



CINT2000 Result

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ION
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECint_rate2000 = 109
SPECint_rate_base2000 = 108

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	81.7	79.5	4	81.7	79.5
175.vpr	4	92.6	70.1	4	92.6	70.1
176.gcc	4	43.1	119	4	43.1	119
181.mcf	4	107	78.2	4	107	78.2
186.crafty	4	28.9	161	4	28.9	161
197.parser	4	102	81.6	4	102	81.6
252.eon	4	32.3	187	4	32.3	187
253.perlbnk	4	59.6	140	4	59.6	140
254.gap	4	63.5	80.4	4	63.5	80.4
255.vortex	4	54.9	161	4	54.9	161
256.bzip2	4	84.5	82.4	4	84.5	82.4
300.twolf	4	102	136	4	96.9	144

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
```