CINT2000 Result

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ION

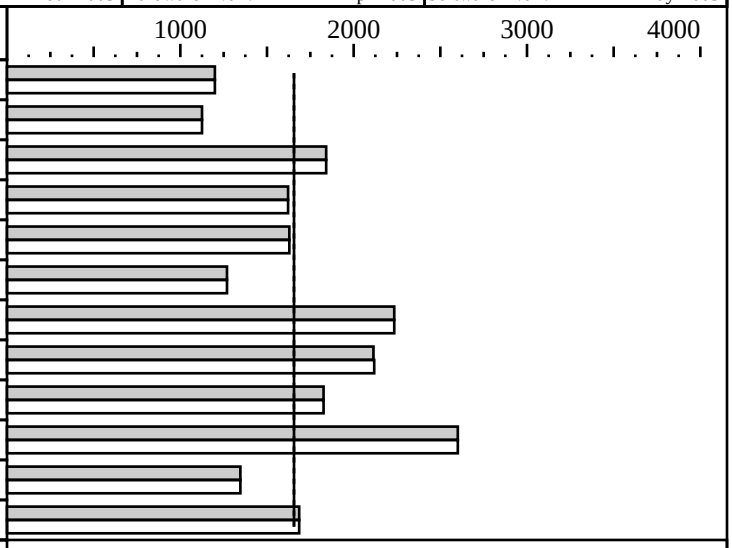
LN20J (3.6GHz Xeon processor w. 2MB L2 cache)

SPECint2000 = 1656

SPECint_base2000 = 1656

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2005 | Hardware Avail: Apr-2005 | Software Avail: May-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	117	1199	117	1199
175.vpr	1400	124	1125	124	1125
176.gcc	1100	59.7	1841	59.7	1841
181.mcf	1800	111	1622	111	1622
186.crafty	1000	61.4	1629	61.4	1629
197.parser	1800	142	1269	142	1269
252.eon	1300	58.2	2234	58.2	2234
253.perlbmk	1800	85.1	2114	85.0	2118
254.gap	1100	60.2	1826	60.2	1826
255.vortex	1900	73.1	2601	73.1	2601
256.bzip2	1500	111	1346	111	1346
300.twolf	3000	178	1686	178	1686



Hardware

CPU:	Intel Xeon processor, 800MHz system bus
CPU MHz:	3591
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	12K(I) micro-ops + 16KB(D) on chip
Secondary Cache:	2048KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (4x512MB DDR2-400, 3-3-3 DIMMs)
Disk Subsystem:	80GB Seagate SATA disk
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux 4 ES, 2.6.9-5.0.5.ELsmp EM64T
Compiler:	Intel(R) C Compiler for EM64T, V8.1 (Build 20050517) Intel(R) C++ Compiler for EM64T, V8.1 (Build 20050517)
File System:	ext3
System State:	Multi-user, runlevel 3

Notes/Tuning Information

```
Tested by ION Computer Systems
 Hyper-Threading Technology disabled in BIOS
 Hardware Prefetcher Enabled in BIOS
 Adjacent Cache Line Prefetch Enabled in BIOS
 System BIOS is V8.10 Build 81

 Feedback optimization:
      +FDO:  PASS1 = -prof_gen   PASS2 = -prof_use

 INT Portability Flags:
       176.gcc: -Dalloca=_alloca
       176.gcc: srcalt=64bitgcc35
    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 -DSPEC_CPU2000_LP64
       254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
               -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
               -DSPEC_CPU2000_LP64
```

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Notes/Tuning Information (Continued)

```
   255.vortex: -DSPEC_CPU2000_LP64
   255.vortex: srcalt=closed_files

INT Baseline optimization flags:
   C programs: -fast -auto_ilp32 +FDO
 C++ programs: -fast -auto_ilp32 +FDO

INT Peak optimization flags:
      164.gzip: basepeak=yes
      175.vpr: basepeak=yes
      176.gcc: basepeak=yes
      181.mcf: basepeak=yes
    186.crafty: basepeak=yes
    197.parser: basepeak=yes
      252.eon: basepeak=yes
   253.perlbmk: -fast -Zp8 -auto_ilp32 +FDO
      254.gap: basepeak=yes
    255.vortex: basepeak=yes
     256.bzip2: basepeak=yes
     300.twolf: basepeak=yes
```