



# CINT2000 Result

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

**SPECint\_rate2000 = 30.1**  
**SPECint\_rate\_base2000 = 29.5**

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	130	25.1	2	130	25.1
175.vpr	2	177	18.4	2	177	18.4
176.gcc	2	67.4	37.9	2	67.4	37.9
181.mcf	2	240	17.4	2	240	17.4
186.crafty	2	79.6	29.1	2	79.6	29.1
197.parser	2	150	27.8	2	150	27.8
252.eon	2	71.8	42.0	2	71.7	42.1
253.perlbnk	2	98.0	42.6	2	95.8	43.6
254.gap	2	66.7	38.3	2	66.7	38.3
255.vortex	2	91.2	48.3	2	86.6	50.9
256.bzip2	2	168	20.8	2	168	20.8
300.twolf	2	268	25.9	2	228	30.6

### 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: SuSE Linux Professional 9.1, IA-32, 2.6.4-52-smp  
Compiler: Intel(R) C Compiler, V8.1, IA-32 (Build 20041118Z)  
Intel(R) C++ Compiler, V8.1, IA-32 (Build 20041118Z)  
MicroQuill SmartHeap Library 7.1, IA-32 (www.microquill.com)  
File System: ext2  
System State: Multi-user, run level 3

## Notes/Tuning Information

### Portability Flags:

```
176.gcc: srcalt=64bitgcc35
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
252.eon: srcalt=stdcpp
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
HyperThreading disabled in BIOS
```

### INT Baseline optimization flags:

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

### INT Peak optimization flags:

```
164.zip: basepeak=yes
175.vpr: basepeak=yes
```



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## Notes/Tuning Information (Continued)

```
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: basepeak=yes
252.eon: -xN -fast +FDO
253.perlbnk: -xN -fast -lsmartheap +FDO
254.gap: basepeak=yes
255.vortex: -xN -fast -lsmartheap +FDO
256.bzip2: basepeak=yes
300.twolf: -xN -fast -Oa -lsmartheap +FDO
```