



CINT2000 Result

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ION Computer Systems
SR2300WV2 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECint_rate2000 = 30.7
SPECint_rate_base2000 = 30.6

SPEC license #: 2697 | Tested by: K.Josephson, ION | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: Nov-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	110	29.4	2	110	29.6
175.vpr	2	137	23.6	2	137	23.6
176.gcc	2	67.3	37.9	2	67.3	37.9
181.mcf	2	287	14.6	2	287	14.6
186.crafty	2	81.3	28.6	2	80.4	28.9
197.parser	2	145	28.9	2	145	28.9
252.eon	2	89.6	33.7	2	89.6	33.7
253.perlbnk	2	120	34.7	2	120	34.7
254.gap	2	77.8	32.8	2	77.8	32.8
255.vortex	2	80.8	54.5	2	80.8	54.5
256.bzip2	2	131	26.6	2	126	27.6
300.twolf	2	180	38.6	2	182	38.2

Hardware

CPU: Intel Xeon processor, 533MHz system bus
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1-2, Hyper-Threading Technology disabled in BIOS
Parallel: No
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 2048KB(I+D) on chip
Other Cache: None
Memory: 2 GB (2x1GB 2-2-2 DIMMs)
Disk Subsystem: 1x 80GB IDE
Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux ES release 3
Compiler: Intel(R) C++ Compiler for Linux 8.0 (Build 20031231Z)
File System: ext2
System State: Multi-user, 2.4.21 smp kernel

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
```

INT Baseline optimization flags:

```
C programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use
C++ programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use
```

INT Peak optimization flags:

```
164.gzip: PASS1= -xW -prof_gen PASS2= -xW -ipo -Oa -O3 -prof_use
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
```



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Notes/Tuning Information (Continued)

```
186.crafty: PASS1= -xW -prof_gen PASS2= -xW -ipo -Oa -O3 -prof_use
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
    254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: PASS1= -xW -prof_gen PASS2= -xW -ipo -Oa -O3 -unroll11 -prof_use
300.twolf: PASS1= -xW -prof_gen PASS2= -xW -ipo -Oa -O3 -prof_use
```