



CINT2000 Result

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Bull

NovaScale R460 (Intel Xeon processor 5130, 2.00 GHz)

SPECint2000 = 2075

SPECint_base2000 = 2072

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	113	1237	113	1237	
175.vpr	1400	92.0	1522	90.2	1553	
176.gcc	1100	49.5	2222	49.5	2222	
181.mcf	1800	57.5	3132	57.5	3132	
186.crafty	1000	55.0	1819	55.0	1819	
197.parser	1800	109	1653	109	1658	
252.eon	1300	50.3	2584	50.3	2584	
253.perlbnk	1800	74.2	2426	74.2	2426	
254.gap	1100	53.7	2049	53.9	2042	
255.vortex	1900	55.1	3450	55.1	3450	
256.bzip2	1500	97.7	1536	97.7	1536	
300.twolf	3000	129	2334	129	2334	

Hardware

CPU: Intel Xeon Processor 5130 (1332MHz bus)
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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: 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

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>