



# CINT2000 Result

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**Dell**  
Precision WorkStation 650 (2.66 GHz Xeon)

SPECint2000 = **1033**  
SPECint\_base2000 = **988**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	140	999	127	1102	
175.vpr	1400	243	577	224	624	
176.gcc	1100	94.2	1168	93.1	1181	
181.mcf	1800	250	721	249	724	
186.crafty	1000	95.9	1043	95.6	1046	
197.parser	1800	190	948	185	975	
252.eon	1300	111	1170	94.5	1376	
253.perlbnk	1800	147	1226	147	1226	
254.gap	1100	86.3	1274	83.5	1317	
255.vortex	1900	127	1495	117	1626	
256.bzip2	1500	196	765	194	774	
300.twolf	3000	348	862	340	883	

### Hardware

CPU: Intel Xeon (533 MHz system bus)  
CPU MHz: 2666  
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++ 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

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca -F10000000  
186.crafty: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL -MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### FEEDBACK-DIRECTED OPTIMIZATION

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

### BASE TUNING

C: -Qipo -QxW +FDO shlW32M.lib  
C++: -QxW -GX -GR +FDO

### PEAK TUNING

164.gzip: -Qipo -QxW -O3 +FDO  
175.vpr: -Qipo -QxW -O3 +FDO  
176.gcc: -Qipo -QxW -O3 +FDO  
181.mcf: -Qipo -QxW -O3 +FDO shlW32M.lib  
186.crafty: -Qipo -QxW -O3 +FDO  
197.parser: -Qipo -QxW -O3 +FDO  
252.eon: -Qipo -QxW -O3 +FDO  
253.perlbnk: -Qipo -QxW +FDO shlW32M.lib  
254.gap: -Qipo -QaxW -O3 +FDO



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## Notes/Tuning Information (Continued)

```
255.vortex: -Qwp_ipo -QxW -O3 -Oa +FDO
256.bzip2:  -Qipo -QxW -O3
300.twolf:  -Qipo -QxW -O3 -Oa shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 6.01
              www.microquill.com
```