



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.perlbnk	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.perlbnk: -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.perlbnk: -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
```