



CINT2000 Result

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

SPECint_rate2000 = 31.7
SPECint_rate_base2000 = 31.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	111	29.3	2	110	29.5
175.vpr	2	137	23.7	2	137	23.7
176.gcc	2	67.1	38.0	2	67.1	38.0
181.mcf	2	207	20.2	2	207	20.2
186.crafty	2	80.3	28.9	2	81.5	28.5
197.parser	2	144	29.0	2	144	29.0
252.eon	2	86.1	35.0	2	86.1	35.0
253.perlbnk	2	119	35.0	2	119	35.0
254.gap	2	76.9	33.2	2	76.9	33.2
255.vortex	2	81.6	54.0	2	81.6	54.0
256.bzip2	2	129	27.0	2	126	27.7
300.twolf	2	183	38.0	2	181	38.4

Hardware

CPU: Intel Xeon processor, 533MHz system bus
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1-2
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

HyperThreading disabled in BIOS

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= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use

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

INT Peak optimization flags:

164.gzip: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use

175.vpr: basepeak=yes

176.gcc: basepeak=yes



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Notes/Tuning Information (Continued)

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181.mcf: basepeak=yes
186.crafty: PASS1= -xN -prof_gen PASS2= -xN -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= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -unroll1 -prof_use
300.twolf: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
```