



# CINT2000 Result

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

SPECint2000 = 2888

SPECint\_base2000 = 2888

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	79.8	1753	79.8	1753	
175.vpr	1400	64.8	2160	64.8	2160	
176.gcc	1100	36.1	3047	36.1	3047	
181.mcf	1800	46.4	3883	46.4	3883	
186.crafty	1000	28.8	3469	28.8	3469	
197.parser	1800	85.5	2106	85.5	2106	
252.eon	1300	32.2	4035	32.2	4035	
253.perlbmk	1800	52.8	3406	52.8	3406	
254.gap	1100	45.3	2428	45.3	2428	
255.vortex	1900	46.6	4079	46.6	4079	
256.bzip2	1500	63.8	2351	63.8	2351	
300.twolf	3000	93.2	3218	93.2	3218	

### 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  
 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 Barracuda 7200rpm)  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 4 Update 2 for AMD64/EM64T  
 Compiler: Intel(R) C++ Compiler 9.1 for EM64T (Build 20060323)  
 File System: ext3  
 System State: Multi-user

## Notes/Tuning Information

Tested by ION Computer Systems

BIOS 01.00.0043

Enhanced SpeedStep Disabled in BIOS

Hardware Prefetcher Enabled in BIOS

Adjacent Cache Line Prefetch Enabled in BIOS

kernel 2.6.9-22.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

164.gzip: basepeak=yes

175.vpr: basepeak=yes

176.gcc: basepeak=yes

181.mcf: basepeak=yes

186.crafty: basepeak=yes

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org



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## Notes/Tuning Information (Continued)

```
197.parser: basepeak=yes
  252.eon: basepeak=yes
253.perlbmk: basepeak=yes
  254.gap: basepeak=yes
255.vortex: basepeak=yes
  256.bzip2: basepeak=yes
  300.twolf: -fast -auto_ilp32 -msse3 -align +FDO
```

### Portability Flags:

```
186.crafty: -DLINUX_i386
  252.eon: -DHAS_ERRLIST
253.perlbmk: -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_LINUX_I386
  -DSPEC_CPU2000_LP64
  254.gap: -DSPEC_CPU2000_LP64 -DSYS_IS_USG
255.vortex: -DSPEC_CPU2000_LP64
```