CINT2000 Result

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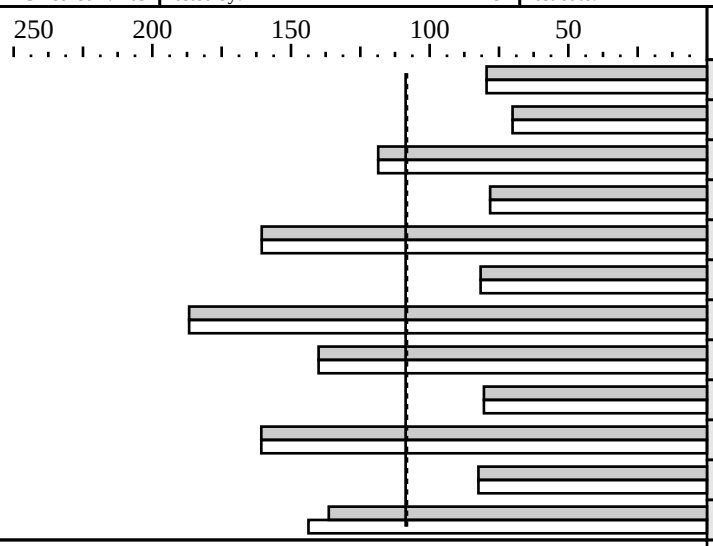
ION

A20 (Intel Xeon processor 5160, 3.0GHz)

SPECint_rate2000 = 109

SPECint_rate_base2000 = 108

SPEC license #: 2697 | Tested by: ION | Test date: Jun-2006 | Hardware Avail: Jul-2006 | Software Avail: May-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	81.7	79.5	4	81.7	79.5
175.vpr	4	92.6	70.1	4	92.6	70.1
176.gcc	4	43.1	119	4	43.1	119
181.mcf	4	107	78.2	4	107	78.2
186.crafty	4	28.9	161	4	28.9	161
197.parser	4	102	81.6	4	102	81.6
252.eon	4	32.3	187	4	32.3	187
253.perlbmk	4	59.6	140	4	59.6	140
254.gap	4	63.5	80.4	4	63.5	80.4
255.vortex	4	54.9	161	4	54.9	161
256.bzip2	4	84.5	82.4	4	84.5	82.4
300.twolf	4	102	136	4	96.9	144

Hardware

CPU:	Intel Xeon Processor 5160 (1333Mhz System Bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	32KB(I) + 32KB(D) on chip, per core
Secondary Cache:	4MB (I+D) on chip, per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (8*1GB PC2 5300 FB-DIMMs)
Disk Subsystem:	1 x 80GB SATA (Seagate Barracuda 7200rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES 4 Update 2 for AMD64/EM64T
Compiler:	Intel(R) C++ Compiler 9.1 for EM64T (Build 20060323)
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 01.00.0043
   Enhanced SpeedStep Disabled in BIOS
   Hardware Prefetcher Enabled in BIOS
   Adjacent Cache Line Prefetch Enabled in BIOS
 kernel 2.6.9-22.ELsmp
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

 SPEC CINT2000 Baseline optimization flags:
     C programs:     -fast -auto_ilp32 +FDO
   C++ programs:     -fast -ansi_alias +FDO
           +FDO: PASS1=-prof_gen  PASS2=-prof_use

    SPEC CINT2000 Peak optimization flags

       164.gzip: basepeak=yes
        175.vpr: basepeak=yes
        176.gcc: basepeak=yes
        181.mcf: basepeak=yes
     186.crafty: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
      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: -fast -auto_ilp32 -msse3 -align +FDO

  Portability Flags:
     186.crafty: -DLINUX_i386
        252.eon: -DHAS_ERRLIST
   253.perlbmk: -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_LINUX_I386
                -DSPEC_CPU2000_LP64
        254.gap: -DSPEC_CPU2000_LP64 -DSYS_IS_USG
     255.vortex: -DSPEC_CPU2000_LP64
```