



# CINT2000 Result

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**ION**  
A20 (Intel Xeon processor 5150, 2.66GHz)

SPECint\_rate2000 = 101  
SPECint\_rate\_base2000 = 101

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2006 | Hardware Avail: Jul-2006 | Software Avail: Jun-2006

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip    | 4           | 90.8         | 71.5       | 4      | 90.8    | 71.5  |
| 175.vpr     | 4           | 89.8         | 72.4       | 4      | 89.8    | 72.4  |
| 176.gcc     | 4           | 47.9         | 107        | 4      | 47.9    | 107   |
| 181.mcf     | 4           | 114          | 73.0       | 4      | 114     | 73.0  |
| 186.crafty  | 4           | 32.5         | 143        | 4      | 32.5    | 143   |
| 197.parser  | 4           | 111          | 74.9       | 4      | 111     | 74.9  |
| 252.eon     | 4           | 36.3         | 166        | 4      | 36.3    | 166   |
| 253.perlbnk | 4           | 64.7         | 129        | 4      | 64.7    | 129   |
| 254.gap     | 4           | 60.1         | 84.9       | 4      | 60.1    | 84.9  |
| 255.vortex  | 4           | 58.0         | 152        | 4      | 58.0    | 152   |
| 256.bzip2   | 4           | 91.1         | 76.4       | 4      | 91.1    | 76.4  |
| 300.twolf   | 4           | 107          | 130        | 4      | 107     | 130   |

### Hardware

CPU: Intel Xeon Processor 5150 (1333Mhz System Bus)  
 CPU MHz: 2666  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
 Secondary Cache: 4MB (I+D) on chip, per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8\*1GB PC2-5300 FB-DIMMs)  
 Disk Subsystem: 1 x 400GB SATA, 7200rpm  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 4 Update 3 for AMD64/Intel EM64T  
 Compiler: Intel(R) C++ Compiler for EM64T, V9.1 (Build 20060519)  
 File System: ext3  
 System State: Multi-user

## Notes/Tuning Information

Tested by ION Computer Systems

BIOS 1.00 Build 45

Enhanced SpeedStep Disabled in BIOS

Hardware Prefetcher Enabled in BIOS (Default)

Adjacent Cache Line Prefetch Enabled in BIOS (Default)

kernel 2.6.9-34.0.1.ELsmp

+FDO: PASS1=-prof\_gen PASS2=-prof\_use

SPEC CINT2000 Baseline optimization flags:

C programs: -fast -auto\_ilp32 +FDO

C++ programs: -fast -ansi\_alias +FDO

+FDO: PASS1=-prof\_gen PASS2=-prof\_use

SPEC CINT2000 Peak optimization flags

basepeak=yes set globally

Portability Flags:

186.crafty: -DLINUX\_i386

252.eon: -DHAS\_ERRLIST

253.perlbnk: -DSPEC\_CPU2000\_NEED\_BOOL -DSPEC\_CPU2000\_LINUX\_I386

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## Notes/Tuning Information (Continued)

-DSPEC\_CPU2000\_LP64  
254.gap: -DSPEC\_CPU2000\_LP64 -DSYS\_IS\_USG  
255.vortex: -DSPEC\_CPU2000\_LP64