



CINT2000 Result

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Dell
Precision WorkStation 340 (2.8 GHz P4)

SPECint2000 = 1010
SPECint_base2000 = 970

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Sep-2002 | Hardware Avail: Aug-2002 | Software Avail: Jun-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	136	1027	122	1147	
175.vpr	1400	259	540	239	587	
176.gcc	1100	96.7	1138	96.2	1144	
181.mcf	1800	277	649	277	650	
186.crafty	1000	93.5	1069	93.1	1074	
197.parser	1800	195	923	190	949	
252.eon	1300	106	1223	90.3	1439	
253.perlbmk	1800	144	1251	144	1250	
254.gap	1100	86.4	1274	84.1	1308	
255.vortex	1900	129	1473	125	1524	
256.bzip2	1500	199	754	197	762	
300.twolf	3000	380	789	371	808	

Hardware

CPU: Intel Pentium 4 (533 MHz system bus)
 CPU MHz: 2800
 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: 512KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2 x 256MB PC800-40 ECC RDRAM
 Disk Subsystem: 1 x 10GB Maxtor 7.2K ATA/100
 Other Hardware:

Software

Operating System: Windows XP Professional
 Compiler: Intel C++ Compiler 6.0 (020423Z)
 Microsoft Visual Studio .NET (7.0.9466)
 MicroQuill SmartHeap Library 6.01
 File System: NTFS
 System State: Default

Notes/Tuning Information

PORTABILITY FLAGS

```
176.gcc: -Dalloca=_alloca -F10000000
186.crafty: -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 -QxW +FDO shlW32M.lib
C++: -QxW -GX -GR +FDO
```

PEAK TUNING

```
164.gzip: -Qipo -QxW -O3 +FDO
175.vpr: -Qipo -QxW -O3 +FDO
176.gcc: -Qipo -QxW -O3 +FDO
181.mcf: -Qipo -QxW -O3 +FDO shlW32M.lib
186.crafty: -Qipo -QxW -O3 +FDO
197.parser: -Qipo -QxW -O3 +FDO
252.eon: -Qipo -QxW -O3 +FDO
253.perlbmk: -Qipo -QxW +FDO shlW32M.lib
254.gap: -Qipo -QaxW -O3 +FDO
```



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Notes/Tuning Information (Continued)

```
255.vortex: -Qwp_ipo -QxW -O3 -Oa +FDO
256.bzip2:  -Qipo -QxW -O3
300.twolf:  -Qipo -QxW -O3 -Oa shlw32M.lib
EXTRA LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 6.01
              www.microquill.com
```