CINT2000 Result

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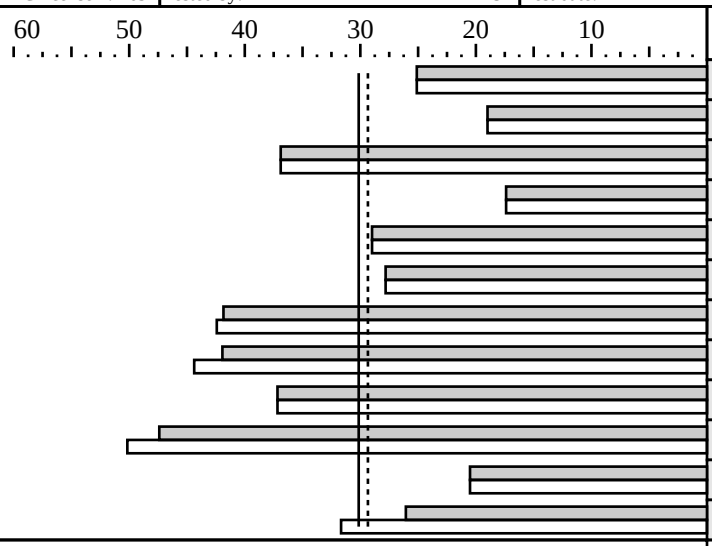
ION Computer Systems

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

SPECint_rate2000 = 30.1

SPECint_rate_base2000 = 29.3

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	129	25.1	2	129	25.1
175.vpr	2	171	19.0	2	171	19.0
176.gcc	2	69.2	36.9	2	69.2	36.9
181.mcf	2	240	17.4	2	240	17.4
186.crafty	2	80.0	29.0	2	80.0	29.0
197.parser	2	150	27.8	2	150	27.8
252.eon	2	72.1	41.8	2	71.1	42.4
253.perlbmk	2	99.6	41.9	2	94.1	44.4
254.gap	2	68.7	37.2	2	68.7	37.2
255.vortex	2	93.0	47.4	2	87.9	50.2
256.bzip2	2	170	20.5	2	170	20.5
300.twolf	2	267	26.1	2	220	31.7

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
```