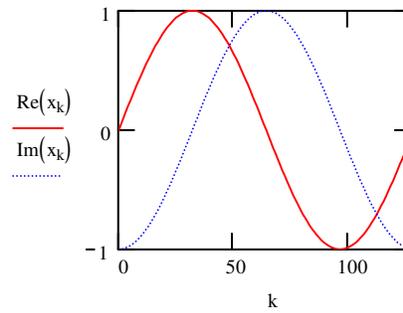


N1 := 16 Outer DFT Length
 N2 := 8 Inner DFT Length
 N := N1·N2 Total DFT Length
 k1 := 0..(N1 - 1) k := 0..(N - 1)
 k2 := 0..(N2 - 1) i := $\sqrt{-1}$

$$W := e^{-i \cdot 2 \cdot \frac{\pi}{N}} \quad W1 := e^{-i \cdot 2 \cdot \frac{\pi}{N1}} \quad W2 := e^{-i \cdot 2 \cdot \frac{\pi}{N2}}$$

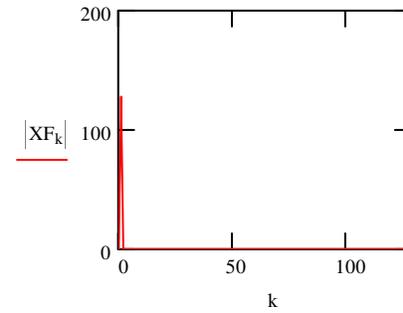
$$x_k := \sin\left(k \cdot 2 \cdot \frac{\pi}{N}\right) - i \cdot \cos\left(k \cdot 2 \cdot \frac{\pi}{N}\right)$$

Single complex tone.



$$XF_k := \sum_{m=0}^{N-1} x_m \cdot W^{m \cdot k}$$

DFT for reference



$$X_{N2 \cdot k1 + k2} := \sum_{m1=0}^{N1-1} W1^{m1 \cdot k1} \cdot W^{m1 \cdot k2} \cdot \sum_{m2=0}^{N2-1} x_{N1 \cdot m2 + m1} \cdot W2^{m2 \cdot k2}$$

Two Factor FFT

