CINT2000 Result

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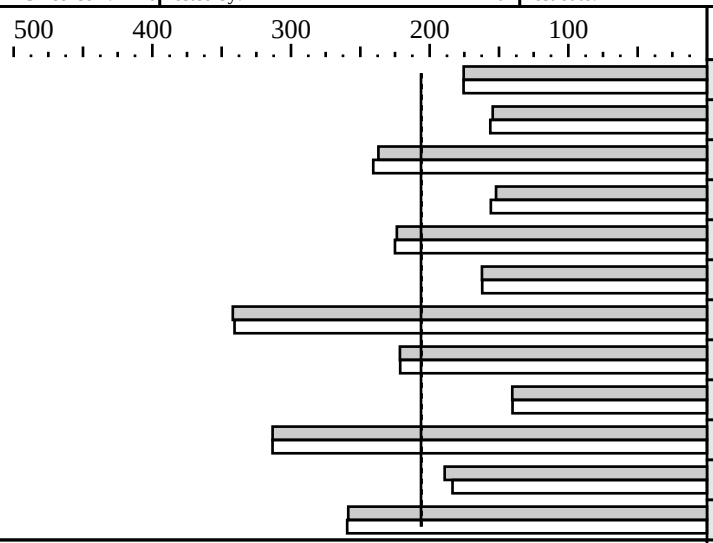
Bull
NovaScale 6160 (1500MHz)

SPECint_rate2000 = 206

SPECint_rate_base2000 = 206

SPEC license #: 20 | Tested by: Bull | Test date: Feb-2005 | Hardware Avail: Nov-2004 | Software Avail: Nov-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	148	175	16	148	176
175.vpr	16	168	155	16	166	156
176.gcc	16	86.2	237	16	84.8	241
181.mcf	16	220	152	16	214	156
186.crafty	16	83.0	224	16	82.5	225
197.parser	16	206	162	16	206	162
252.eon	16	70.6	342	16	70.8	341
253.perlbmk	16	151	221	16	151	221
254.gap	16	145	140	16	146	140
255.vortex	16	113	313	16	113	313
256.bzip2	16	147	189	16	152	184
300.twolf	16	215	259	16	215	259

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, per core
Secondary Cache:	256KB(I+D) on chip, per core
L3 Cache:	4.0 MB (I+D) on chip, per core
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 2 V3 (linux kernel 2.6.4, glibc 2.2.4)
Compiler:	Intel(R) C++ Compiler for Linux 8.1 (Build 20041123) 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:  (default)
  C programs:       -fast -auto_ilp32 +FDO
```

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Notes/Tuning Information (Continued)

```
    C++ programs:      -fast -ansi_alias +FDO

 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
```