



CINT2000 Result

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Bull

NovaScale R440 (Intel Xeon processor 5110, 1.60 GHz)

SPECint2000 = 1698

SPECint_base2000 = 1695

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	142	989	142	989	
175.vpr	1400	111	1260	109	1286	
176.gcc	1100	57.6	1910	57.6	1910	
181.mcf	1800	66.1	2725	66.1	2725	
186.crafty	1000	68.7	1455	68.7	1455	
197.parser	1800	135	1333	135	1337	
252.eon	1300	63.0	2064	63.0	2064	
253.perlbmk	1800	92.3	1950	92.3	1950	
254.gap	1100	65.9	1670	66.2	1663	
255.vortex	1900	66.3	2867	66.3	2867	
256.bzip2	1500	120	1248	120	1248	
300.twolf	3000	162	1857	162	1857	

Hardware

CPU: Intel Xeon Processor 5110 (1066MHz bus)
 CPU MHz: 1600
 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: 2x36GB 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.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: 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.perlbmk: 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>