



# CFP2000 Result

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## Dell

Precision Workstation 650 (3.20 GHz Xeon, 2MB L3 Cache)

SPECfp\_rate2000 = 22.1

SPECfp\_rate\_base2000 = 22.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	117	31.6	2	117	31.6
171.swim	2	408	17.6	2	408	17.6
172.mgrid	2	254	16.4	2	254	16.4
173.applu	2	366	13.3	2	363	13.4
177.mesa	2	103	31.6	2	103	31.7
178.galgel	2	130	51.9	2	130	51.9
179.art	2	222	27.2	2	206	29.2
183.quake	2	161	18.7	2	161	18.7
187.facerec	2	154	28.6	2	154	28.7
188.amp	2	204	25.0	2	204	25.0
189.lucas	2	306	15.2	2	307	15.1
191.fma3d	2	260	18.8	2	260	18.8
200.sixtrack	2	178	14.3	2	178	14.3
301.apsi	2	294	20.5	2	294	20.5

### 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: 2048KB(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

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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.ammf: basepeak=yes  
189.lucas: -QaxN -Qipo -O3  
191.fma3d: basepeak=yes  
200.sixtrack: basepeak=yes  
301.apsi: basepeak=yes

NOTES  
Hyper-Threading Technology not enabled.