



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.perlbnk | 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.perlbnk: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
  253.perlbnk: 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.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
```