CINT2000 Result

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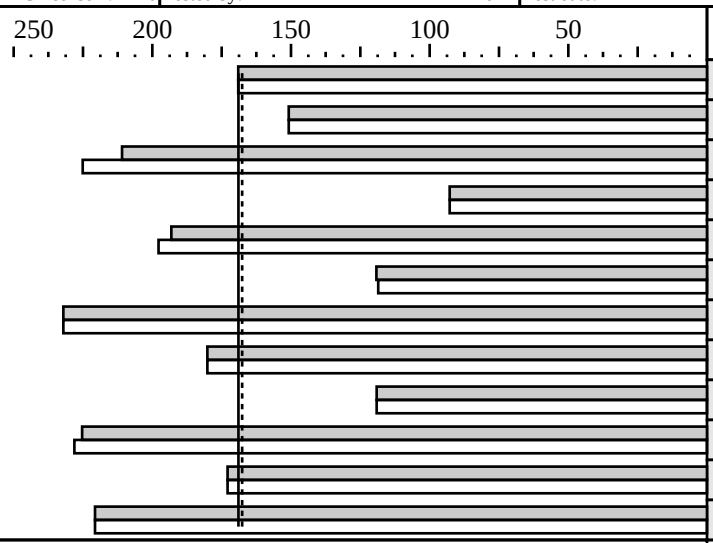
Bull
NovaScale 5160 (1500MHz)

SPECint_rate2000 = 169

SPECint_rate_base2000 = 168

SPEC license #: 20 | Tested by: JFL | Test date: Jun-2003 | Hardware Avail: Sep-2003 | Software Avail: Sep-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	154	169	16	154	169
175.vpr	16	172	151	16	172	151
176.gcc	16	96.8	211	16	90.7	225
181.mcf	16	360	92.8	16	360	92.8
186.crafty	16	96.1	193	16	93.9	198
197.parser	16	280	119	16	282	119
252.eon	16	104	232	16	104	232
253.perlbmk	16	185	180	16	185	180
254.gap	16	171	119	16	171	119
255.vortex	16	157	225	16	155	228
256.bzip2	16	161	173	16	161	173
300.twolf	16	252	221	16	252	221

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	4 to 16
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB (I+D) off chip
Other Cache:	N/A
Memory:	64 GB (4 *16 * 1GB DIMMs)
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks
Other Hardware:	

Software

Operating System:	Linux 64 bit : Red Hat Advanced Server 2.1 + Bull expansion Pack
Compiler:	Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)
File System:	ext2
System State:	Multi User

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen  PASS2=-prof_use

Baseline optimization flags:
  C programs:       -ipo -O3 +FDO
  C++ programs:     -ipo -O2 +FDO -ansi_alias

Portability Flags:
  176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
  186.crafty: -DLINUX_i386
  252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
  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:
164.gzip: basepeak=yes
175.vpr: basepeak=yes
```

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Notes/Tuning Information (Continued)

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