CINT2000 Result

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ION

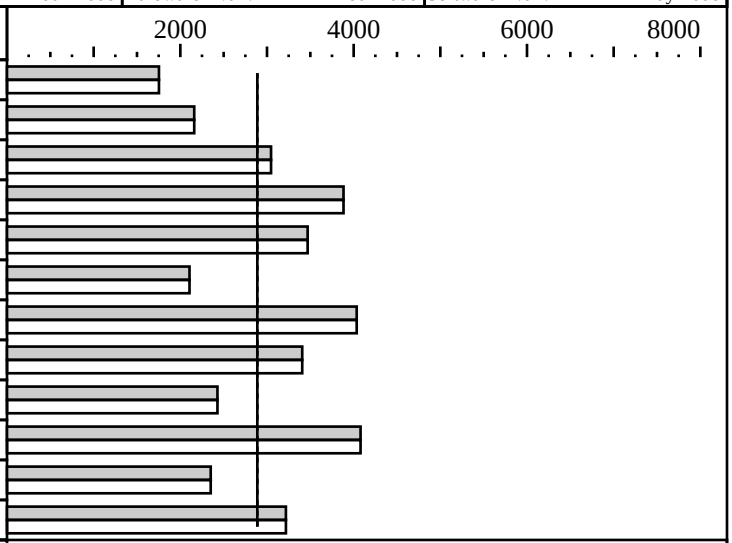
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECint2000 = 2888

SPECint_base2000 = 2888

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	79.8	1753	79.8	1753
175.vpr	1400	64.8	2160	64.8	2160
176.gcc	1100	36.1	3047	36.1	3047
181.mcf	1800	46.4	3883	46.4	3883
186.crafty	1000	28.8	3469	28.8	3469
197.parser	1800	85.5	2106	85.5	2106
252.eon	1300	32.2	4035	32.2	4035
253.perlbmk	1800	52.8	3406	52.8	3406
254.gap	1100	45.3	2428	45.3	2428
255.vortex	1900	46.6	4079	46.6	4079
256.bzip2	1500	63.8	2351	63.8	2351
300.twolf	3000	93.2	3218	93.2	3218



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
```