



CINT2000 Result

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ION

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

SPECint2000 = 1656

SPECint_base2000 = 1656

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	117	1199	117	1199	
175.vpr	1400	124	1125	124	1125	
176.gcc	1100	59.7	1841	59.7	1841	
181.mcf	1800	111	1622	111	1622	
186.crafty	1000	61.4	1629	61.4	1629	
197.parser	1800	142	1269	142	1269	
252.eon	1300	58.2	2234	58.2	2234	
253.perlbmk	1800	85.1	2114	85.0	2118	
254.gap	1100	60.2	1826	60.2	1826	
255.vortex	1900	73.1	2601	73.1	2601	
256.bzip2	1500	111	1346	111	1346	
300.twolf	3000	178	1686	178	1686	

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.perlbmk: -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