



CINT2000 Result

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ION
A20 (Intel Xeon processor 5130, 2.0GHz)

SPECint_rate2000 = 82.9
SPECint_rate_base2000 = 82.9

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	120	54.3	4	120	54.3
175.vpr	4	103	63.2	4	103	63.2
176.gcc	4	59.7	85.4	4	59.7	85.4
181.mcf	4	118	70.8	4	118	70.8
186.crafty	4	43.6	106	4	43.6	106
197.parser	4	138	60.7	4	138	60.7
252.eon	4	48.5	124	4	48.5	124
253.perlbnk	4	81.3	103	4	81.3	103
254.gap	4	68.0	75.0	4	68.0	75.0
255.vortex	4	67.2	131	4	67.2	131
256.bzip2	4	109	63.8	4	109	63.8
300.twolf	4	141	98.5	4	141	98.5

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 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 20060707)
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 -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

-DSPEC_CPU2000_LP64

254.gap: -DSPEC_CPU2000_LP64 -DSYS_IS_USG

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Notes/Tuning Information (Continued)

255.vortex: -DSPEC_CPU2000_LP64