



# CINT2000 Result

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## Bull

NovaScale B260 (Intel Xeon processor 5150, 2.66 GHz)

SPECint2000 = 2696

SPECint\_base2000 = 2692

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	85.0	1646	85.6	1636	
175.vpr	1400	71.2	1966	69.9	2004	
176.gcc	1100	40.5	2719	40.5	2719	
181.mcf	1800	46.6	3866	46.6	3866	
186.crafty	1000	41.1	2434	41.1	2434	
197.parser	1800	82.3	2187	82.1	2193	
252.eon	1300	37.4	3477	37.4	3477	
253.perlbmk	1800	55.8	3223	55.8	3223	
254.gap	1100	43.0	2557	42.9	2562	
255.vortex	1900	42.6	4459	42.6	4459	
256.bzip2	1500	74.8	2007	74.8	2007	
300.twolf	3000	96.3	3115	96.3	3115	

### Hardware

CPU: Intel Xeon Processor 5150 (2.66 GHz, 4MB L2, 1333MHz bus)  
 CPU MHz: 2660  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 to 2 chips  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
 Secondary Cache: 4096KB(I+D) on chip per chip (shared by 2 cores)  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)  
 Disk Subsystem: 1x73GB SAS 10000 rpm  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits), Service Pack 1  
 Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1, - 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 ONESTEP=yes shlW32M.lib  
 for C++ program 252.eon:  
 -fast -Qcxx\_features +FDO ONESTEP=yes

### Peak Tuning Flags:

164.gzip: -fast +FDO ONESTEP=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>