







Verify(

Digital Signatures









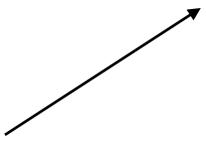




















Verify(









Security

Efficiency

k bits of (multi-user) security

preprocessing attacks

efficient signing/ verification

short signatures

Short Signature Schemes:



RSA-FDH **ECDSA** Schnorr **Short Schnorr BLS**

iO-based





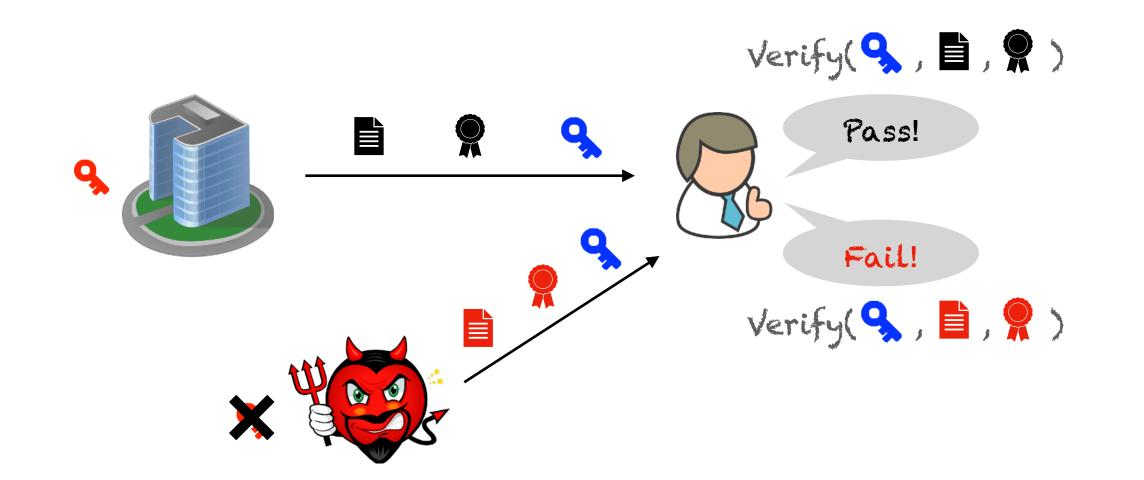






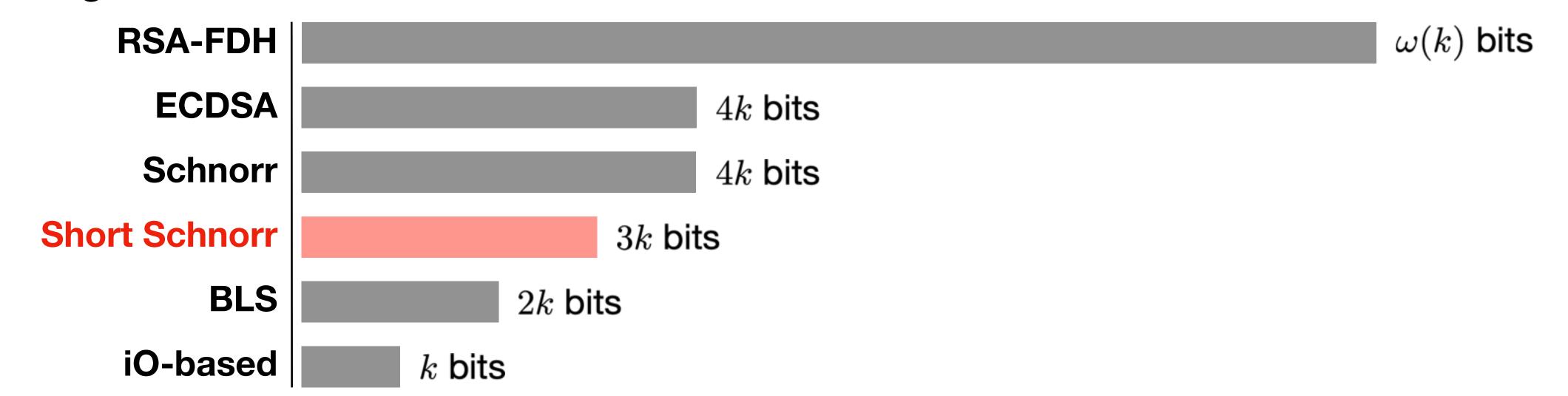


Digital Signatures



Security Efficiency k bits of (multi-user) efficient signing/verification preprocessing attacks short signatures

Short Signature Schemes:



The (Short) Schnorr Signature Scheme

Public parameters:

- $hd Group\ G = \langle g
 angle$ of size $p pprox 2^{2k}$, where k is the security parameter
- \triangleright Hash function $H: \{0,1\}^* \to \mathbb{Z}_p$

