



# CINT2000 Result

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**Dell**  
Precision WorkStation 330 (1.70 GHz P4)

SPECint2000 = **591**  
SPECint\_base2000 = **574**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	223	627	222	630	
175.vpr	1400	440	318	417	336	
176.gcc	1100	176	624	176	626	
181.mcf	1800	364	494	364	494	
186.crafty	1000	181	553	180	557	
197.parser	1800	348	517	349	516	
252.eon	1300	173	749	145	895	
253.perlbmk	1800	229	785	230	783	
254.gap	1100	140	783	138	795	
255.vortex	1900	237	801	225	846	
256.bzip2	1500	331	452	316	475	
300.twolf	3000	697	430	699	429	

### Hardware

CPU: Intel Pentium 4  
 CPU MHz: 1700  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 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 128MB PC800 ECC RDRAM  
 Disk Subsystem: 1 x 20GB Maxtor 7.2K ATA/5  
 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.perlbmk: -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.crafty: -Qipo +FDO2 -QxW -Oa shlw32M.lib  
 197.parser: -Qipo +FDO2 -QxW shlw32M.lib  
 252.eon: -Qipo +FDO2 -QxW -Qrcd  
 253.perlbmk: -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
```