



# CINT2000 Result

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**ION Computer Systems**  
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECint\_rate2000 = 26.6  
SPECint\_rate\_base2000 = 26.6

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Dec-2004 | Software Avail: Dec-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	123	26.4	2	123	26.4
175.vpr	2	209	15.6	2	209	15.6
176.gcc	2	79.4	32.1	2	80.3	31.8
181.mcf	2	484	8.62	2	484	8.62
186.crafty	2	64.6	35.9	2	64.6	35.9
197.parser	2	198	21.1	2	198	21.1
252.eon	2	61.2	49.3	2	61.2	49.3
253.perlbnk	2	94.7	44.1	2	94.7	44.1
254.gap	2	81.8	31.2	2	81.8	31.2
255.vortex	2	86.8	50.8	2	86.8	50.8
256.bzip2	2	161	21.6	2	161	21.6
300.twolf	2	358	19.4	2	358	19.4

### Hardware

CPU: Intel Xeon processor, 800MHz system bus  
 CPU MHz: 3392  
 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: 1MB (I+D) on chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4x1GB DDR2-400 DIMMs)  
 Disk Subsystem: 80GB Seagate SATA disk  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux AS 3, 2.4.21-20.ELsmp, EM64T  
 Compiler: Intel(R) C Compiler for EM64T, V8.1 (Build 20041123)  
 Intel(R) C++ Compiler for EM64T, V8.1 (Build 20041123)  
 File System: ext3  
 System State: Multi-user, run level 3

## Notes/Tuning Information

### Portability Flags:

```

176.gcc: -Dalloca=_alloca
176.gcc: srcalt=64bitgcc35
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 -DSPEC_CPU2000_LP64
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
          -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
          -DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64
255.vortex: srcalt=closed_files
HyperThreading disabled in BIOS

```

### INT Baseline optimization flags:

```

C programs: -xP -fast +FDO
C++ programs: -xP -fast +FDO

```



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## Notes/Tuning Information (Continued)

INT Peak optimization flags:

```
164.gzip: -xP -fast -ansi_alias -alias_args +FDO
175.vpr: basepeak=yes
176.gcc: -xW -fast -ansi_alias -Zp16 +FDO
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```