



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (1.70 GHz Xeon)

SPECint\_rate2000 = 12.1  
SPECint\_rate\_base2000 = 11.8

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: May-2001 | Hardware Avail: May-2001 | Software Avail: Oct-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	239	13.6	2	228	14.3
175.vpr	2	503	6.46	2	480	6.76
176.gcc	2	232	11.0	2	233	11.0
181.mcf	2	546	7.65	2	546	7.65
186.crafy	2	185	12.6	2	183	12.7
197.parser	2	374	11.2	2	375	11.1
252.eon	2	173	17.4	2	145	20.8
253.perlbnk	2	239	17.4	2	238	17.5
254.gap	2	157	16.2	2	157	16.3
255.vortex	2	252	17.5	2	240	18.4
256.bzip2	2	376	9.25	2	360	9.67
300.twolf	2	811	8.58	2	814	8.55

### Hardware

CPU: Intel Xeon  
CPU MHz: 1700  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1, 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 256KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2 x 256MB PC800 ECC RDRAM  
Disk Subsystem: 1 x 36GB Quantum Atlas 10K II U160  
Other Hardware:

### Software

Operating System: Windows 2000 (SP1)  
Compiler: Intel C++ Compiler 5.0 Build 001004  
Microsoft Visual C++ 6.0 (for libraries)  
MicroQuill SmartHeap Library 5.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

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

### FEEDBACK-DIRECTED OPTIMIZATION

FDO2: PASS1= -Qprof\_gen PASS2= -Qprof\_use

### BASE TUNING

C: -Qipo +FDO2 -QxW shlw32M.lib  
C++: -Qipo -QxW -GX -GR

### PEAK TUNING

164.gzip: -Qipo +FDO2 -QxW -Oi- -Oa shlw32M.lib  
175.vpr: -Qwp\_ipo +FDO2 -QxW  
176.gcc: -Qipo +FDO2 -QxW shlw32M.lib  
181.mcf: -Qipo +FDO2 -QxW shlw32M.lib  
186.crafy: -Qipo +FDO2 -QxW -Oa shlw32M.lib  
197.parser: -Qipo +FDO2 -QxW shlw32M.lib  
252.eon: -Qipo +FDO2 -QxW -Qrcd  
253.perlbnk: -Qipo +FDO2 -QxW shlw32M.lib  
254.gap: -Qipo +FDO2 -QaxM



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## Notes/Tuning Information (Continued)

```
255.vortex: -Qwp_ipo +FD02 -QxW -Oa shlw32M.lib
256.bzip2:  -Qipo +FD02 -QaxK -Oa -G7
300.twolf:  -Qipo +FD02 -QxW shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 5.0
              www.microquill.com
```