



# CINT2000 Result

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## Bull

NovaScale T840 (3.00 GHz, Intel Xeon processor 5160)

SPECint\_rate2000 = 115

SPECint\_rate\_base2000 = 115

SPEC license #: 20 | Tested by: Bull | Test date: Feb-2007 | Hardware Avail: Jul-2006 | Software Avail: Dec-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	78.5	82.8	4	78.5	82.8
175.vpr	4	80.7	80.5	4	79.3	82.0
176.gcc	4	48.4	105	4	48.4	105
181.mcf	4	97.8	85.4	4	97.8	85.4
186.crafty	4	36.7	127	4	36.7	127
197.parser	4	84.0	99.5	4	83.6	99.9
252.eon	4	33.3	181	4	33.3	181
253.perlbnk	4	52.0	161	4	52.0	161
254.gap	4	52.5	97.2	4	52.3	97.6
255.vortex	4	46.4	190	4	46.4	190
256.bzip2	4	83.9	82.9	4	83.9	82.9
300.twolf	4	85.9	162	4	85.9	162

### Hardware

CPU: Intel Xeon Processor 5160 (1333 MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1 to 2  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip per core  
Secondary Cache: 4096KB(I+D) on chip per chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 1GB (667 MHz ECC CL5 DDR2 FB-DIMM)  
Disk Subsystem: 3x73GB SCSI 15000 rpm  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise X64 Edition  
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1.033  
- Build 20061103Z Package ID: W\_CC\_C\_9.1.033  
Microsoft Visual Studio .NET 2003 (for libraries)  
MicroQuill SmartHeap Library 8.0 (shlW32M.lib)  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### 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

### Feedback optimization:

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

### Baseline Tuning Flags:

for C programs:  
-fast +FDO shlW32M.lib  
for C++ program 252.eon:  
-fast -Qcxx\_features +FDO

### Peak Tuning Flags:

164.gzip: basepeak=yes  
175.vpr: -fast +FDO ONESTEP=yes  
176.gcc: basepeak=yes  
181.mcf: basepeak=yes



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## Notes/Tuning Information (Continued)

186.crafty: basepeak=yes  
197.parser: -fast +FDO ONESTEP=yes  
252.eon: basepeak=yes  
253.perlbnk: basepeak=yes  
254.gap: -fast +FDO ONESTEP=yes  
255.vortex: basepeak=yes  
256.bzip2: basepeak=yes  
300.twolf: basepeak=yes

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