CINT2000 Result

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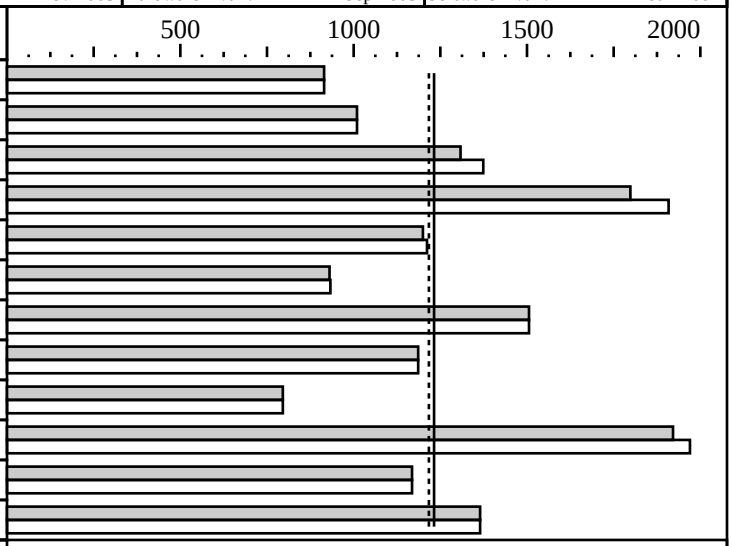
Bull
NovaScale 4040 (1500MHz)

SPECint2000 = 1232

SPECint_base2000 = 1217

SPEC license #: 20 | Tested by: Allaoua | Test date: Nov-2003 | Hardware Avail: Sep-2003 | Software Avail: Jan-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	153	915	153	915
175.vpr	1400	139	1010	139	1010
176.gcc	1100	84.1	1308	80.1	1374
181.mcf	1800	100	1798	94.3	1908
186.crafty	1000	83.4	1200	82.5	1212
197.parser	1800	193	930	193	933
252.eon	1300	86.3	1506	86.3	1506
253.perlbmk	1800	152	1186	152	1186
254.gap	1100	138	796	138	796
255.vortex	1900	98.9	1921	96.4	1970
256.bzip2	1500	128	1168	128	1168
300.twolf	3000	220	1365	220	1365



Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 to 4
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB (I+D) on chip
Other Cache:	N/A
Memory:	4 GB (16 * 256 MB DIMMs)
Disk Subsystem:	1 SCSI Maxtor 10krpm 36GB
Other Hardware:	

Software

Operating System:	Bull Advanced Server 3 (Linux 64 bits)
Compiler:	Intel(R) C++ Compiler for Linux 8 (Build 20030916) MicroQuill SmartHeap Library 7.01 (www.microquill.com)
File System:	ext2
System State:	Multiuser

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=_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
  255.vortex: -DSPEC_CPU2000_LP64
Peak optimization flags:  (default)
  C programs:       -fast -auto_ilp32 +FDO
  C++ programs:     -fast -ansi_alias +FDO
No Extra Library
```

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Notes/Tuning Information (Continued)

```
164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: +FDO -ipo -O2 -static -auto_ilp32
186.crafty: +FDO -ipo -O2 -static -auto_ilp32 + smh
197.parser: +FDO -fast -auto_ilp32
252.eon: basepeak=yes
253.perlbmk: basepeak=yes
254.gap: basepeak=yes
255.vortex: +FDO -ipo -O2 -static -auto_ilp32 + smh
256.bzip2: basepeak=yes
300.twolf: basepeak=yes

 4 CPU machine with only 1 CPU enabled thanks to boot Linux
 with option maxcpus=0 (ie=UP kernel) in elilo.conf
```