



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (2.8 GHz Xeon)

SPECint2000 = **957**  
SPECint\_base2000 = **921**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	500 1000 1500 2000			
164.gzip	1400	137	1023	124	1130	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	279	502	259	541	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	108	1021	107	1031	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	304	592	305	591	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	95.0	1052	95.2	1050	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	205	878	199	905	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	107	1213	91.1	1427	[Bar chart showing ratio bars for 252.eon]			
253.perlbmk	1800	146	1230	146	1230	[Bar chart showing ratio bars for 253.perlbmk]			
254.gap	1100	91.5	1202	87.9	1251	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	136	1399	133	1424	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	213	704	212	708	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	410	733	400	750	[Bar chart showing ratio bars for 300.twolf]			

### Hardware

CPU: Intel Xeon (400 MHz system bus)  
 CPU MHz: 2800  
 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: 2 x 256MB PC800-45 ECC RDRAM  
 Disk Subsystem: 1 x 18GB Fujitsu Limited 10K U160  
 Other Hardware:

### Software

Operating System: Windows XP Professional  
 Compiler: Intel C++ Compiler 6.0 (020423Z)  
 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.perlbmk: -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.perlbmk: -Qipo -QxW +FDO shlW32M.lib  
 254.gap: -Qipo -QaxW -O3 +FDO



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## Notes/Tuning Information (Continued)

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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
```