CINT2000 Result

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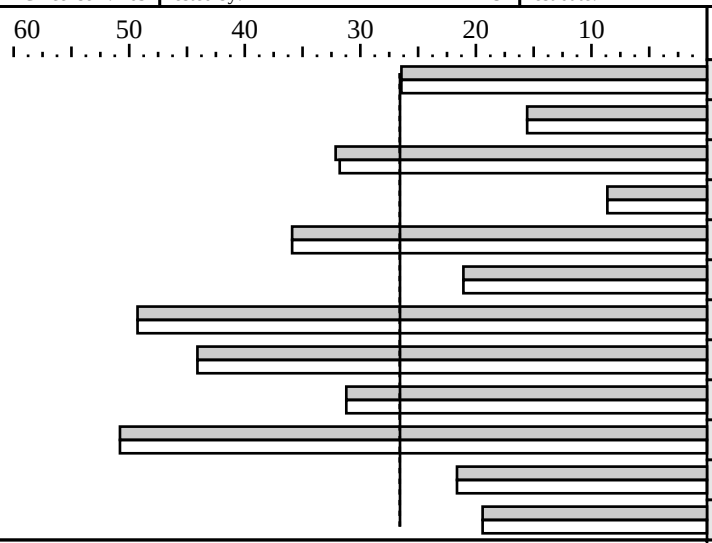
ION Computer Systems

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

SPECint_rate2000 = 26.6

SPECint_rate_base2000 = 26.6

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	123	26.4	2	123	26.4
175.vpr	2	209	15.6	2	209	15.6
176.gcc	2	79.4	32.1	2	80.3	31.8
181.mcf	2	484	8.62	2	484	8.62
186.crafty	2	64.6	35.9	2	64.6	35.9
197.parser	2	198	21.1	2	198	21.1
252.eon	2	61.2	49.3	2	61.2	49.3
253.perlbmk	2	94.7	44.1	2	94.7	44.1
254.gap	2	81.8	31.2	2	81.8	31.2
255.vortex	2	86.8	50.8	2	86.8	50.8
256.bzip2	2	161	21.6	2	161	21.6
300.twolf	2	358	19.4	2	358	19.4

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
```