



CINT2000 Result

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Bull
NovaScale Blade 2021 (3.8 GHz Xeon)

SPECint2000 = 1856
SPECint_base2000 = 1854

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	110	1275	111	1267	[Bar chart showing ratio]			
175.vpr	1400	111	1256	110	1276	[Bar chart showing ratio]			
176.gcc	1100	49.3	2230	49.3	2230	[Bar chart showing ratio]			
181.mcf	1800	93.0	1936	93.0	1936	[Bar chart showing ratio]			
186.crafty	1000	69.3	1442	69.3	1442	[Bar chart showing ratio]			
197.parser	1800	116	1555	116	1557	[Bar chart showing ratio]			
252.eon	1300	50.3	2582	50.3	2582	[Bar chart showing ratio]			
253.perlbmk	1800	79.4	2266	79.4	2266	[Bar chart showing ratio]			
254.gap	1100	52.4	2098	52.0	2113	[Bar chart showing ratio]			
255.vortex	1900	59.5	3191	59.5	3191	[Bar chart showing ratio]			
256.bzip2	1500	110	1368	110	1368	[Bar chart showing ratio]			
300.twolf	3000	152	1979	152	1979	[Bar chart showing ratio]			

Hardware

CPU: Intel Xeon Processor (3.8GHz Xeon, 2MB L2, 800MHz bus)
 CPU MHz: 3800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
 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.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: -fast +FDO ONESTEP=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
```

Other Configuration Notes

```
/NUMPROC=1 flag was added to boot.ini to invoke
uniprocessor environment
```

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