# CINT2000 Result

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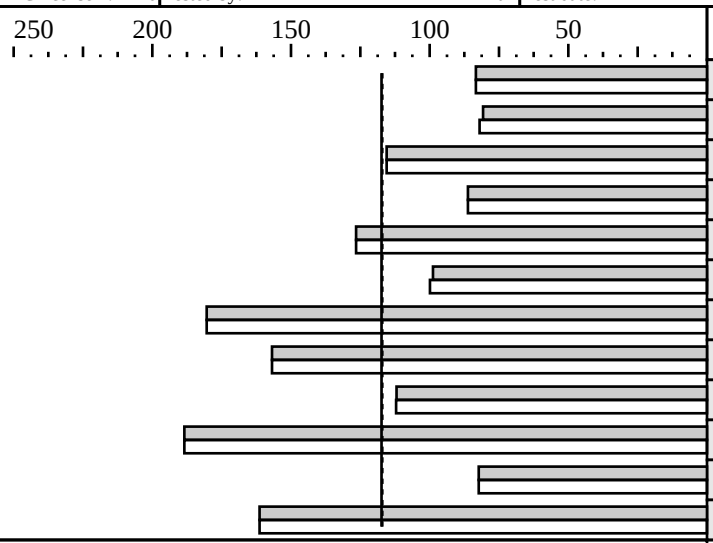
## Bull

NovaScale R440 (Intel Xeon processor 5160, 3.00 GHz)

SPECint_rate2000 = 117

SPECint_rate_base2000 = 117

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 | 78.0 | 83.3 | 4 | 78.0 | 83.3 |
| 175.vpr | 4 | 80.5 | 80.7 | 4 | 79.2 | 82.0 |
| 176.gcc | 4 | 44.2 | 116 | 4 | 44.2 | 116 |
| 181.mcf | 4 | 96.9 | 86.2 | 4 | 96.9 | 86.2 |
| 186.crafty | 4 | 36.7 | 127 | 4 | 36.7 | 127 |
| 197.parser | 4 | 84.5 | 98.8 | 4 | 83.6 | 99.9 |
| 252.eon | 4 | 33.4 | 180 | 4 | 33.4 | 180 |
| 253.perlbmk | 4 | 53.3 | 157 | 4 | 53.3 | 157 |
| 254.gap | 4 | 45.6 | 112 | 4 | 45.5 | 112 |
| 255.vortex | 4 | 46.8 | 188 | 4 | 46.8 | 188 |
| 256.bzip2 | 4 | 84.6 | 82.3 | 4 | 84.6 | 82.3 |
| 300.twolf | 4 | 86.3 | 161 | 4 | 86.3 | 161 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5160 (1332MHz bus) |
| CPU MHz: | 3000 |
| 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 Pack1 |
| Compiler: | Intel(R) C++ Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_CC_C_9.1.032<br>Microsoft Visual Studio .NET 2003 (for libraries)<br>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.perlbmk:  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
```