

THUMICE

Row hammer attack:

→ aggressor How
→ victim nows

Read Section 2.2

Read section & for LH attack

-> Lounters in RCD, not memory controller

L> Even if DIMMs are empty, then we should still maintain Counter

: Refush window

Each now must be sefreshed once

Refush unlowal >?
Refush command >?

ARC: Read cycle time -> Perform one act

RH detection thrushold

th PI: Pouring suterval Arreshold.

* Total acts possible per refresh poind = IREFW

* Total aggressor nows from defeath freind = treew

trex. The

Non = # acts for a grananteed

list flip

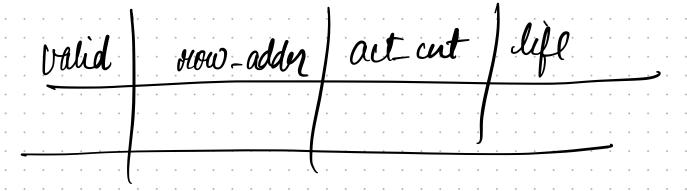
* Total victim yours = 2 & REFW & TRC × Nya

thruc Nu

A Only 20 yours can be enposed to RHallack from a bank in the dwation tref

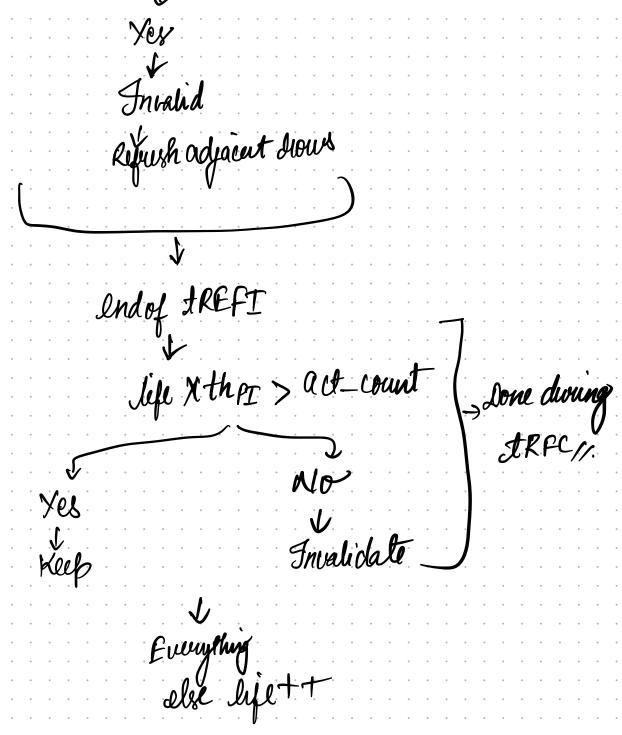
5 So we need only 20 countres.

-> th PI -> Remove if not act within this



- > Each now must be represhed once every FREFW
- -> For successful attack, act > thRH within AREFW

Act -> check table \(\rightarrow \text{No -> valid=1} \)
\(\text{act_count=1} \)
\(\text{act_cut > theth} \)



lovuetness of twice:

Proof of RH prevention.

The number of acts to lack now over IREF W cannot laced the three without being detected:

count not track -> Man act without getting detected.

Retain in table > act cut > the xilfe

court-not track > must be does than the x life

Life over suffer window = LREFW

TREFI

THEFI

THEFI

Loutnot track < the X LREFW

LREFI

LOUTNOT track < the X LREFW

LREFI

MAGE A. LEECH

marky = AREFW trefI

thpI = thrh trefw/trefI

countrate < the x life

L their x trefu = then

trefI

Countrol track < the RH

Countrack < first

| Combined = Court not_track + Count track < the H+ the RH | |
|--|--|
| w aggresson -> | |
| Joult: How did we make the jump from this to the 1/2 logic? | |
| nter Table size: | |
| $man_{aut} = \frac{tREFI - tRFC}{tRC}$ | |
| (wo types entrus 1) Newly unserted in the tweet PT 2) From previous PI | |
| New entries is bounded by manact This I didnot undowstand fully. | |