CINT2000 Result

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ION Computer Systems

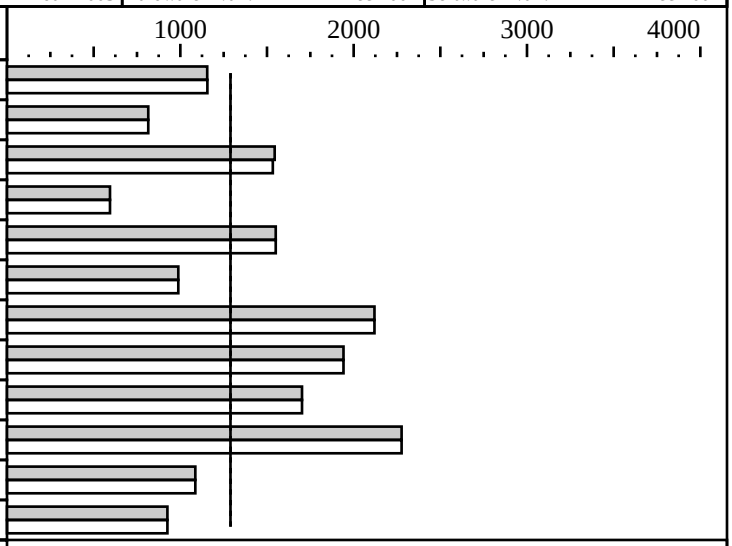
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECint2000 = 1289

SPECint_base2000 = 1290

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Dec-2004 | Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	121	1155	121	1156
175.vpr	1400	172	815	172	815
176.gcc	1100	71.2	1544	71.7	1534
181.mcf	1800	303	594	303	594
186.crafty	1000	64.5	1550	64.5	1550
197.parser	1800	182	988	182	988
252.eon	1300	61.3	2120	61.3	2120
253.perlbmk	1800	92.7	1941	92.7	1941
254.gap	1100	64.6	1702	64.6	1702
255.vortex	1900	83.5	2277	83.5	2277
256.bzip2	1500	138	1086	138	1086
300.twolf	3000	324	925	324	925



Hardware

CPU:	Intel Xeon processor, 800MHz system bus
CPU MHz:	3392
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:	1MB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB DDR2-400 DIMMs)
Disk Subsystem:	80GB Seagate SATA disk
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 3, 2.4.21-20.ELsmp, EM64T
Compiler:	Intel(R) C Compiler for EM64T, V8.1 (Build 20041123) Intel(R) C++ Compiler for EM64T, V8.1 (Build 20041123)
File System:	ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

```
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
   255.vortex: -DSPEC_CPU2000_LP64
   255.vortex: srcalt=closed_files
HyperThreading disabled in BIOS

INT Baseline optimization flags:
   C programs: -xP -fast +FDO
 C++ programs: -xP -fast +FDO
```

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Notes/Tuning Information (Continued)

```
INT Peak optimization flags:
      164.gzip: -xP -fast -ansi_alias -alias_args +FDO
       175.vpr: basepeak=yes
       176.gcc: -xW -fast -ansi_alias -Zp16 +FDO
       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: basepeak=yes
```