CINT2000 Result

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ION Computer Systems

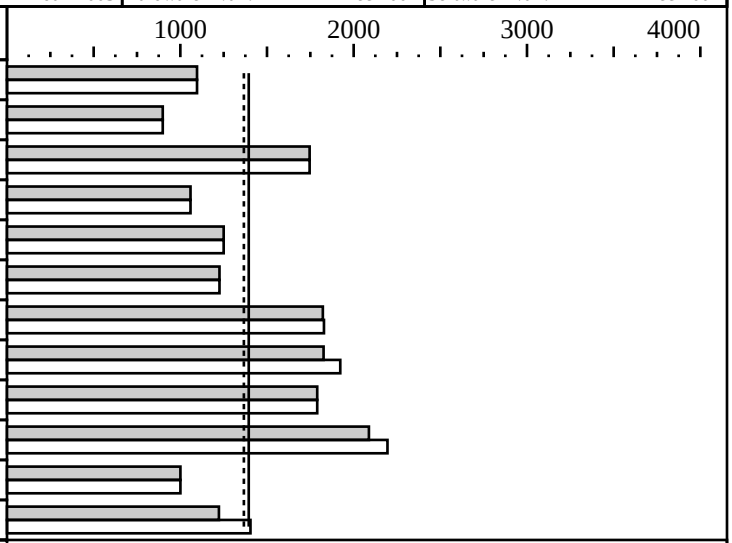
LN10J (3.4GHz Xeon processor,1MB L2 cache,800MHz FSB)

SPECint2000 = 1395

SPECint_base2000 = 1367

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	128	1096	128	1096
175.vpr	1400	156	899	156	899
176.gcc	1100	63.0	1746	63.0	1746
181.mcf	1800	170	1059	170	1059
186.crafty	1000	80.0	1250	80.0	1250
197.parser	1800	147	1226	147	1226
252.eon	1300	71.3	1822	71.1	1829
253.perlbmk	1800	98.6	1826	93.6	1923
254.gap	1100	61.5	1790	61.5	1790
255.vortex	1900	91.0	2088	86.6	2195
256.bzip2	1500	150	1000	150	1000
300.twolf	3000	245	1223	214	1405



Hardware

CPU:	Intel Xeon processor, 800MHz system bus
CPU MHz:	3189
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:	1024KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB DDR2-400 DIMMs)
Disk Subsystem:	1x 250GB SATA
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES 3, IA-32, 2.4.21 smp kernel
Compiler:	Intel(R) C++ Compiler for Linux 8.1, IA-32 (Build 20041118Z) MicroQuill SmartHeap Library 7.1, IA-32 (www.microquill.com)
File System:	ext2
System State:	Multi-user, run level 3

Notes/Tuning Information

```
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
HyperThreading disabled in BIOS

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

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Notes/Tuning Information (Continued)

```
   181.mcf: basepeak=yes
 186.crafty: basepeak=yes
 197.parser: basepeak=yes
   252.eon: -xN -O3 -ipo +FDO
253.perlbmk: -xN -ipo -O3 -lsmartheap +FDO
  254.gap: basepeak=yes
 255.vortex: -xN -ipo -O3 -lsmartheap +FDO
  256.bzip2: basepeak=yes
  300.twolf: -xN -ipo -Oa -O3 -lsmartheap +FDO
```