



# CINT2000 Result

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**ION**  
A20 (Intel Xeon processor 5130, 2GHz)

SPECint\_rate2000 = 85.0  
SPECint\_rate\_base2000 = 85.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	116	55.9	4	116	55.9
175.vpr	4	103	63.4	4	103	63.4
176.gcc	4	49.2	104	4	49.2	104
181.mcf	4	111	75.4	4	111	75.4
186.crafty	4	54.3	85.5	4	54.3	85.5
197.parser	4	121	69.1	4	121	69.1
252.eon	4	55.7	108	4	55.7	108
253.perlbnk	4	77.3	108	4	77.3	108
254.gap	4	58.0	88.0	4	58.0	88.0
255.vortex	4	66.1	133	4	66.1	133
256.bzip2	4	115	60.5	4	115	60.5
300.twolf	4	132	105	4	132	105

### Hardware

CPU: Intel Xeon Processor 5130 (1333Mhz System Bus)  
CPU MHz: 2000  
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 20060706Z)  
File System: ext3  
System State: Multi-user

## Notes/Tuning Information

Tested by ION Computer Systems

BIOS 2.00 Build 54

Enhanced SpeedStep Disabled in BIOS

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

254.gap: -DSYS\_IS\_USG

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