CINT2000 Result

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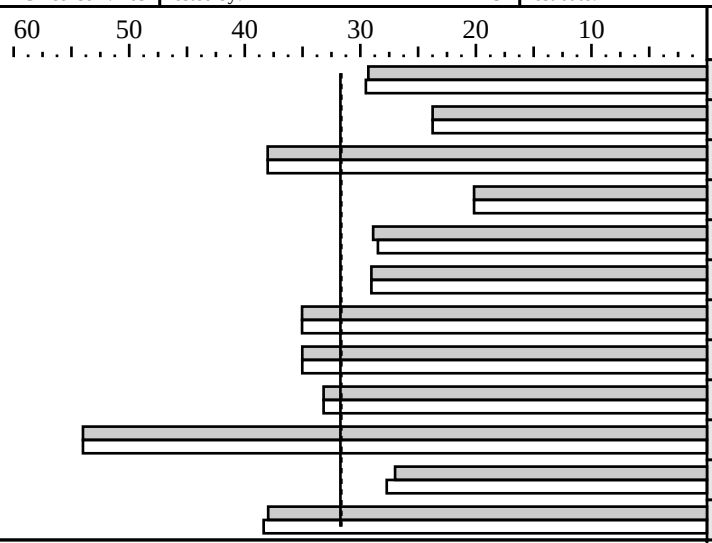
ION Computer Systems

SR2300WV2 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECint_rate2000 = 31.7

SPECint_rate_base2000 = 31.6

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	111	29.3	2	110	29.5
175.vpr	2	137	23.7	2	137	23.7
176.gcc	2	67.1	38.0	2	67.1	38.0
181.mcf	2	207	20.2	2	207	20.2
186.crafty	2	80.3	28.9	2	81.5	28.5
197.parser	2	144	29.0	2	144	29.0
252.eon	2	86.1	35.0	2	86.1	35.0
253.perlbmk	2	119	35.0	2	119	35.0
254.gap	2	76.9	33.2	2	76.9	33.2
255.vortex	2	81.6	54.0	2	81.6	54.0
256.bzip2	2	129	27.0	2	126	27.7
300.twolf	2	183	38.0	2	181	38.4

Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
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:	2 GB (2x1GB 2-2-2 DIMMs)
Disk Subsystem:	1x 80GB IDE
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES release 3
Compiler:	Intel(R) C++ Compiler for Linux 8.0 (Build 20031231Z)
File System:	ext2
System State:	Multi-user, 2.4.21 smp kernel

Notes/Tuning Information

```
HyperThreading disabled in BIOS

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

INT Baseline optimization flags:
    C programs: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
  C++ programs: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
INT Peak optimization flags:
      164.gzip: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
       175.vpr: basepeak=yes
       176.gcc: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
   181.mcf: basepeak=yes
 186.crafty: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
 197.parser: basepeak=yes
    252.eon: basepeak=yes
253.perlbmk: basepeak=yes
    254.gap: basepeak=yes
 255.vortex: basepeak=yes
  256.bzip2: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -unroll1 -prof_use
  300.twolf: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
```