



CINT2000 Result

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ION
A20 (Intel Xeon processor 5110, 1.6GHz)

SPECint2000 = 1666
SPECint_base2000 = 1666

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	147	952	147	952	
175.vpr	1400	105	1328	105	1328	
176.gcc	1100	64.0	1719	64.0	1719	
181.mcf	1800	72.4	2487	72.4	2487	
186.crafty	1000	54.4	1837	54.4	1837	
197.parser	1800	154	1167	154	1167	
252.eon	1300	60.7	2143	60.7	2143	
253.perlbmk	1800	93.5	1925	93.5	1925	
254.gap	1100	72.6	1514	72.6	1514	
255.vortex	1900	71.1	2671	71.1	2671	
256.bzip2	1500	112	1336	112	1336	
300.twolf	3000	170	1768	170	1768	

Hardware

CPU: Intel Xeon Processor 5110 (1066Mhz System Bus)
 CPU MHz: 1600
 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.perlbmk: -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