
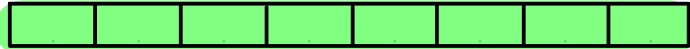
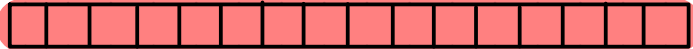


*downscaled by $\times 4$


AVX512 data types $\times 2MM$ vectors

$_m512$  16 floats
 $\hookrightarrow 1 \square \rightarrow 4 \text{ bytes} = 32 \text{ bit}$

$_m512d$  8 doubles
 $\hookrightarrow 1 \square \rightarrow 8 \text{ bytes} = 64 \text{ bit}$

$_m512i$  16 32bit ints

 32 16bit shorts

 8 64 bit longlongs

 4 128 bit quadword