CINT2000 Result

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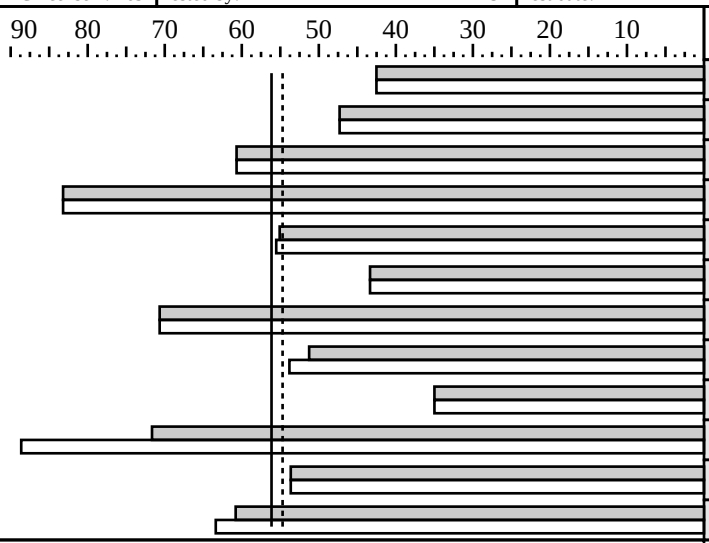
ION
I2X4 (1.5GHz Itanium 2 processor)

SPECint_rate2000 = 56.1

SPECint_rate_base2000 = 54.7

SPEC license #: 2697 | Tested by: ION | Test date: May-2004 | Hardware Avail: Jul-2003 | Software Avail: Apr-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	153	42.5	4	153	42.5
175.vpr	4	137	47.3	4	137	47.3
176.gcc	4	84.1	60.7	4	84.1	60.7
181.mcf	4	100	83.2	4	100	83.2
186.crafty	4	84.2	55.1	4	83.6	55.5
197.parser	4	193	43.4	4	193	43.4
252.eon	4	85.4	70.7	4	85.4	70.7
253.perlbmk	4	163	51.3	4	155	53.8
254.gap	4	146	35.0	4	146	35.0
255.vortex	4	123	71.7	4	99.5	88.6
256.bzip2	4	130	53.6	4	130	53.6
300.twolf	4	229	60.8	4	220	63.4

Hardware

CPU:	Intel Itanium 2 processor
CPU MHz:	1496
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	16KBI + 16KBD per core (on chip)
Secondary Cache:	256KB (I+D) per core (on chip)
L3 Cache:	6144KB (I+D) per core (on chip)
Other Cache:	N/A
Memory:	8 GB (8x1024KB DDR266, 2.5-3-3 DIMMS)
Disk Subsystem:	1x36GB SCSI (Seagate Cheetah 10k rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 2.1, smp kernel, 2.4.18-e.43
Compiler:	Intel(R) C++ Compiler for Linux 8.0 (Build 20040416) MicroQuill SmartHeap library 7.01
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

```
INT Baseline optimization flags:
      C programs: PASS1=-prof_gen  PASS2=-fast  -auto_ilp32 -prof_use
    C++ programs: PASS1=-prof_gen  PASS2=-fast  -ansi_alias -prof_use
INT Peak optimization flags:
      164.gzip: basepeak=yes
       175.vpr: basepeak=yes
       176.gcc: basepeak=yes
       181.mcf: basepeak=yes
    186.crafty: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
    186.crafty: Extra Library: libsmartheap64.a
    197.parser: basepeak=yes
252.eon: basepeak=yes
   253.perlbmk: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
   253.perlbmk: Extra Library: libsmartheap64.a
```

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Notes/Tuning Information (Continued)

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        254.gap: basepeak=yes
      255.vortex: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
      255.vortex: Extra Library: libsmartheap64.a
       256.bzip2: basepeak=yes
       300.twolf: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
       300.twolf: Extra Library: libsmartheap64.a

  Portability Flags:
    176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
    186.crafty: -DLINUX_i386
    252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
    252.eon: srcalt=fmax_errno
    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
```