CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

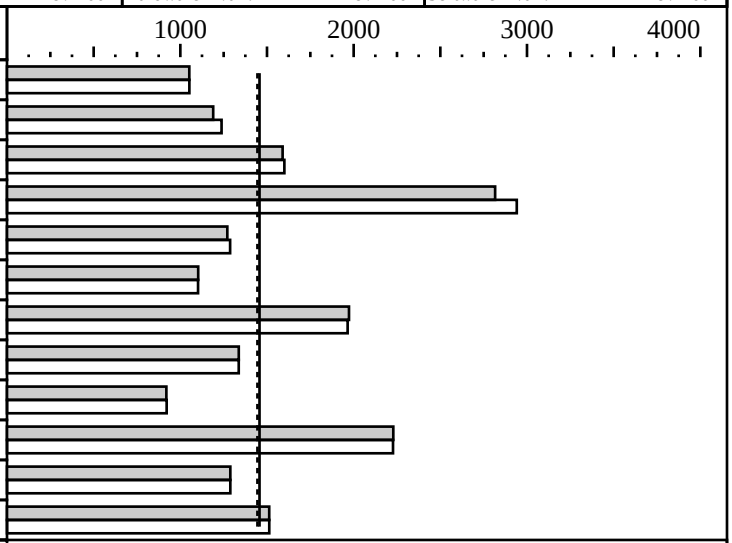
Bull
NovaScale 4040 (1600MHz)

SPECint2000 = 1457

SPECint_base2000 = 1445

SPEC license #: 20 | Tested by: Allaoua Ait Eldjoudi | Test date: Nov-2004 | Hardware Avail: Nov-2004 | Software Avail: Nov-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	133	1052	133	1052
175.vpr	1400	118	1190	113	1238
176.gcc	1100	69.2	1590	68.7	1600
181.mcf	1800	63.9	2816	61.2	2941
186.crafty	1000	78.7	1271	77.7	1287
197.parser	1800	163	1103	163	1102
252.eon	1300	65.9	1973	66.2	1965
253.perlbmk	1800	135	1337	135	1337
254.gap	1100	120	919	119	921
255.vortex	1900	85.3	2229	85.3	2227
256.bzip2	1500	116	1288	116	1288
300.twolf	3000	198	1513	198	1513



Hardware

CPU:	Itanium 2 processor 1600 MHz
CPU MHz:	1600
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, 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:	8 GB (16 * 512MB DIMMs DDR 266)
Disk Subsystem:	1 SCSI Maxtor 10krpm 36 GB
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
  C++ programs default:     -fast -ansi_alias +FDO
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
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

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