



# CINT2000 Result

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

**SPECint2000 = 1455**  
**SPECint\_base2000 = 1452**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	108	1292	108	1294	
175.vpr	1400	122	1147	122	1147	
176.gcc	1100	62.0	1774	62.0	1774	
181.mcf	1800	174	1035	174	1035	
186.crafty	1000	80.0	1250	79.6	1256	
197.parser	1800	140	1289	140	1289	
252.eon	1300	89.6	1451	89.6	1451	
253.perlbmk	1800	116	1552	116	1552	
254.gap	1100	67.5	1631	67.5	1631	
255.vortex	1900	76.4	2488	76.4	2488	
256.bzip2	1500	117	1278	115	1306	
300.twolf	3000	176	1708	176	1704	

### Hardware

CPU: Intel Xeon processor, 533MHz system bus  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1-2, Only 1 CPU installed, 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 up 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.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= -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
```