



# CINT2000 Result

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## Bull

NovaScale B260 (Intel Xeon processor 5110, 1.60 GHz)

SPECint2000 = 1685

SPECint\_base2000 = 1683

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	141	995	142	989	
175.vpr	1400	113	1239	111	1261	
176.gcc	1100	58.1	1893	58.1	1893	
181.mcf	1800	65.5	2747	65.5	2747	
186.crafty	1000	68.5	1459	68.5	1459	
197.parser	1800	136	1328	135	1331	
252.eon	1300	62.4	2084	62.4	2084	
253.perlbmk	1800	93.4	1927	93.4	1927	
254.gap	1100	68.2	1613	68.1	1615	
255.vortex	1900	68.1	2790	68.1	2790	
256.bzip2	1500	121	1235	121	1235	
300.twolf	3000	161	1858	161	1858	

### Hardware

CPU: Intel Xeon Processor 5110 (1.60 GHz, 4MB L2, 1066MHz bus)  
CPU MHz: 1600  
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>