

$$w_0 = k_{\text{shared}}$$

 w_1 K_1

$$m_1 = \text{Dec}(K_1, 1, c_1)$$

 w_1  w_2 K_2

$$m_2 = \text{Dec}(K_2, 2, c_2)$$

 w_2  w_3 K_3

$$m_3 = \text{Dec}(K_3, 3, c_3)$$