Material

Crypto II:

20

It's not safe for Bob. Alice could have him sign anything.

or makes the probability of Bob being duped as small as he wishes. Cut and choose solves this

- 1. Alice produces ten documents and blinds each one.
- Bob nominates nine of them to be unblinded. He checks he's happy with the content, then signs the tenth. તં
- Alice unblinds that document; now she has a document signed by Bob. က်
- in principle, vulnerable to something like the Birthday Book attack

Applications of blind signatures

- secure e-cash (see later)
- electronic voting
- more esoteric versions: oblivious signature protocols exist (do they have applications?)
- Alice has n messages; Bob can choose one of these for Alice to sign, and she has no way of knowing which one

Alice has one message and n keys. Bob can select a key for Alice to use, and she has no way of knowing which one she used.

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Contract Signing

how to get Alice and Bob to commit to a contract simultaneously from a distance?

partics; neither can end up being bound without the other also Goal: both end up with a copy of the contract signed by both being bound

algorithmic certainty cannot generally be achieved; these s work on probabilities protocol

- a trusted third party use
- a bitwize (characterwise) synchronization use