



# CINT2000 Result

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**Dell**  
**Precision WorkStation 330 (1.50 GHz P4)**

**SPECint\_rate2000 = 6.07**  
**SPECint\_rate\_base2000 = 5.94**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	523	6.21	2	518	6.27
175.vpr	2	961	3.38	2	960	3.38
176.gcc	2	390	6.55	2	387	6.59
181.mcf	2	771	5.41	2	771	5.42
186.crafy	2	411	5.65	2	411	5.65
197.parser	2	776	5.38	2	776	5.38
252.eon	2	407	7.42	2	336	8.98
253.perlbnk	2	519	8.05	2	520	8.03
254.gap	2	327	7.81	2	327	7.80
255.vortex	2	526	8.38	2	506	8.71
256.bzip2	2	730	4.77	2	720	4.83
300.twolf	2	1518	4.59	2	1521	4.58

### Hardware

CPU: Pentium 4  
CPU MHz: 1500  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12K(I) uOps + 8KB(D) on chip  
Secondary Cache: 256KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 2 x 256MB PC800 RDRAM  
Disk Subsystem: 1 x 40GB Maxtor 7.2K ATA/5  
Other Hardware:

### Software

Operating System: Windows NT 4.0 (SP5)  
Compiler: Intel C/C++ Compiler 5.0 for Windows NT  
Microsoft Visual C++ 6.0 (for libraries)  
MicroQuill SmartHeap Library 5.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### FEEDBACK-DIRECTED OPTIMIZATION

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

### BASE TUNING

C: -QxW -Qipo shlW32M.lib +FDO

C++: -QxW -Qipo -GX -GR

### 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

### PEAK TUNING

164.zip: -QxW -Qipo +FDO shlW32M.lib

175.vpr: -QxW -Qipo +FDO shlW32M.lib

176.gcc: -QxW -Qipo +FDO shlW32M.lib

181.mcf: -QxW -Qipo +FDO shlW32M.lib

186.crafy: -QxW -Qipo +FDO shlW32M.lib

197.parser: -QxW -Qipo +FDO shlW32M.lib

252.eon: -QxW -Qipo +FDO

253.perlbnk: -QxW -Qipo +FDO shlW32M.lib

254.gap: -QxW -Qipo +FDO shlW32M.lib



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## Notes/Tuning Information (Continued)

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