*we

*reset

*refresh_cmd

*refresh_clk

*ras

*passed

*out_data

*need_refresh

*in_data

*in_add

*failed

*dqm

*cyc_cnt

*cs

*cas

*bs

/top

@0

$reset=

|sdram

@0

$bs=

$cas=

$cs=

$dqm=

$in_add=

$in_data=

$need_refresh=

$out_data=

$ras=

$refresh_clk=

$refresh_cmd=

$we=

@1

@2

@3

@4

@5