



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.perlbnk	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.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
```