CINT2000 Result

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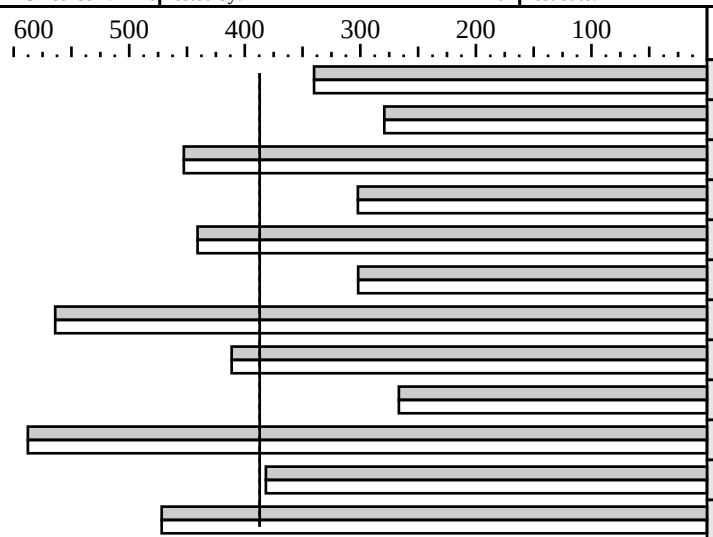
Bull
NovaScale 6320 (1500MHz)

SPECint_rate2000 = 387

SPECint_rate_base2000 = 387

SPEC license #: 20 | Tested by: Bull | Test date: May-2004 | Hardware Avail: Jul-2004 | Software Avail: Jun-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	32	153	340	32	153	340
175.vpr	32	186	279	32	186	279
176.gcc	32	90.2	453	32	90.2	453
181.mcf	32	221	302	32	221	302
186.crafty	32	84.2	441	32	84.2	441
197.parser	32	221	302	32	221	302
252.eon	32	85.6	564	32	85.6	564
253.perlbmk	32	162	411	32	162	411
254.gap	32	153	267	32	153	267
255.vortex	32	120	588	32	120	588
256.bzip2	32	146	382	32	146	382
300.twolf	32	236	472	32	236	472

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	4 to 32
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip per core
Secondary Cache:	256KB(I+D) on chip per core
L3 Cache:	6MB (I+D) on chip per core
Other Cache:	N/A
Memory:	128 GB (8 * 16 * 1GB DIMMs DDR 266)
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks + 1 SR0812 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 8.0 (Build 20040416) MicroQuill SmartHeap Library 7.01 (www.microquill.com)
File System:	ext2
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)

Processes were bound to CPUs using pexec

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
```

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Notes/Tuning Information (Continued)

```
  255.vortex: -DSPEC_CPU2000_LP64
basepeak=yes
```