



# CINT2000 Result

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**Dell**  
Precision Workstation 690 (Intel Xeon 5160, 3.00 GHz)

SPECint\_rate2000 = 63.4  
SPECint\_rate\_base2000 = 63.3

SPEC license #: 55 | Tested by: Dell, Inc., Round Rock, TX | Test date: Oct-2006 | Hardware Avail: Nov-2006 | Software Avail: Jan-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	76.1	42.7	2	76.5	42.4
175.vpr	2	72.1	45.1	2	70.9	45.8
176.gcc	2	39.0	65.5	2	39.0	65.5
181.mcf	2	76.7	54.5	2	76.7	54.5
186.crafty	2	36.7	63.2	2	36.8	63.0
197.parser	2	81.2	51.4	2	80.4	51.9
252.eon	2	33.3	90.5	2	33.3	90.7
253.perlbnk	2	50.8	82.2	2	50.8	82.2
254.gap	2	40.7	62.6	2	39.5	64.7
255.vortex	2	42.2	105	2	42.2	105
256.bzip2	2	73.2	47.6	2	75.6	46.0
300.twolf	2	87.6	79.4	2	87.6	79.4

### Hardware

CPU: Quad-Core Intel Xeon processor 5160 (1333 MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 4 MB I+D on chip per chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 GB (8 x 1 GB 667 MHz CL5 FB-DIMM DDR2 SDRAM)  
Disk Subsystem: 1 x 73GB SAS 10K RPM  
Other Hardware:

### Software

Operating System: Windows XP Professional x64 Edition  
Compiler: Intel C++ Compiler 9.1 for IA32(20060519Z)  
Microsoft Visual Studio .NET 2003(7.1.3088)  
MicroQuill SmartHeap Library 8.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### GENERAL

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

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafty: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### BASE TUNING

C: -fast +FDO shlw32m.lib  
C++: -fast -Qcxx\_features +FDO

### PEAK TUNING

164.gzip: -fast +FDO  
175.vpr: -fast +FDO  
176.gcc: basepeak=yes  
181.mcf: basepeak=yes  
186.crafty: -fast -Oa +FDO shlw32m.lib  
197.parser: -fast +FDO  
252.eon: -fast +FDO  
253.perlbnk: basepeak=yes



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## Notes/Tuning Information (Continued)

```
254.gap:      -fast +FDO
255.vortex    basepeak=yes
256.bzip2:    -fast -Qunroll11 -Oa +FDO
300.twolf:    basepeak=yes
BIOS Settings
Snoop Filter OFF
Adjacent Cache Line Prefetch ON
```