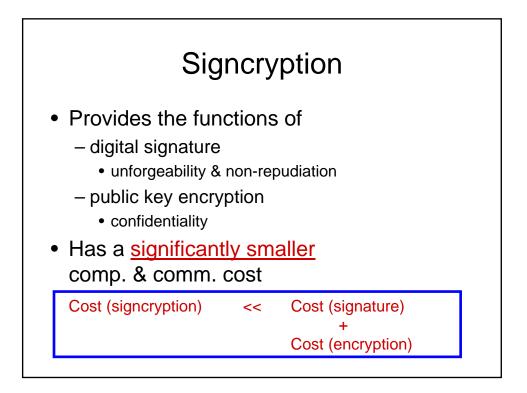
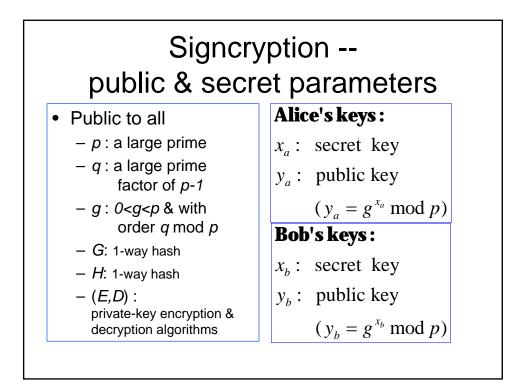
IEEE P1363 Meeting, UCSB 8/22/2002

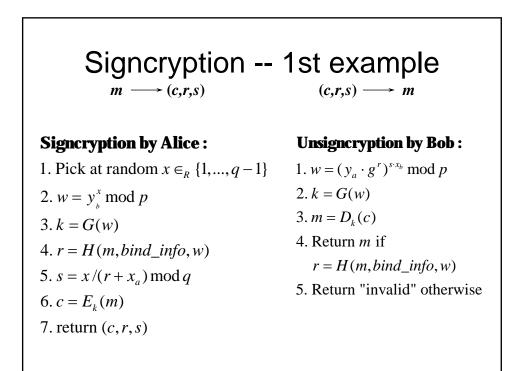
Updates on Signcryption

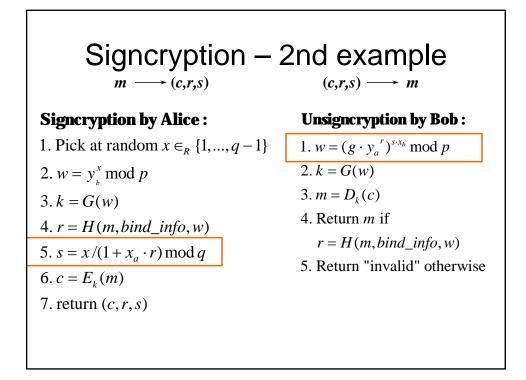
Yuliang Zheng UNC Charlotte

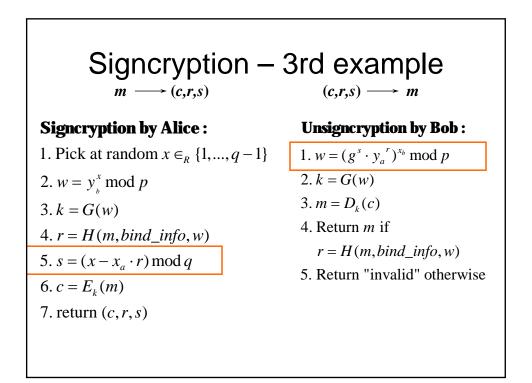
www.sis.uncc.edu/~yzheng yzheng@uncc.edu

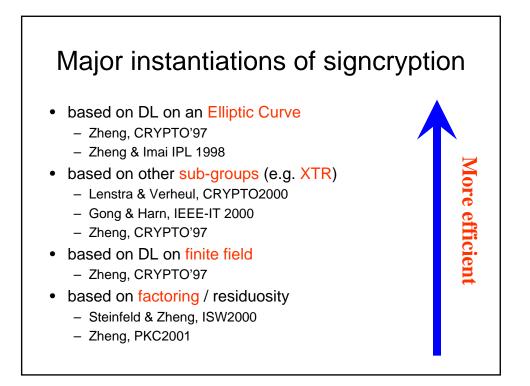


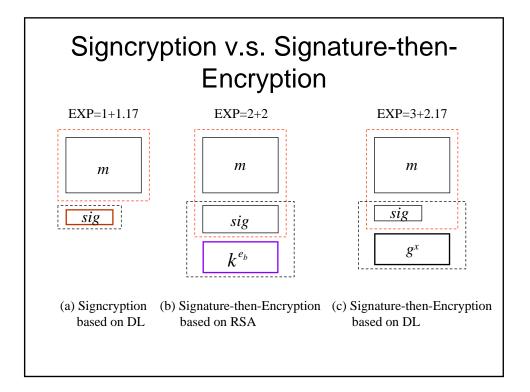


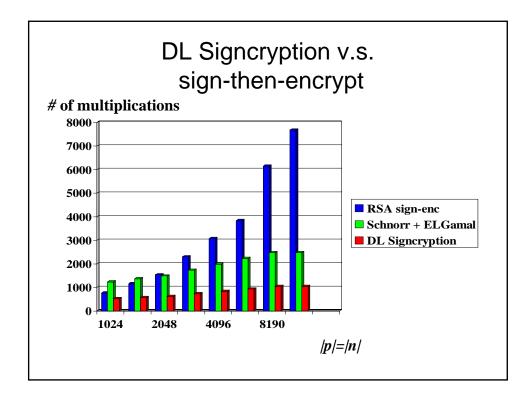


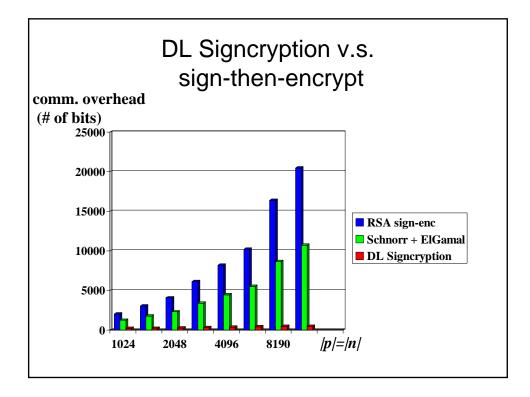






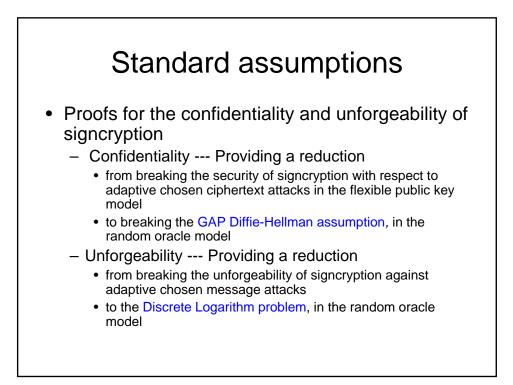






Security Proofs

- Analysis given in the Crypto'97 paper was informal
- In 2001,
 - Rigorous proofs (reductions) established
 - Results presented at PKC02 in Paris, Feb. 2002
 - Proof techniques applicable to signcryption schemes based on DL and EC



Updated documents

 Full version of the proof paper and updated descriptions of concrete signcryption schemes will be submitted to the IEEE P1363 website

Other developments

- Security proofs for combined signature and encryption including signcryption
- Parallel signcryption
- ID-based signcryption
- Threshold signcryption

Suggestions

- IEEE P1363 consider to standardize signcryption and other hybrid/combined schemes
- IEEE P1363-3 ?