CINT2000 Result

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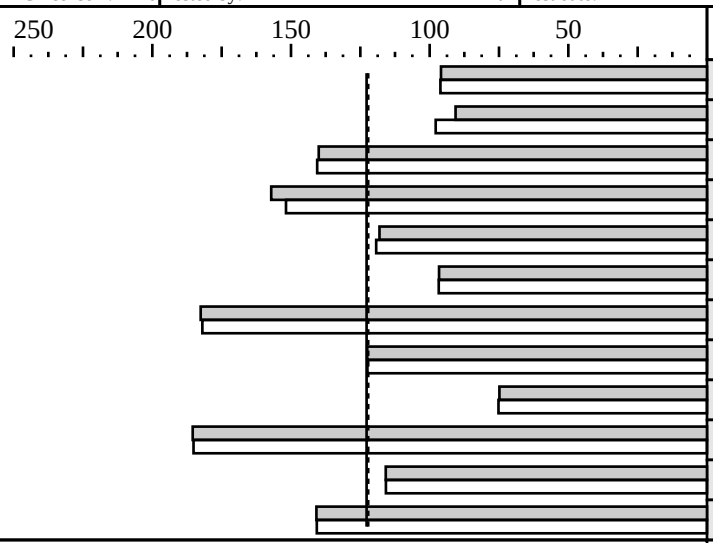
Bull
NovaScale 6085 8 way (1600MHz)

SPECint_rate2000 = 123

SPECint_rate_base2000 = 122

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	135	95.9	8	135	96.1
175.vpr	8	143	90.7	8	133	97.8
176.gcc	8	72.9	140	8	72.6	141
181.mcf	8	106	157	8	110	152
186.crafty	8	78.6	118	8	77.8	119
197.parser	8	173	96.6	8	173	96.7
252.eon	8	66.1	183	8	66.3	182
253.perlbmk	8	136	123	8	136	122
254.gap	8	136	74.8	8	136	75.2
255.vortex	8	95.1	185	8	95.2	185
256.bzip2	8	120	116	8	120	116
300.twolf	8	198	141	8	198	141

Hardware

CPU:	Itanium 2 processor 1600 MHz
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	4 to 8
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:	32 GB (2 * 16 * 1GB DIMMs DDR 266)
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 20041121) 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

 Processes were bound to CPUs using pexec
```