CINT2000 Result

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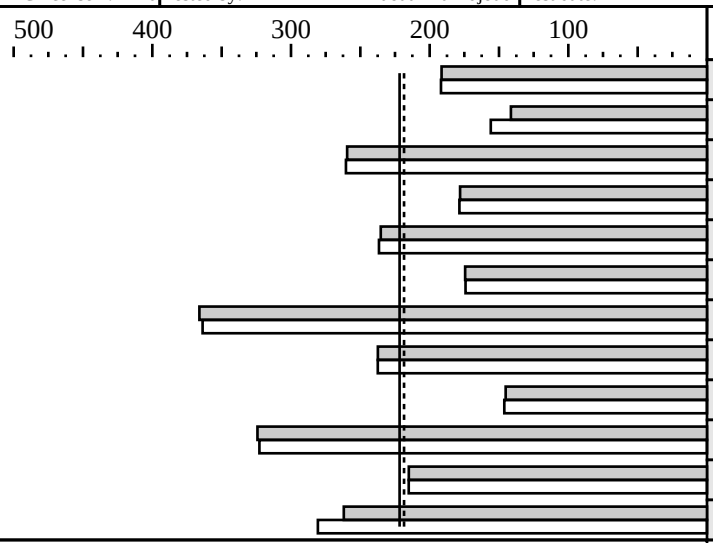
Bull
NovaScale 6160 (1600MHz)

SPECint_rate2000 = 222

SPECint_rate_base2000 = 218

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	16	136	191	16	135	192
175.vpr	16	184	141	16	167	156
176.gcc	16	78.7	260	16	78.4	260
181.mcf	16	188	178	16	187	179
186.crafty	16	78.9	235	16	78.5	237
197.parser	16	192	174	16	192	174
252.eon	16	65.9	366	16	66.3	364
253.perlbmk	16	141	237	16	141	237
254.gap	16	141	145	16	140	146
255.vortex	16	109	324	16	109	323
256.bzip2	16	129	215	16	129	215
300.twolf	16	213	262	16	198	281

Hardware

CPU:	Itanium 2 processor 1600 MHz
CPU MHz:	1600
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:	9.0MB (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 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:       -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
```