armv7 registers 32 bit registers

a1	r0		
a2	r1		
a3	r2		
a4	r3		
v1	r4		
v2	r5		
v3	r6		
v4	r7		
v5	r8		
v6	r9		
v7	r10	fp	
r8	r11	ip	
	r13	sp	
	r14	lr	
	r15	pc	
	cp sr		

n	z	c	v				

N
Z
c
v

Stack in linux is **full descending**
stack pointer points to the last **full** address
subtract from the sp to add things to the
'bottom' if the stack (ppl may say top of the
stack)

byte 3	byte 2	byte 1	byte 0	address
				0xffffffff
				above -4
				0x00000000