



# CINT2000 Result

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**Dell**  
Precision WorkStation 530 (1.5 GHz Xeon)

SPECint\_rate2000 = 11.3  
SPECint\_rate\_base2000 = 11.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	262	12.4	2	259	12.6
175.vpr	2	527	6.16	2	499	6.51
176.gcc	2	246	10.4	2	245	10.4
181.mcf	2	544	7.67	2	545	7.67
186.crafy	2	204	11.4	2	220	10.5
197.parser	2	384	10.9	2	382	10.9
252.eon	2	189	15.9	2	162	18.6
253.perlbnk	2	269	15.5	2	269	15.5
254.gap	2	173	14.7	2	169	15.1
255.vortex	2	268	16.5	2	255	17.3
256.bzip2	2	387	9.00	2	388	8.97
300.twolf	2	857	8.12	2	859	8.10

### Hardware

CPU: Intel Xeon  
CPU MHz: 1500  
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 9GB Fujitsu 10K U160  
Other Hardware:

### Software

Operating System: Windows 2000 Professional (SP2)  
Compiler: Intel C++ Compiler 5.0.1 (010727Z)  
Microsoft Visual C++ 6.0 (SP5)  
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

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

### BASE TUNING

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

### PEAK TUNING

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



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## Notes/Tuning Information (Continued)

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