CINT2000 Result

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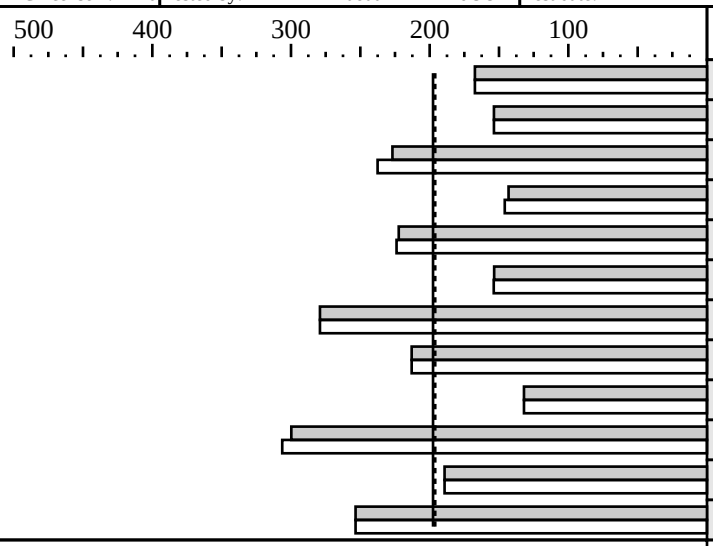
Bull
NovaScale 5160 (1500MHz)

SPECint_rate2000 = 198

SPECint_rate_base2000 = 196

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	155	167	16	155	167
175.vpr	16	169	154	16	169	154
176.gcc	16	90.0	227	16	85.9	238
181.mcf	16	233	143	16	229	146
186.crafty	16	83.5	222	16	82.9	224
197.parser	16	218	153	16	217	154
252.eon	16	86.4	279	16	86.4	279
253.perlbmk	16	157	213	16	157	213
254.gap	16	155	132	16	155	132
255.vortex	16	118	300	16	115	306
256.bzip2	16	147	189	16	147	189
300.twolf	16	220	253	16	220	253

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) on 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:	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
```