



CINT2000 Result

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Bull

NovaScale R460 (Intel Xeon processor 5160, 3.00 GHz)

SPECint_rate2000 = 117

SPECint_rate_base2000 = 117

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	77.9	83.3	4	77.9	83.3
175.vpr	4	82.3	78.9	4	80.4	80.8
176.gcc	4	44.2	116	4	44.2	116
181.mcf	4	99.6	83.8	4	99.6	83.8
186.crafty	4	36.7	127	4	36.7	127
197.parser	4	84.3	99.0	4	84.0	99.4
252.eon	4	33.5	180	4	33.5	180
253.perlbnk	4	52.5	159	4	52.5	159
254.gap	4	46.0	111	4	45.5	112
255.vortex	4	47.1	187	4	47.1	187
256.bzip2	4	84.8	82.0	4	84.8	82.0
300.twolf	4	86.5	161	4	86.5	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
 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: 12GB (12x1GB 533MHz ECC CL4 DDR2 FB-DIMM)
 Disk Subsystem: 2x73GB 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:
<http://www.bull.com>