



# CINT2000 Result

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## Bull

NovaScale R440 (Intel Xeon processor 5130, 2.00 GHz)

SPECint\_rate2000 = 85.7

SPECint\_rate\_base2000 = 85.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	115	56.5	4	115	56.5
175.vpr	4	106	61.5	4	104	62.6
176.gcc	4	57.0	89.5	4	57.0	89.5
181.mcf	4	108	77.0	4	108	77.0
186.crafty	4	55.0	84.4	4	55.0	84.4
197.parser	4	118	71.1	4	117	71.1
252.eon	4	50.1	120	4	50.1	120
253.perlbnk	4	77.5	108	4	77.5	108
254.gap	4	58.3	87.5	4	59.3	86.1
255.vortex	4	61.8	143	4	61.8	143
256.bzip2	4	111	62.9	4	111	62.9
300.twolf	4	129	108	4	129	108

### Hardware

CPU: Intel Xeon Processor 5130 (1332MHz bus)  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 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)  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8GB (8x1GB 533MHz ECC CL4 DDR2 FB-DIMM)  
 Disk Subsystem: 2x36GB 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.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 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

For information about Bull please see:  
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