CINT2000 Result

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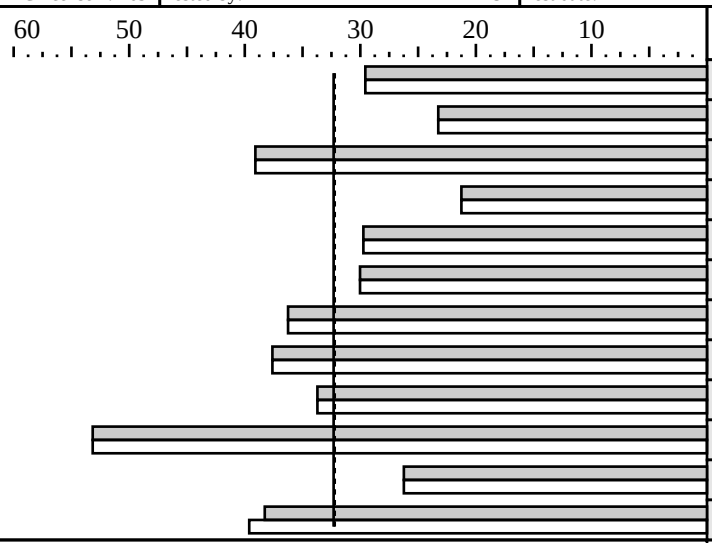
ION Computer Systems

BX21 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECint_rate2000 = 32.3

SPECint_rate_base2000 = 32.2

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	110	29.6	2	110	29.6
175.vpr	2	140	23.3	2	140	23.3
176.gcc	2	65.3	39.1	2	65.3	39.1
181.mcf	2	196	21.3	2	196	21.3
186.crafty	2	78.0	29.7	2	78.0	29.7
197.parser	2	139	30.0	2	139	30.0
252.eon	2	83.2	36.3	2	83.2	36.3
253.perlbmk	2	111	37.6	2	111	37.6
254.gap	2	75.7	33.7	2	75.7	33.7
255.vortex	2	82.9	53.2	2	82.9	53.2
256.bzip2	2	133	26.2	2	133	26.2
300.twolf	2	182	38.3	2	176	39.6

Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	3199
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip, HyperThreading disabled
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	12K(I) micro-ops + 8KB(D) on chip
Secondary Cache:	512KB (I+D) on chip
L3 Cache:	2048KB (I+D) on chip
Other Cache:	None
Memory:	1 GB, DDR266, 2.5-3-3, (4x256MB DIMMs)
Disk Subsystem:	1x 40GB IDE, 5400rpm
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES release 3
Compiler:	Intel(R) C++ Compiler for Linux 8.0 (Build 20040412Z) MicroQuill SmartHeap Library 7.1 (www.microquill.com)
File System:	ext2
System State:	Multi-user, 2.4.21 smp kernel

Notes/Tuning Information

```
Portability Flags:
      176.gcc: -Dalloca=_alloca -DUSG
   186.crafty: -DLINUX_i386
      252.eon: -DHAS_ERRLIST
      252.eon: srcalt=fmax_errno
  253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
               -DSPEC_CPU2000_GLIBC22
      254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
               -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
   255.vortex: srcalt=closed_files
HyperThreading disabled in BIOS

INT Baseline optimization flags:
   C programs: PASS1= -xN -prof_gen PASS2= -xN -fast -prof_use
 C++ programs: PASS1= -xN -prof_gen PASS2= -xN -fast -ansi_alias -prof_use
INT Peak optimization flags:
      164.gzip: basepeak=yes
       175.vpr: basepeak=yes
       176.gcc: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
       181.mcf: basepeak=yes
     186.crafty: basepeak=yes
     197.parser: basepeak=yes
        252.eon: basepeak=yes
    253.perlbmk: basepeak=yes
        254.gap: basepeak=yes
     255.vortex: basepeak=yes
      256.bzip2: basepeak=yes
      300.twolf: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
Extra Library: -L${SH_PATH} -lsmartheap  (SH_PATH is path to SmartHeap Library)
```