



# CINT2000 Result

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## Bull

NovaScale R440 (Intel Xeon processor 5110, 1.60 GHz)

SPECint\_rate2000 = 70.7

SPECint\_rate\_base2000 = 70.6

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           | 144          | 45.2       | 4      | 144     | 45.2  |
| 175.vpr     | 4           | 127          | 51.3       | 4      | 124     | 52.2  |
| 176.gcc     | 4           | 63.0         | 81.1       | 4      | 63.0    | 81.1  |
| 181.mcf     | 4           | 126          | 66.2       | 4      | 126     | 66.2  |
| 186.crafty  | 4           | 68.7         | 67.5       | 4      | 68.7    | 67.5  |
| 197.parser  | 4           | 145          | 57.7       | 4      | 145     | 57.6  |
| 252.eon     | 4           | 62.8         | 96.0       | 4      | 62.8    | 96.0  |
| 253.perlbnk | 4           | 96.0         | 87.0       | 4      | 96.0    | 87.0  |
| 254.gap     | 4           | 71.9         | 71.0       | 4      | 71.5    | 71.4  |
| 255.vortex  | 4           | 73.7         | 120        | 4      | 73.7    | 120   |
| 256.bzip2   | 4           | 134          | 51.9       | 4      | 134     | 51.9  |
| 300.twolf   | 4           | 162          | 86.0       | 4      | 162     | 86.0  |

### Hardware

CPU: Intel Xeon Processor 5110 (1066MHz bus)  
 CPU MHz: 1600  
 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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