

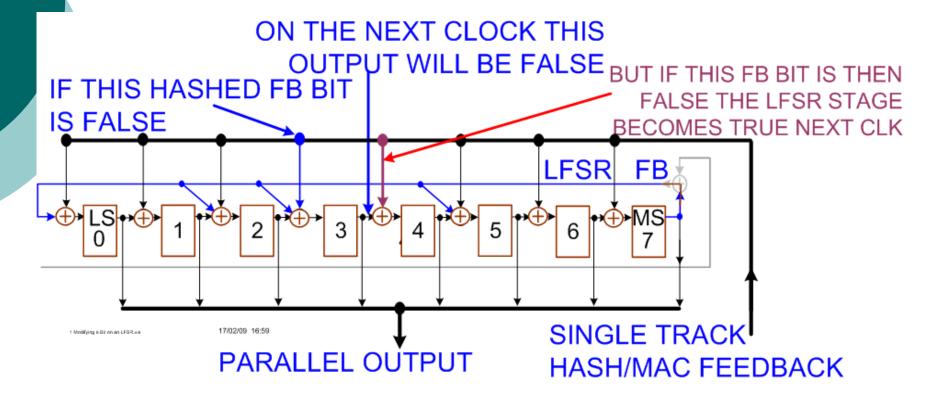
"Precluding Message Modification

with Two 32 Bit Orthogonal

Feedback Tracks"

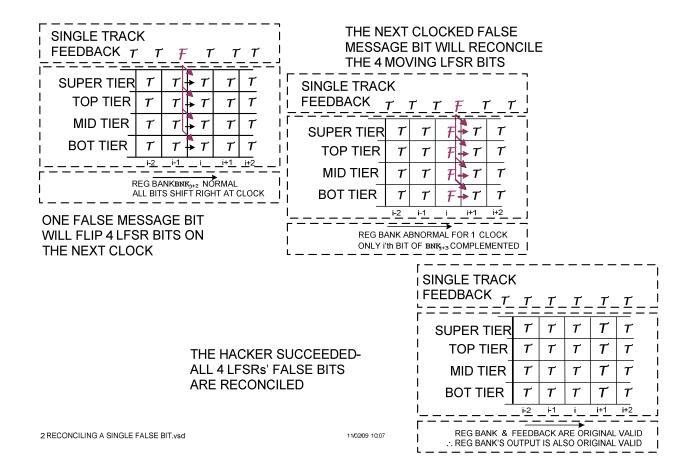
an Important ZK-Crypt Artifact

THE HACKER'S DELIGHT



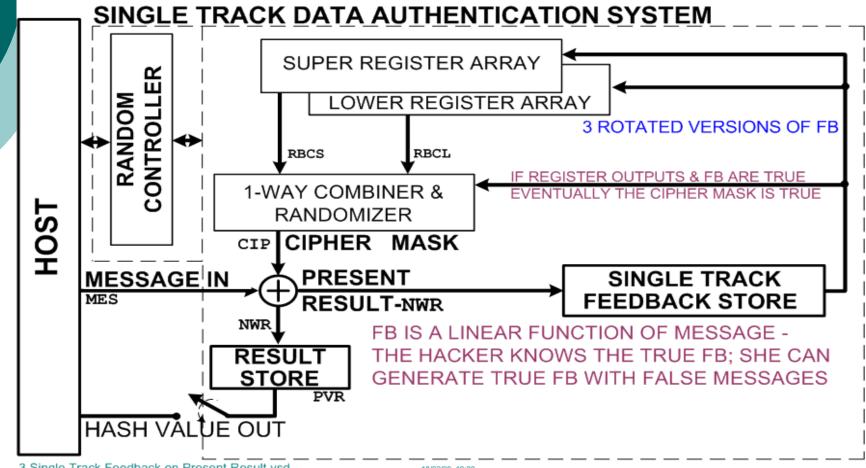
WE ASSUME THE HACKER CAN CHANGE FB BITS AT WILL

Single Track FB Corrupting & Reconciling 4 Tiers of Simultaniously Clocked LFSRs



WWW.FORTRESSGB.COM RUMPSESSION

Hacking a Single Track Feedback



3 Single Track Feedback on Present Result.vsd

18/02/09 10:39

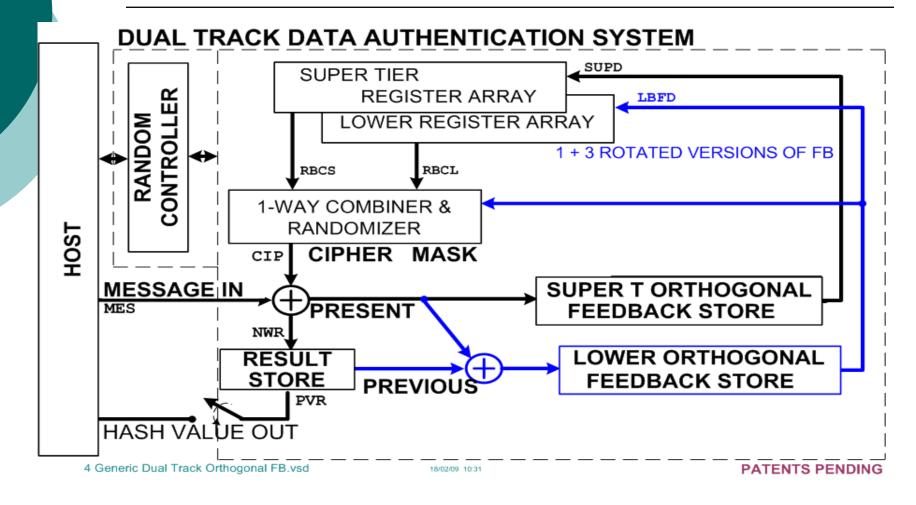
Max-Did you ever hear of Orthogonal Feedbacks?

We define two linear affected Message streams as Orthogonal

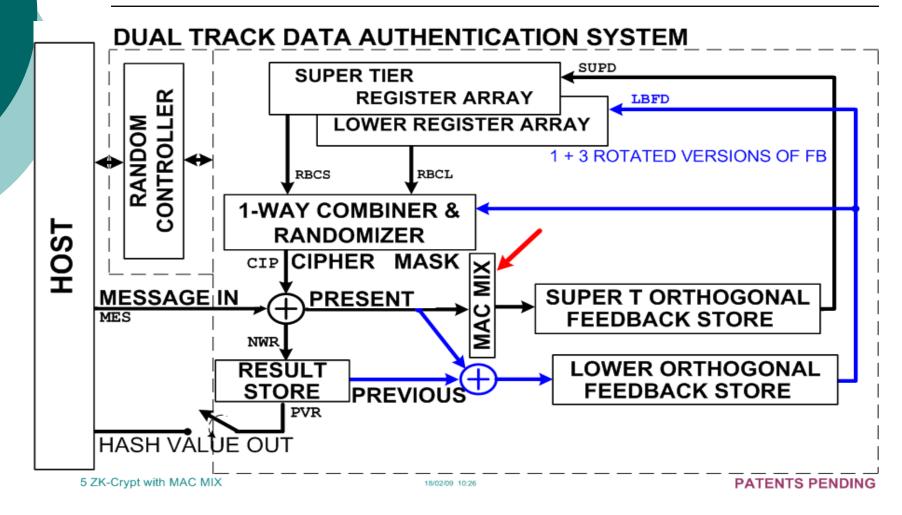
iff a sequence of Message words causes one FB stream to successfully corrupt and reconcile one cascading data section (eg, in the ZK-Crypt the Register Bank LFSRs)

and same Message word simultaneously irreconcilably corrupts a second cascading section in the Hash/MAC device (eg, in the ZK-Crypt, parts of the Register Bank & also to the Data Churn)

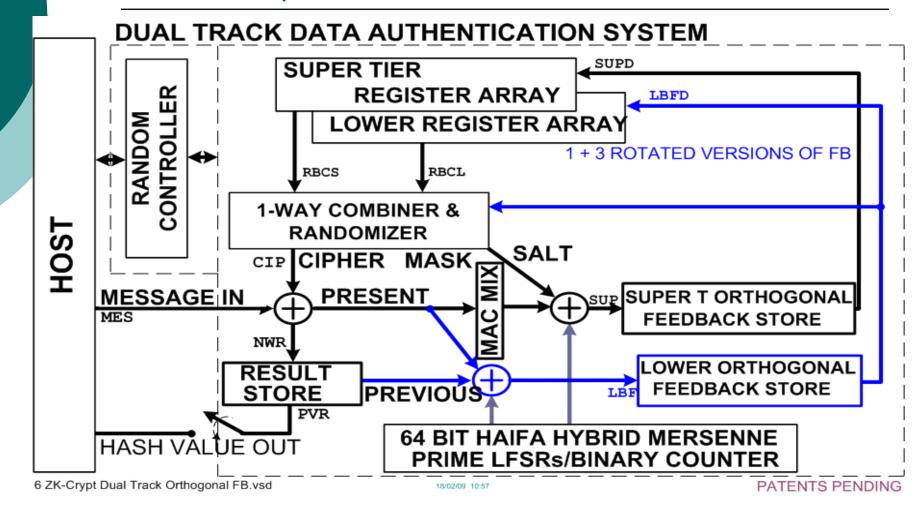
Generic Dual Track Orthogonal FB Streams



Dual Track with MAC MIC Decorrelator

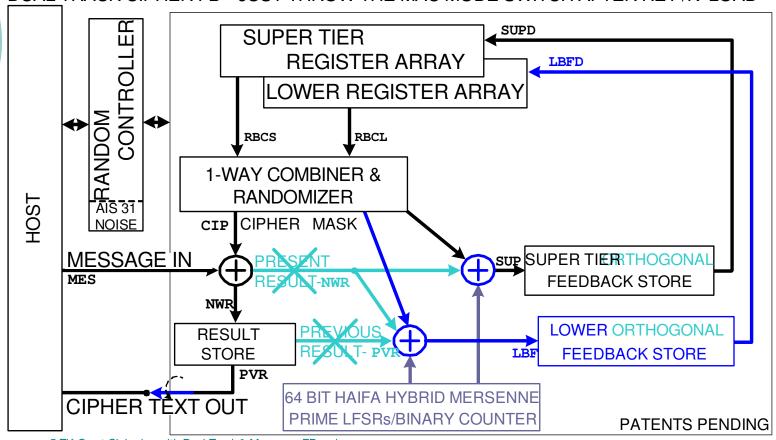


After 4 Clocks If The SALT is False We Know Randomizer is Corrupted If by Fluke SALT is True We Know LWR FB is False - Chap 5



HI Diffusion Hash PRF → Best of Breed HI Speed Stream Cipher

DUAL TRACK CIPHER FB - JUST THROW THE MAC MODE SWITCH AFTER KEY /IV LOAD



5 ZK-Crypt Ciphering with Dual Track & Mersenne FB.vsd 11/02/09 17

Expand Don't Compress - the We can get you on the right tracks.

Thanks to Orr for Taking Aim at a Moving Target -

Thanks to all of you for listening-

The ZK-Crypt Design Group - FortressGB

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Expand Don't Compress -

