



# CINT2000 Result

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**Dell**  
**Precision WorkStation 330 (2.0 GHz P4)**

SPECint2000 = **659**  
SPECint\_base2000 = **636**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	195	718	191	731	
175.vpr	1400	420	334	386	362	
176.gcc	1100	159	692	158	695	
181.mcf	1800	352	511	349	515	
186.crafty	1000	155	644	157	635	
197.parser	1800	310	580	310	581	
252.eon	1300	148	880	124	1050	
253.perlbmk	1800	199	905	198	907	
254.gap	1100	124	884	121	912	
255.vortex	1900	225	845	208	914	
256.bzip2	1500	298	503	287	523	
300.twolf	3000	647	464	646	465	

### Hardware

CPU: Intel Pentium 4  
 CPU MHz: 2000  
 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 (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

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 shlw32M.lib  
 175.vpr: -Qwp\_ipo +FDO -QxW  
 176.gcc: -Qipo +FDO -QxW shlw32M.lib  
 181.mcf: -Qipo +FDO -QxW shlw32M.lib  
 186.crafty: -Qipo +FDO -QxW -Oa shlw32M.lib  
 197.parser: -Qipo +FDO -QxW shlw32M.lib  
 252.eon: -Qipo +FDO -QxW -Qrcd  
 253.perlbmk: -Qipo +FDO -QxW shlw32M.lib  
 254.gap: -Qipo +FDO -QaxM



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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 -QaxK -Oa -G7
300.twolf:  -Qipo +FDO -QxW shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 5.0
              www.microquill.com
```