



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**Bull**  
NovaScale Blade 2021 (3.8 GHz Xeon)

SPECint\_rate2000 = 43.5  
SPECint\_rate\_base2000 = 43.3

SPEC license #: 20 | Tested by: Bull | Test date: May-2006 | Hardware Avail: Dec-2005 | Software Avail: Jun-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	174	37.3	4	173	37.5
175.vpr	4	232	28.0	4	227	28.7
176.gcc	4	87.0	58.7	4	87.0	58.7
181.mcf	4	342	24.4	4	342	24.4
186.crafty	4	141	32.9	4	140	33.2
197.parser	4	196	42.6	4	196	42.6
252.eon	4	94.1	64.1	4	94.1	64.1
253.perlbnk	4	171	49.0	4	169	49.3
254.gap	4	110	46.3	4	110	46.3
255.vortex	4	121	72.7	4	121	72.7
256.bzip2	4	190	36.7	4	190	36.6
300.twolf	4	257	54.1	4	257	54.1

### Hardware

CPU: Intel Xeon Processor (3.8GHz Xeon, 2MB L2, 800MHz bus)  
CPU MHz: 3800  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1 to 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8GB (2GB DIMMx4, 2-way interleaved DDR2-400, PC2-3200 CL3)  
Disk Subsystem: 2x73GB SCSI 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 20060323Z Package ID: W\_CC\_P\_9.1.022  
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: -fast +FDO ONESTEP=yes
175.vpr: -fast +FDO ONESTEP=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
```



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**Bull**  
NovaScale Blade 2021 (3.8 GHz Xeon)

SPECint\_rate2000 = 43.5  
SPECint\_rate\_base2000 = 43.3

SPEC license #: 20 | Tested by: Bull | Test date: May-2006 | Hardware Avail: Dec-2005 | Software Avail: Jun-2006

## Notes/Tuning Information (Continued)

```
186.crafty: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: -fast -Oa -Qunroll1 +FDO ONESTEP=yes shlw32M.lib
300.twolf: basepeak=yes
```

For information about Bull please see:  
<http://www.bull.com>