CINT2000 Result

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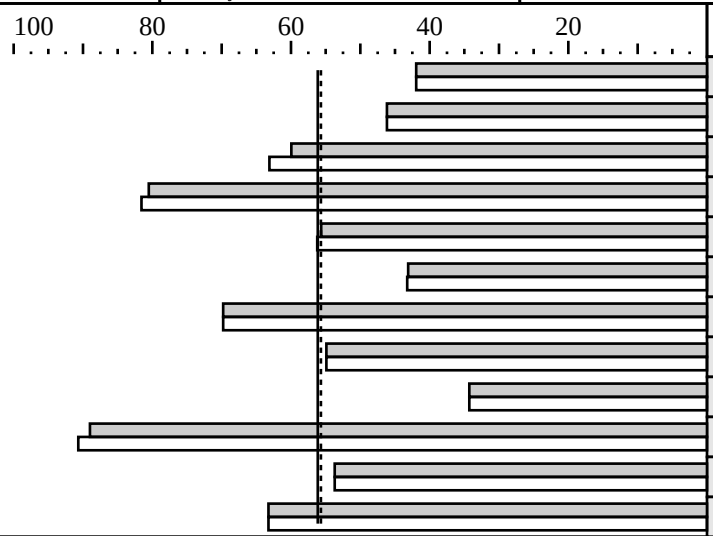
Bull
NovaScale 4040 (1500MHz)

SPECint_rate2000 = 56.1

SPECint_rate_base2000 = 55.7

SPEC license #: 20 | Tested by: Allaoua | Test date: Nov-2003 | Hardware Avail: Sep-2003 | Software Avail: Jan-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	155	41.9	4	155	41.9
175.vpr	4	141	46.2	4	141	46.2
176.gcc	4	85.1	59.9	4	80.9	63.1
181.mcf	4	104	80.5	4	102	81.6
186.crafty	4	83.4	55.6	4	82.5	56.2
197.parser	4	194	43.1	4	193	43.2
252.eon	4	86.4	69.8	4	86.4	69.8
253.perlbmk	4	152	54.9	4	152	54.9
254.gap	4	149	34.3	4	149	34.3
255.vortex	4	99.1	89.0	4	97.2	90.7
256.bzip2	4	130	53.7	4	130	53.7
300.twolf	4	220	63.2	4	220	63.2

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
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
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB (I+D) on chip
Other Cache:	N/A
Memory:	4 GB (16 * 256 MB DIMMs)
Disk Subsystem:	1 SCSI Maxtor 10krpm 36GB
Other Hardware:	

Software

Operating System:	Bull Advanced Server 3 (Linux 64 bits)
Compiler:	Intel(R) C++ Compiler for Linux 8 (Build 20030916) MicroQuill SmartHeap Library 7.01 (www.microquill.com)
File System:	ext2
System State:	Multiuser

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=_builtin_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:  (default)
  C programs:       -fast -auto_ilp32 +FDO
  C++ programs:     -fast -ansi_alias +FDO
No Extra Library
```

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Notes/Tuning Information (Continued)

```
164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: +FDO -ipo -O2 -static -auto_ilp32
186.crafty: +FDO -ipo -O2 -static -auto_ilp32 + smh
197.parser: +FDO -fast -auto_ilp32
252.eon: basepeak=yes
253.perlbmk: basepeak=yes
254.gap: basepeak=yes
255.vortex: +FDO -ipo -O2 -static -auto_ilp32 + smh
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```