

Let  $(E,D)$  be a secure PRP,  $E: \mathbf{K} \times \{0,1\}^n \rightarrow \{0,1\}^n$ .

- XTS:  $E_{\text{tweak}}((k_1, k_2), (t, i), x) =$

$$N \leftarrow E(k_2, t)$$

