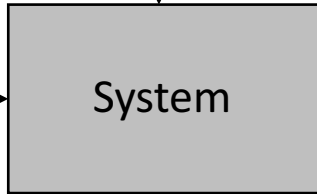


$$F_1 \sim \mathcal{N}(\mu_1, \sigma_1^2)$$



$$F_2 \sim \mathcal{N}(\mu_2, \sigma_2^2) \rightarrow \kappa_1 \rightarrow \text{System} \rightarrow F_3 = \kappa_1 \cdot F_1 + \kappa_2 \cdot F_2 \sim ?$$