CINT2000 Result

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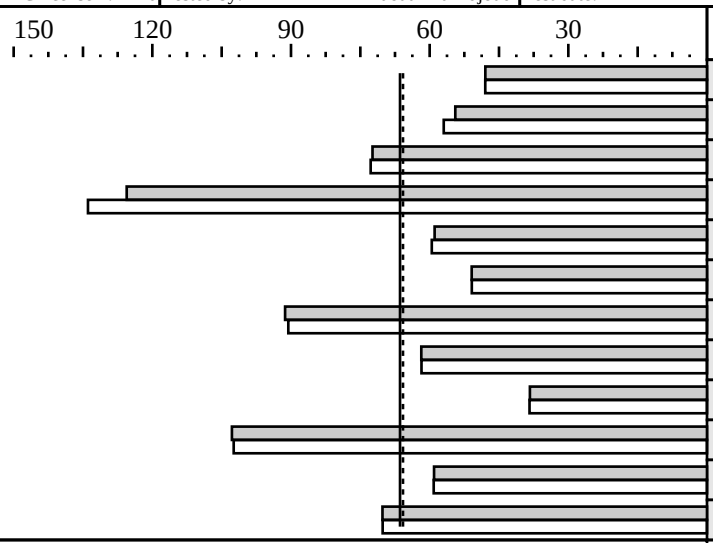
Bull
NovaScale 4040 (1600MHz)

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.gzip	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.perlbmk	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) MicroQuill SmartHeap Library 7.01 (www.microquill.com)
File System:	ext3
System State:	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.perlbmk: -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)

```
        164.gzip: -fast -auto_ilp32 + FDO + smh
        186.crafty: -O2 -ipo -auto_ilp32 + FDO + smh
        197.parser:-fast -auto_ilp32 + FDO + smh
        253.perlbmk: -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
```