CINT2000 Result

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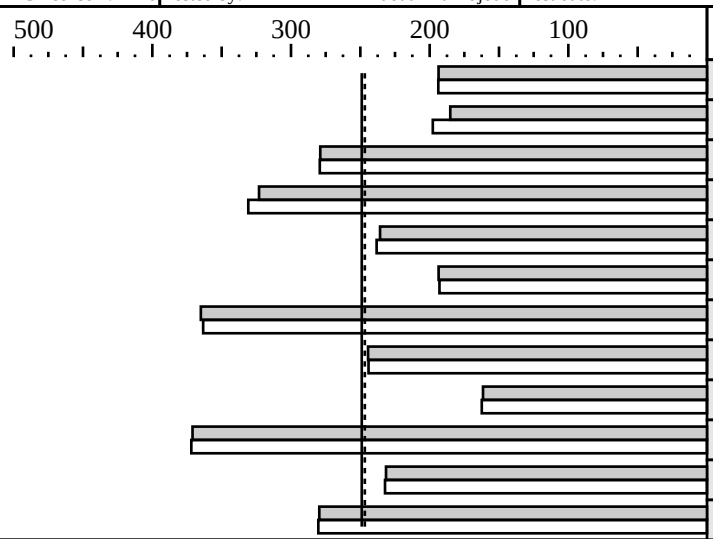
Bull
NovaScale 6320 HPC 16way (1600MHz)

SPECint_rate2000 = 249

SPECint_rate_base2000 = 247

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	134	194	16	134	194
175.vpr	16	140	185	16	131	198
176.gcc	16	73.2	279	16	73.1	279
181.mcf	16	103	323	16	101	331
186.crafty	16	78.7	236	16	77.9	238
197.parser	16	173	194	16	173	193
252.eon	16	66.1	365	16	66.4	363
253.perlbmk	16	137	244	16	137	244
254.gap	16	126	162	16	126	162
255.vortex	16	95.0	371	16	94.8	372
256.bzip2	16	120	231	16	120	232
300.twolf	16	199	280	16	199	280

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:	128 GB (8 * 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 default:       -fast -auto_ilp32 +FDO
```

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Notes/Tuning Information (Continued)

```
    C++ programs default:     -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

  32 CPU machine with only 16 CPU enabled
  16 CPU disabled by service processor before booting
  Processes were bound to CPUs using pexec
```