



CINT2000 Result

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ION

LN20J (3.6GHz Xeon processor w. 2MB L2 cache)

SPECint_rate2000 = 36.5

SPECint_rate_base2000 = 36.5

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2005 | Hardware Avail: Apr-2005 | Software Avail: May-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	118	27.5	2	118	27.5
175.vpr	2	129	25.1	2	129	25.1
176.gcc	2	61.3	41.6	2	61.3	41.6
181.mcf	2	136	30.7	2	136	30.7
186.crafty	2	61.5	37.8	2	61.5	37.8
197.parser	2	143	29.1	2	143	29.1
252.eon	2	58.2	51.8	2	58.2	51.8
253.perlbnk	2	85.6	48.8	2	85.7	48.7
254.gap	2	71.8	35.6	2	71.8	35.6
255.vortex	2	74.2	59.4	2	74.2	59.4
256.bzip2	2	120	29.1	2	120	29.1
300.twolf	2	185	37.6	2	185	37.6

Hardware

CPU: Intel Xeon processor, 800MHz system bus
CPU MHz: 3591
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1-2
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
Secondary Cache: 2048KB (I+D) on chip
L3 Cache: None
Other Cache: None
Memory: 2 GB (4x512MB DDR2-400, 3-3-3 DIMMs)
Disk Subsystem: 80GB Seagate SATA disk
Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux 4 ES, 2.6.9-5.0.5.ELsmp EM64T
Compiler: Intel(R) C Compiler for EM64T, V8.1 (Build 20050517)
Intel(R) C++ Compiler for EM64T, V8.1 (Build 20050517)
File System: ext3
System State: Multi-user, runlevel 3

Notes/Tuning Information

Tested by ION Computer Systems
Hyper-Threading Technology disabled in BIOS
Hardware Prefetcher Enabled in BIOS
Adjacent Cache Line Prefetch Enabled in BIOS
System BIOS is V8.10 Build 81

Feedback optimization:
+FDO: PASS1 = -prof_gen PASS2 = -prof_use

INT Portability Flags:
176.gcc: -Dalloca=_alloca
176.gcc: srcalt=64bitgcc35
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
252.eon: srcalt=fmax_errno
253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
-DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
-DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
-DSPEC_CPU2000_LP64



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Notes/Tuning Information (Continued)

255.vortex: -DSPEC_CPU2000_LP64
255.vortex: srcalt=closed_files

INT Baseline optimization flags:

C programs: -fast -auto_ilp32 +FDO
C++ programs: -fast -auto_ilp32 +FDO

INT Peak optimization flags:

164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: -fast -Zp8 -auto_ilp32 +FDO
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: basepeak=yes
300.twolf: basepeak=yes