



# CINT2000 Result

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**ION**  
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECint\_rate2000 = 115

SPECint\_rate\_base2000 = 115

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	79.0	82.3	4	79.0	82.3
175.vpr	4	79.2	82.0	4	79.2	82.0
176.gcc	4	40.4	126	4	40.4	126
181.mcf	4	101	82.6	4	101	82.6
186.crafty	4	36.2	128	4	36.2	128
197.parser	4	86.5	96.6	4	86.5	96.6
252.eon	4	37.0	163	4	37.0	163
253.perlbnk	4	53.6	156	4	53.6	156
254.gap	4	45.4	112	4	45.4	112
255.vortex	4	50.9	173	4	50.9	173
256.bzip2	4	90.2	77.2	4	90.2	77.2
300.twolf	4	90.6	154	4	90.6	154

### Hardware

CPU: Intel Xeon Processor 5160 (1333Mhz System Bus)  
CPU MHz: 3000  
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 80GB SATA (Seagate ST380817AS Barracuda 7200rpm)  
Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit)  
Compiler: Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060519Z)  
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 +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)

254.gap: -DSYS\_IS\_USG