

randy@localhost lab1 \$ cat /proc/cpuinfo

processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 55
model name : Intel(R) Pentium(R) CPU N3540 @ 2.16GHz
stepping : 8
microcode : 0x809
cpu MHz : 499.677
cache size : 1024 KB
physical id : 0
siblings : 4
core id : 0
cpu cores : 4
apicid : 0
initial apicid : 0
fpu : yes
fpu_exception : yes
cpuid level : 11
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
dts acpi mmx fxsr **sse sse2** ss ht tm pbe syscall nx rdtscp lm constant_tsc arch_perfmon pebs bts
rep_good nopl xtopology nonstop_tsc aperfmperf eagerfpu pni pclmulqdq dtes64 monitor ds_cpl
vmx est tm2 ssse3 cx16 xtpr pdcm **sse4_1 sse4_2** movbe popcnt tsc_deadline_timer rdrand lahf_lm
3dnowprefetch epb tpr_shadow vnmi flexpriority ept vpid tsc_adjust smep erms dtherm ida arat
bugs :
bogomips : 4326.40
clflush size : 64
cache_alignment : 64
address sizes : 36 bits physical, 48 bits virtual
power management:

Test name	Speedup		
	Vector size		
	10000	1000000	100000000
gcc ... no compiler optimization			
SAXPY_vectorized	3.94	2.45	2.52
DAXPY_vectorized	1.31	1.32	1.32
gcc -O2			
SAXPY_vectorized	2.07	0.90	1.14
DAXPY_vectorized	0.84	1.10	0.96