



CINT2000 Result

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ION Computer Systems

SR2300WV2 (3.066GHz Xeon processor w. 512KB L2 cache)

SPECint2000 = 1139

SPECint_base2000 = 1139

SPEC license #: 2697 | Tested by: ION | Test date: Feb-2004 | Hardware Avail: Nov-2003 | Software Avail: Jan-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	Scale (500, 1000, 1500, 2000)			
164.gzip	1400	112	1252	112	1247	[Bar chart showing ratio vs scale]			
175.vpr	1400	206	679	206	679	[Bar chart showing ratio vs scale]			
176.gcc	1100	78.4	1403	78.4	1403	[Bar chart showing ratio vs scale]			
181.mcf	1800	229	785	229	785	[Bar chart showing ratio vs scale]			
186.crafty	1000	86.8	1152	88.0	1136	[Bar chart showing ratio vs scale]			
197.parser	1800	176	1022	176	1022	[Bar chart showing ratio vs scale]			
252.eon	1300	89.2	1458	89.2	1458	[Bar chart showing ratio vs scale]			
253.perlbmk	1800	128	1407	128	1407	[Bar chart showing ratio vs scale]			
254.gap	1100	73.0	1507	73.0	1507	[Bar chart showing ratio vs scale]			
255.vortex	1900	96.5	1969	96.5	1969	[Bar chart showing ratio vs scale]			
256.bzip2	1500	173	869	171	879	[Bar chart showing ratio vs scale]			
300.twolf	3000	368	816	366	820	[Bar chart showing ratio vs scale]			

Hardware

CPU: Intel Xeon processor, 533MHz system bus
CPU MHz: 3057
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: None
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 up kernel

Notes/Tuning Information

Only 1 processor installed
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.perlbmk: -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
```



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Notes/Tuning Information (Continued)

```
176.gcc: basepeak=yes
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
```