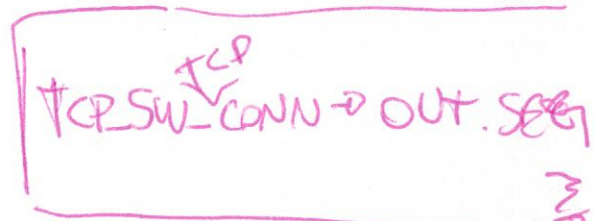
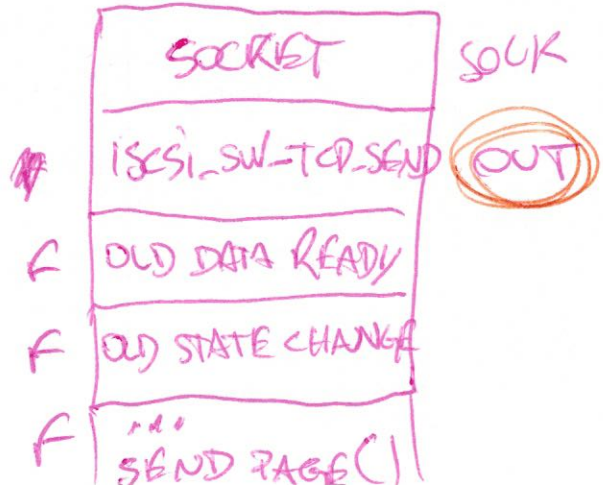


↳ **ISCSI_TCP_CONN**



ISCSI_SW_TCP_CONN



ISCSI

EVENT

ISCSI_UEVENT_BIND_CONN:

TRANSPORT → BIND_CONN

ISCSI_TRANSPORT

↳ ISCSI_SW_TCP_TRANSPORT

BIND_CONN = SW_TCP_CONN_BIND
GIVEN: CLS_SESSION
CLS_CONN

~~TRANSPORT~~

SW_TCP_CONN → SOCKET = SOCKET_LOOKUP

SOCK → SK

SET SW TCP CALL BACKS

⊗ = SK_DATA_READY

- SK_STATE_CHANGE

- SK_WRITE_SPACE

ISCSI_TCP_HDR ~~RECV~~ PREP

ISCSI_SW_TCP_DATA_READY()

TCP_READ_SOCKET() → CALLS BACK

ISCSI_SW_TCP_RECV()

ISCSI_TCP_RECV_SKB
WHILE STATUS ≠

ISCSI_TCP_SKB_DONE

SEG_DONE

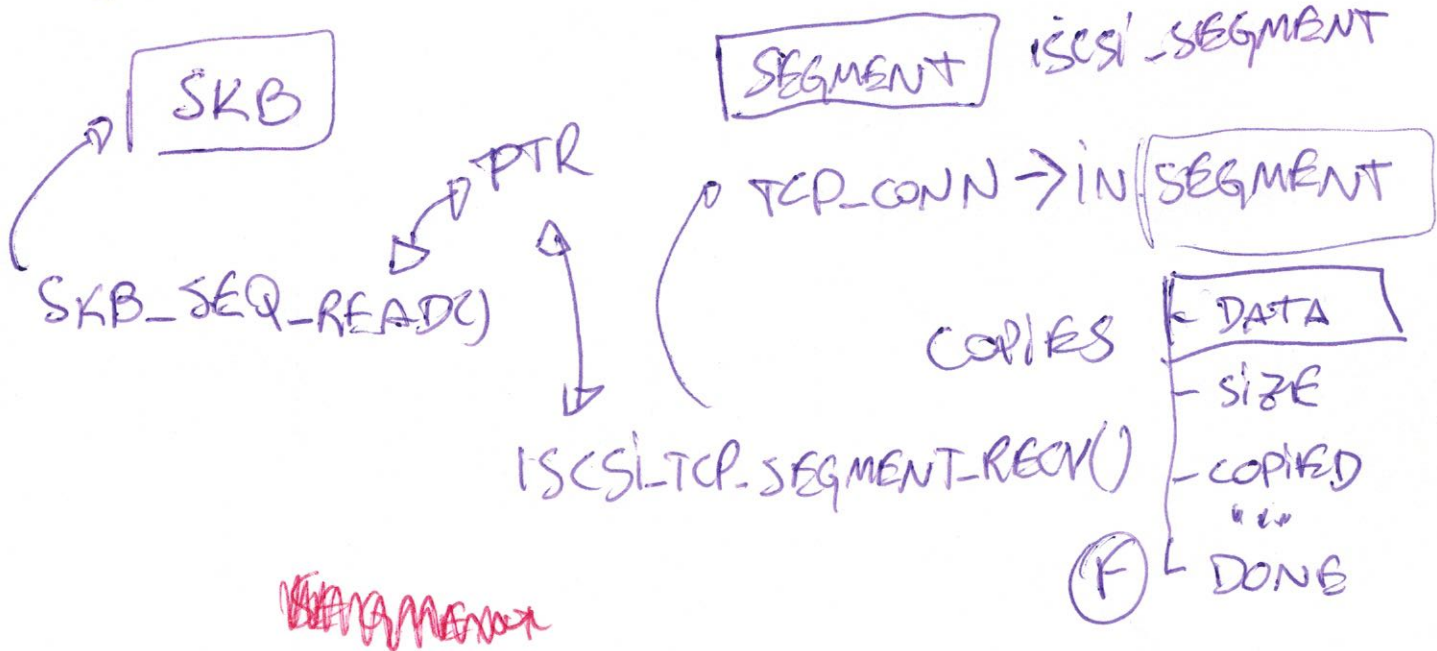
SKB_DONE

IN_SEGMENT → DONE



#3

ISCSI_TCP_RECV_SKB () ?



QUEM CONSUME TCP_CONN -> IN.SEGMENT -> DATA

ISCSI_TCP_HDR_RECV_PREP()

ISCSI_SEGMENT_INIT_LINEAR() -> IN.SEGMENT

CALLBACK

ISCSI_TCP_HDR_RECV_DONE



CALLBACK

SEGMENT_DONE()

ISCSI HDR
OPCODE

TCP_CONN -> IN.HDR_BUF
ISCSI_TCP_CONN

CALLS ISCSI_TCP_HDR_DISSECT



#4

TCP_HDR-DISSECT()

(HDK) COMES WITH ^{THE} PDU

HDK → OPCODE

- DATA-IN
- SCSI_CMD_RSP
- R2T

LOGIN or
TEXT_RSP or
REJECT or
ASYNC

HDK → ITT

INITIATOR TASK TAG

→ USADA PARA ACHAR UMA

TASK, ENVOLVIDA, DE

OPCODE =

SCSI_CMD_RSP

SESSION →

CMD[S[]]

→ iscsi_tcp_data_recv_prep()

PODE CHAMAR O

→ SYNC?

ESPERANDO
RETORNO

iscsi_complete_pdu

→ iscsi_segment_init_linear()
CALLBACK
→ iscsi_tcp_data_recv_done()

FOR SOME OPCODES:

- iscsi_recv_pdu

ORDER:

TCP_HDR-DISSECT

→ OP CODE = CMD_RSP?

→ COMPLETE_PDU

→ OP CODE = CMD_RSP?

- LOOK FOR TASK, CHANGE STATUS



- COMPLETE TASK

COMPLETED

#5

QUEUE → TIMEOUT_WORK

WORK STRUCT → BLK_TIMEOUT_WORK

CALLS

BLK-RQ_TIMED_OUT_TIMER(): → PER DEVICE'S REQ QUEUE

SCHEDULES

QUEUE → TIMEOUT_WORK

INTO

KBLOCKD-WORKQUEUE

WQ

POINTS

CALLS

BLK_TIMEOUT_WORK()

FUNCTION

→ CHECKS { QUEUE → TIMEOUT_LIST
→ CHECKS { IF REQUESTS ARE EXPIRED:
- BLK-RQ-TIMED_OUT() → *WEN DO DEVICE*
↳ CALLS QUEUE → RQ_TIMED_OUT_FN

↳ ~ "scsi-TIMES-OUT"
SET IN scsi-OLD-ALLOC-QUEUE

discsw implements

→ CHECKS HOST LAST RESET

→ USES HOST'S EH-TIMED_OUT()

NOTHING
AGAIN
BLK-ADD-TIMER()
BLK-CLEAR-RQ-COMplete()
BLK-COMplete-REQUEST()

EA-HANDLED - FIXED, COMPLETE CMD

EH-RESET-TIMER - NEED MORE TIME

EH-NOT-HANDLED - BEGIN RECOVER

#6

SCSI-ALLOC-SDEV()

SETUP

↳ SCSI-OLD-ALLOC-QUEUE()

QUEUE → REQUEST_FN = SCSI-REQUEST-FN

BLK-EXECUTE-RQ-NOWAIT

TRIGGER

↳ --BLK-RUN-QUEUE

↳ --BLK-RUN-QUEUE-UNCOND

↳ QUEUE → REQUEST_FN() = SCSI-REQ...-FN

SCSI-REQUEST-FN()

↳ BLK-START-REQUEST → BLK-ADD-TIMER^{#6}(REQ)
↳ SCSI-DISPATCH-CMD(CMD)

#7