



CFP2000 Result

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Dell

Precision Workstation 650 (3.2 GHz Xeon, 1MB L3 Cache)

SPECfp_rate2000 = 14.1

SPECfp_rate_base2000 = 13.9

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Sep-2003 | Hardware Avail: Oct-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	99.6	18.6	1	100.0	18.6
171.swim	1	198	18.1	1	198	18.1
172.mgrid	1	154	13.5	1	154	13.5
173.applu	1	192	12.7	1	192	12.7
177.mesa	1	106	15.3	1	105	15.5
178.galgel	1	144	23.4	1	144	23.3
179.art	1	289	10.5	1	279	10.8
183.quake	1	96.0	15.7	1	91.6	16.5
187.facerec	1	127	17.3	1	124	17.8
188.amp	1	254	10.1	1	252	10.1
189.lucas	1	148	15.7	1	146	15.8
191.fma3d	1	176	13.8	1	176	13.8
200.sixtrack	1	186	6.85	1	183	6.99
301.apsi	1	259	11.6	1	259	11.6

Hardware

CPU: Intel Xeon (533 MHz system bus)
CPU MHz: 3200
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: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 4 x 512MB PC2100 ECC DDR SDRAM CL2-2-2
Disk Subsystem: 1 x 36GB 10K RPM U320 SCSI
Other Hardware:

Software

Operating System: Windows XP Professional SP1
Compiler: Intel C++ Compiler 7.1 (20030402Z)
Intel Fortran Compiler 7.1 (20030402Z)
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: -Qipo -QxW -O3 +FDO

PEAK TUNING

168.wupwise: -Qipo -QxW -O3 +FDO

171.swim: -Qipo -QxW -O3 +FDO

172.mgrid: -Qipo -QaxW -O3 +FDO

173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO

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

178.galgel: -Qipo -QxW -O3 +FDO

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

183.quake: -Qipo -QxW -Oa -Qrcd +FDO

187.facerec: -O3 -QaxW -Qipo -Qunroll1 -Qscalar_rep- +FDO



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Notes/Tuning Information (Continued)

```
188. ammp: -Oa -QxW
189. lucas: -Qipo -QaxW
191. fma3d: basepeak=yes
200. sixtrack: -Qipo -QxW +FDO
301. apsi: -Qipo -QxW -O3 +FDO
```

1 CPU disabled via BIOS setting.