



# CINT2000 Result

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**Bull**  
NovaScale T840 (3.00 GHz, Intel Xeon 5160)

SPECint2000 = 2965  
SPECint\_base2000 = 2959

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	76.5	1830	76.5	1830	
175.vpr	1400	66.0	2122	64.5	2169	
176.gcc	1100	36.8	2993	36.8	2993	
181.mcf	1800	45.4	3967	45.4	3967	
186.crafty	1000	36.6	2729	36.6	2729	
197.parser	1800	74.4	2420	74.1	2428	
252.eon	1300	33.3	3902	33.3	3902	
253.perlbmk	1800	49.4	3644	49.4	3644	
254.gap	1100	39.3	2800	39.3	2800	
255.vortex	1900	39.5	4816	39.5	4816	
256.bzip2	1500	68.1	2202	68.1	2202	
300.twolf	3000	85.7	3499	85.7	3499	

### Hardware

CPU: Intel Xeon Processor 5160 (1333 MHz bus)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 to 2  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip per chip  
 Secondary Cache: 4096KB(I+D) on chip per core  
 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.perlbmk: -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

### Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

For information about Bull please see:  
<http://www.bull.com>