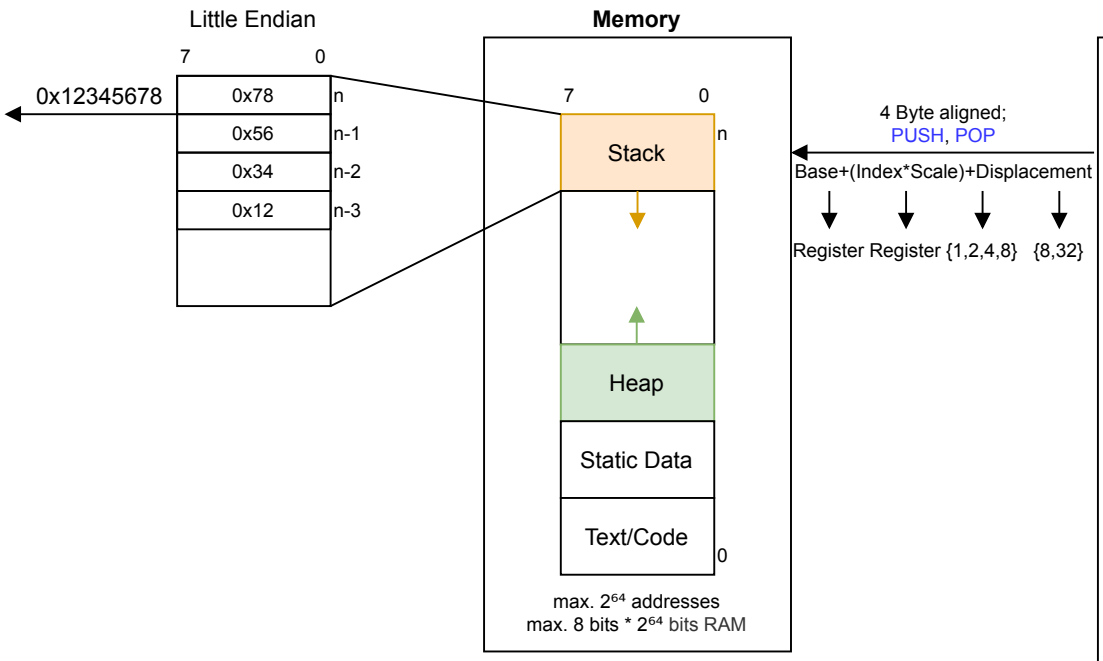
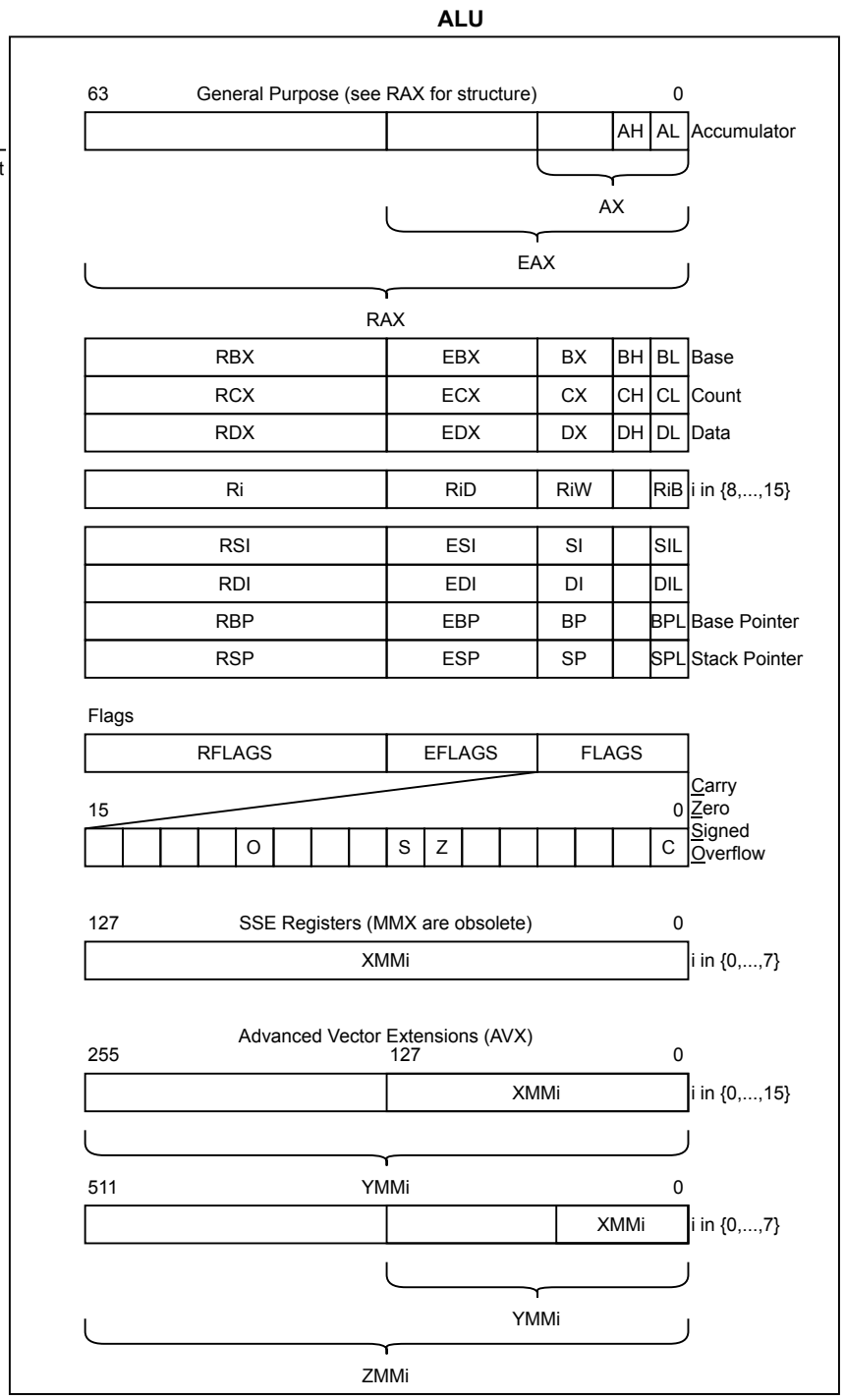
x64 Cheatsheet





Calling Conventions

Argument 1	RDI	Caller-saved
Argument 2	RSI	Caller-saved
Argument 3	RDX	Caller-saved
Argument 4	RCX	Caller-saved
Argument 5	R8	Caller-saved
Argument 6	R9	Caller-saved
Return Value	RAX	Caller-saved

Calling Conventions (floating point)

Argument 1-8	XMMi	Caller-saved

Callee/Caller-saved registers

RBX	Callee-saved
RSP	Callee-saved
R10,R12	Caller-saved
R12-15	Callee-saved

7th argument on stack (64 Bit arguments/variables)

...	
RBP + 16	8th parameter
RBP + 8	7th parameter
RBP (old)	
RBP - 8	local variable 1
RBP - 16	local variable 2
...	