: N/A  
Memory: 4 x 512MB ECC CL2-2-2 PC2100 DDR SDRAM  
Disk Subsystem: 1 x 36GB U320 SCSI, 10K RPM  
Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)  
Intel Fortran Compiler 8.0 (20031229Z)  
Microsoft Visual Studio .NET (7.0.9466)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### PORTABILITY

178.galgel: -FI /F32000000

### FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=YES

FDO: PASS1= -Qprof\_gen PASS2=-Qprof\_use

### BASE TUNING

C/F77/F90: -QxN -Qipo -O3 +FDO

### PEAK TUNING

168.wupwise: basepeak=yes

171.swim: basepeak=yes

172.mgrid: basepeak=yes

173.applu: -QxN -Qipo -O3 -Qscalar\_rep- -Qauto +FDO

177.mesa: -QxN -Qipo -O3 -Oa +FDO

178.galgel: basepeak=yes

179.art: -Qipo -Oa -Qunroll4 -Zp4

183.quake: -QxN -Qipo -O3 -Oa -Qrcd +FDO

187.facerec: -QaxN -Qipo -O3 -Qunroll1 -Qscalar\_rep- +FDO



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## Notes/Tuning Information (Continued)

188. ammp: basepeak=yes  
189. lucas: -QaxN -Qipo -O3  
191. fma3d: basepeak=yes  
200. sixtrack: basepeak=yes  
301. psi: basepeak=yes

NOTES  
Hyper-Threading Technology not enabled.