



# CINT2000 Result

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## Bull

NovaScale R460 (Intel Xeon processor 5160, 3.00 GHz)

SPECint2000 = 2953

SPECint\_base2000 = 2949

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	75.8	1846	75.8	1846	
175.vpr	1400	66.6	2101	65.4	2140	
176.gcc	1100	36.4	3024	36.4	3024	
181.mcf	1800	46.6	3863	46.6	3863	
186.crafty	1000	36.6	2731	36.6	2731	
197.parser	1800	74.4	2421	74.2	2427	
252.eon	1300	33.5	3882	33.5	3882	
253.perlbmk	1800	50.1	3596	50.1	3596	
254.gap	1100	39.0	2819	39.2	2808	
255.vortex	1900	40.0	4746	40.0	4746	
256.bzip2	1500	68.1	2201	68.1	2201	
300.twolf	3000	85.6	3506	85.6	3506	

### Hardware

CPU: Intel Xeon Processor 5160 (1332MHz 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 core  
 Secondary Cache: 4096KB(I+D) on chip per chip (shared)  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 12GB (12x1GB 533MHz ECC CL4 DDR2 FB-DIMM)  
 Disk Subsystem: 2x73GB SAS 15000 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 20060927Z Package ID: W\_CC\_C\_9.1.032  
 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: 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>