



# CINT2000 Result

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## Bull

NovaScale R460 (Intel Xeon processor 5130, 2.00 GHz)

SPECint\_rate2000 = 85.9

SPECint\_rate\_base2000 = 85.8

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

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 4           | 115          | 56.5       | 4      | 115     | 56.5  |
| 175.vpr     | 4           | 105          | 61.7       | 4      | 104     | 62.7  |
| 176.gcc     | 4           | 57.3         | 89.2       | 4      | 57.3    | 89.2  |
| 181.mcf     | 4           | 108          | 77.5       | 4      | 108     | 77.5  |
| 186.crafty  | 4           | 55.0         | 84.4       | 4      | 55.0    | 84.4  |
| 197.parser  | 4           | 118          | 70.6       | 4      | 117     | 71.3  |
| 252.eon     | 4           | 50.4         | 120        | 4      | 50.4    | 120   |
| 253.perlbnk | 4           | 76.3         | 109        | 4      | 76.3    | 109   |
| 254.gap     | 4           | 58.2         | 87.7       | 4      | 58.7    | 86.9  |
| 255.vortex  | 4           | 61.6         | 143        | 4      | 61.6    | 143   |
| 256.bzip2   | 4           | 111          | 62.6       | 4      | 111     | 62.6  |
| 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:  
<http://www.bull.com>