



CINT2000 Result

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Bull

NovaScale B280 (Intel Xeon processor 5110, 1.60 GHz)

SPECint_rate2000 = 70.3

SPECint_rate_base2000 = 70.3

SPEC license #: 20 | Tested by: Bull | Test date: Dec-2006 | Hardware Avail: Jan-2007 | Software Avail: Dec-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	143	45.3	4	144	45.2
175.vpr	4	128	50.6	4	126	51.5
176.gcc	4	63.1	80.9	4	63.1	80.9
181.mcf	4	129	64.7	4	129	64.7
186.crafty	4	68.5	67.7	4	68.5	67.7
197.parser	4	146	57.1	4	145	57.5
252.eon	4	62.4	96.6	4	62.4	96.6
253.perlbnk	4	95.4	87.6	4	95.4	87.6
254.gap	4	71.4	71.4	4	72.3	70.6
255.vortex	4	75.1	117	4	75.1	117
256.bzip2	4	137	50.9	4	137	50.9
300.twolf	4	162	86.1	4	162	86.1

Hardware

CPU: Intel Xeon Processor 5110 (1.60 GHz, 4MB L2, 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 by 2 cores)
L3 Cache: N/A
Other Cache: N/A
Memory: 8GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 1x73GB SAS 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 20061103Z Package ID: W_CC_C_9.1.033
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
```



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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

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