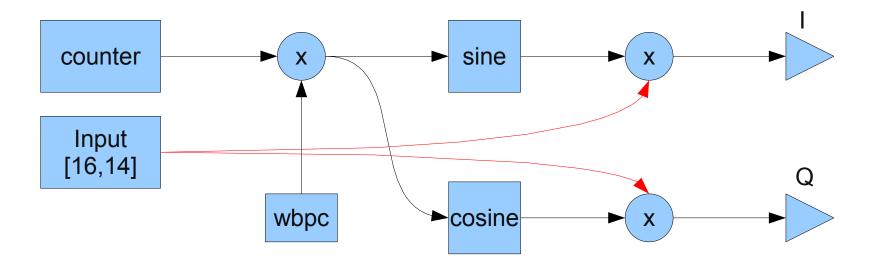
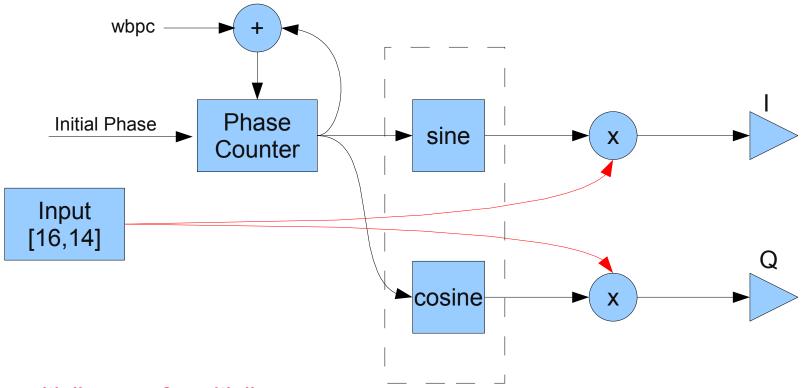
Quadrature Modulation Baseline



- 1. What should be counter's initial value in the real design?
- 2. What happens if counter overflows?
- 3. Can we do with 1 less multiplier?

Quadrature Modulation w/ Phase Counting

phase=init+wbpc*(0:N0-1)
xbsr=xov.*cos(phase)
xbsi=xov.*sin(phase)



- 1. 2 multipliers vs. 3 multipliers
- 2. What happens if counter overflows?
- 3. Sine and Cosine are generated from a single Cordic Core.

Phase Counter (3-bit Integer, x-bit decimal)

