

$$f(x_1, x_2) = \begin{cases} \overline{x_1} \\ x_1 \end{cases} \quad \text{for } n = 2 \text{ using 1 single PUF}$$

$$f(x_1, x_2, x_3) = \begin{cases} \overline{x_1 \oplus x_2} \\ x_1 \oplus x_2 \end{cases} \quad \text{for } n = 3 \text{ using 2 XORED PUFs}$$

$$f(x_1, x_2, x_3, x_4) = \begin{cases} \overline{x_1 \oplus x_3} \\ x_1 \oplus x_3 \end{cases} \quad \text{for } n = 4 \text{ using 3 XORED PUFs}$$