



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.perlbnk	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.perlbnk: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use

```



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Notes/Tuning Information (Continued)

```
253.perlbnk: 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.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
```