



# CINT2000 Result

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## Dell

PowerEdge 6800 (Intel Xeon processor 7140M, 3.40GHz)

SPECint\_rate2000 = 162

SPECint\_rate\_base2000 = 161

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	195	133	16	197	132
175.vpr	16	246	106	16	235	110
176.gcc	16	98.4	207	16	98.4	207
181.mcf	16	196	171	16	196	171
186.crafty	16	161	115	16	162	115
197.parser	16	206	162	16	205	163
252.eon	16	106	228	16	105	230
253.perlbnk	16	193	173	16	193	173
254.gap	16	159	128	16	158	129
255.vortex	16	143	246	16	143	246
256.bzip2	16	178	156	16	181	154
300.twolf	16	331	168	16	331	168

### Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2,3,4  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip, per core  
Secondary Cache: 1024KB(I+D) on chip, per core  
L3 Cache: 16384KB on chip, per chip  
Other Cache: N/A  
Memory: 8x2GB (dual-ranked) ECC 400MHz DDR2 SDRAM  
Disk Subsystem: 1 x 73GB SCSI 15000 RPM  
Other Hardware: None

### Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)  
Compiler: Intel C/C++ Compiler 9.1 for IA32(20060323Z)  
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
```

This result was measured on the Dell PowerEdge 6850.  
The PowerEdge 6800 and PowerEdge 6850 are electronically equivalent.

The binaries were built on a system running Windows XP Professional (32-bit) with an Intel processor supporting SSE3 (allows -QxP).