



# CINT2000 Result

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## Dell

Precision Workstation 690 (Intel Xeon processor 5110, 1.60 GHz)

SPECint\_rate2000 = 36.2

SPECint\_rate\_base2000 = 36.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	143	22.7	2	143	22.7
175.vpr	2	121	26.8	2	119	27.2
176.gcc	2	63.9	39.9	2	63.9	39.9
181.mcf	2	105	39.8	2	105	39.8
186.crafty	2	68.6	33.8	2	68.7	33.8
197.parser	2	145	28.8	2	144	28.9
252.eon	2	62.2	48.5	2	62.2	48.5
253.perlbnk	2	93.0	44.9	2	93.0	44.9
254.gap	2	69.8	36.5	2	68.9	37.1
255.vortex	2	73.1	60.3	2	73.1	60.3
256.bzip2	2	136	25.6	2	136	25.6
300.twolf	2	164	42.5	2	164	42.5

### Hardware

CPU: Intel Xeon processor 5110 (1066 MHz system bus)  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
 Secondary Cache: 4096KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8 x 512MB 533MHz ECC CL4 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