



CINT2000 Result

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Bull
NovaScale 4040 (1500MHz)

SPECint_rate2000 = 56.1

SPECint_rate_base2000 = 55.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	4	155	41.9	4	155	41.9
175.vpr	4	141	46.2	4	141	46.2
176.gcc	4	85.1	59.9	4	80.9	63.1
181.mcf	4	104	80.5	4	102	81.6
186.crafty	4	83.4	55.6	4	82.5	56.2
197.parser	4	194	43.1	4	193	43.2
252.eon	4	86.4	69.8	4	86.4	69.8
253.perlbnk	4	152	54.9	4	152	54.9
254.gap	4	149	34.3	4	149	34.3
255.vortex	4	99.1	89.0	4	97.2	90.7
256.bzip2	4	130	53.7	4	130	53.7
300.twolf	4	220	63.2	4	220	63.2

Hardware

CPU: Itanium 2 processor 1500 MHz
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 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)
 File System: MicroQuill SmartHeap Library 7.01 (www.microquill.com)
 System State: ext2
 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.perlbnk: -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

Standard Performance Evaluation Corporation

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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.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: +FDO -ipo -O2 -static -auto_ilp32 + smh
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```