

$$X = \sum a(i) * c(i)$$

Pmaddwd

a0	a1	a2	a3
*	*	*	*
c0	c1	c2	c3

a0*c0+a1*c1	a2*c2+a3*c3
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Shift to right precision if needed

+

a4	a5	a6	a7
*	*	*	*
c4	c5	c6	c7

a4*c4+a5*c5	a6*c6+a7*c7
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Shift to right precision if needed

+

Accumulator

Paddd

Note: Input data and coefficients are 16-bit precision.
If not, first unpack to 16 bit.