



CINT2000 Result

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Bull
NovaScale 4040 (1600MHz)

SPECint_rate2000 = 66.4
SPECint_rate_base2000 = 65.8

SPEC license #: 20 | Tested by: Allaoua Ait Eldjoudi | Test date: Nov-2004 | Hardware Avail: Nov-2004 | Software Avail: Nov-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	4	135	48.0	4	135	48.0
175.vpr	4	119	54.5	4	114	57.0
176.gcc	4	70.5	72.4	4	70.1	72.8
181.mcf	4	66.5	126	4	62.4	134
186.crafty	4	78.7	58.9	4	77.9	59.5
197.parser	4	164	50.9	4	164	50.9
252.eon	4	66.1	91.3	4	66.6	90.6
253.perlbnk	4	135	61.8	4	135	61.8
254.gap	4	133	38.3	4	133	38.4
255.vortex	4	85.8	103	4	86.1	102
256.bzip2	4	118	59.1	4	118	59.1
300.twolf	4	198	70.2	4	198	70.2

Hardware

CPU: Itanium 2 processor 1600 MHz
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 1 to 4
 Parallel: No
 Primary Cache: 16KBI + 16KBD on chip, per core
 Secondary Cache: 256KB(I+D) on chip, per core
 L3 Cache: 9.0MB (I+D) on chip, per core
 Other Cache: N/A
 Memory: 8 GB (16 * 512MB DIMMs DDR 266)
 Disk Subsystem: 1 SCSI Maxtor 10krpm 36 GB
 Other Hardware:

Software

Operating System: Bull Advanced Server 2 V3 (linux kernel 2.6.4, glibc 2.2.4)
 Compiler: Intel(R) C++ Compiler for Linux 8.1 (Build 20041021)
 File System: MicroQuill SmartHeap Library 7.01 (www.microquill.com)
 System State: ext3
 Multi User

Notes/Tuning Information

+FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:

C programs: -fast -auto_ilp32 +FDO
 C++ programs: -fast -ansi_alias +FDO
 Extra Library: libsmartheap64.a (smh)

Portability Flags:

176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_alloca -D_LIBC
 186.crafty: -DLINUX_i386
 252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST -DFMAX_IS_DOUBLE
 253.perlbnk: -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL
 -DSPEC_CPU2000_LINUX_IA64 -DSPEC_CPU2000_GLIBC22
 254.gap: -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG
 -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
 255.vortex: -DSPEC_CPU2000_LP64

Peak optimization flags:

C programs default: -fast -auto_ilp32 +FDO
 C++ programs default: -fast -ansi_alias +FDO



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Notes/Tuning Information (Continued)

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164.gzip: -fast -auto_ilp32 + FDO + smh
186.crafty: -O2 -ipo -auto_ilp32 + FDO + smh
197.parser: -fast -auto_ilp32 + FDO + smh
253.perlbnk: -fast -auto_ilp32 + FDO + smh
250.vortex: -fast -auto_ilp32 + FDO + smh
256.bzip2: -fast -auto_ilp32 + FDO + smh
300.twolf: -fast -auto_ilp32 + FDO + smh
```

Processes were bound to CPUs using pexec