CINT2000 Result

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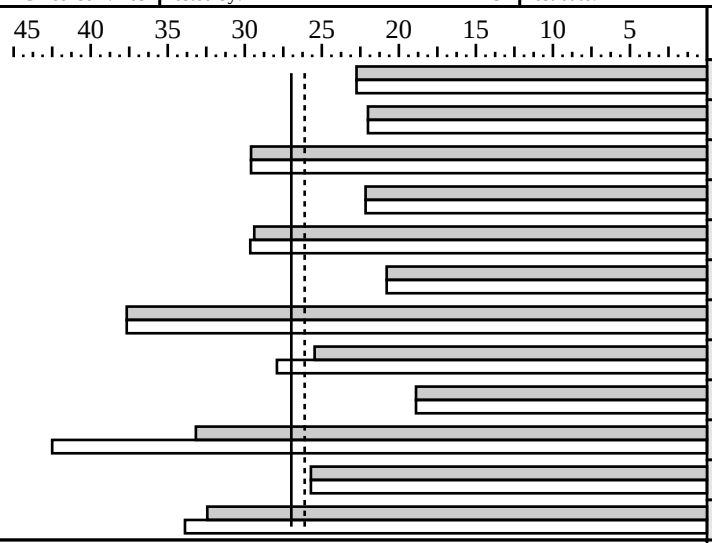
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECint_rate2000 = 27.0

SPECint_rate_base2000 = 26.1

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	143	22.7	2	143	22.7
175.vpr	2	148	22.0	2	148	22.0
176.gcc	2	86.2	29.6	2	86.2	29.6
181.mcf	2	188	22.2	2	188	22.2
186.crafty	2	79.0	29.4	2	78.3	29.6
197.parser	2	201	20.8	2	201	20.8
252.eon	2	80.1	37.7	2	80.1	37.7
253.perlbmk	2	164	25.5	2	150	27.9
254.gap	2	135	18.9	2	135	18.9
255.vortex	2	133	33.2	2	104	42.5
256.bzip2	2	135	25.7	2	135	25.7
300.twolf	2	215	32.4	2	205	33.9

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1596
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	16KBI + 16KBD per core (on chip)
Secondary Cache:	256KB (I+D) per core (on chip)
L3 Cache:	3072KB (I+D) per core (on chip)
Other Cache:	N/A
Memory:	8 GB (8x1024KB DDR266, 2.5-3-3 DIMMs)
Disk Subsystem:	1x 18GB 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
```

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Notes/Tuning Information (Continued)

```
    253.perlbmk: Extra Library: libsmartheap64.a
        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
```