

BLK_REQ_TIMED_OUT()

STRUCT REQUEST

REQ → SCMD

REQ QUEUE → RQ_TIMED_OUT_FNC()

SCSI_TIMES_OUT()

Host → Host → EH_TIMED_OUT()

ISCSI_EH_CMD_TIMED_OUT()

{ session → STATE ≠ LOGGED
SYSTEM-STATE ≠ RUNNING

← BLK_EH_NOT_HANDLED

STRUCT SCSI_CMD
SCSI_ABORT_COMMAND()

SCMD → EH_FLAGS = SCSI_EH_ABORT_SCHEDULED

TMF-WORK-Q (SCSI-TMF-1.D)
HOST

ABORT-WORK

SCMD

SCMD-EH-ABORT-HAND

← SUCCESS



SCMD - EH - ABORT - HANDLER ()

SCSI_TRY_TO_ABORT_CMD ()

HOSTT → EH_ABORT_HANDLER ()

ISCSI_EH_ABORT ()



SYSTEM-STATE ≠ RUNNING
SESSIONS → STATE ≠ LOGGED

- FAIL_SCSI_TASK ()
TASK FROM SCMD

SUCCESS

SET_HOST_BYTE (DIDTIMEOUT)

SCSI_FINISH_COMMAND ()

NOTIFYING UPPER DRIVER
SCSI_IO_COMPLETION ()

SCSI_DONE FROM SCSI_CMD

#1 ON ERRORS, USUALLY: `iscsi_complete_task()` → `iscsi_put_task()`
→ `iscsi_free_task()` → `SCSI_DONE()`

↳ `blk_complete_request()`

↳ `blocksoftirq` ✖
FOR SPECIFIC COMMANDS

`iscsi_tcp_hdr_dissect`

↳ `iscsi_complete_pdu`

↳ `iscsi_complete_task`

↳ `iscsi_put_task`

↳ `iscsi_free_task`

↳ `SCSI_DONE`

↳ `blk_complete_req`

↳ `blocksoftirq`

`blocksoftirq`

→ COMPLETES I/O
OR RE-SCHEDULES

#2

↓
NETWORK

#3

BLOCK DEV
TIMEOUT

QUEUE → `TIMEOUT_WORK`

↳ `blk_timeout_work()`

↳ `blk_rq_check_expired()`

↳ `blk_rq_timed_out()` *api*

↳ `rq_timed_out_func()`

↳ `complete_rq` `blocksoftirq`

↳ `clear_rq_complete`

↳ RESETS TIMER ONLY

REQ QUEUE ⇒ `SCSI_TIMES_OUT()`

TIMEOUT FOR NORMAL SCSI CMDS →

~~SOFTIRQ~~ BLOCK-SOFTIRQ → BLK-DONE-SOFTIRQ()

↳ STRUCT REQUEST RQ = LOCAL_LIST IPILIST

~~RQ~~ → ~~Q~~ → SOFTIRQ-DONE-FN() = SCSI-SOFTIRQ-DONE()

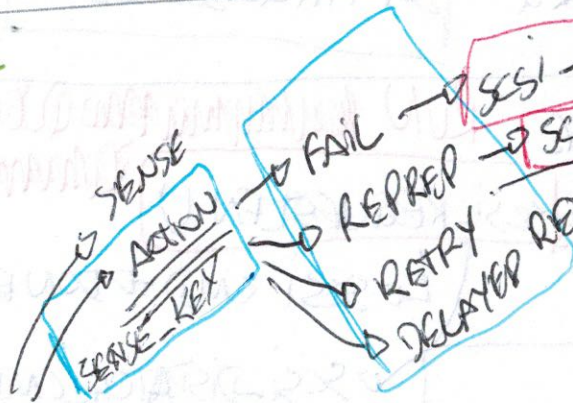
SCSI-OLD-ALLOC-QUEUE()

hot end tool

WORKED?
FALL

~~SCSI-SOFTIRQ-DONE()~~
CMD
RQ

STATUS CODE
FROM LOWER
LEVEL



SCSI-END-REQUEST
SCSI-REQUEUE-COMMAND

SCSI-QUEUE-INSERT
RETRY SOME

BASED ON SCSI CMD
SENSE

SCSI-DECODE-DISPOSITION()

SUCCESS

SCSI-FINISH-COMMAND() → SCSI-IO-COMPLETION

NEEDS RETRY →

SCSI-QUEUE-INSERT() → SCSI-MLQUEUE-EH-RETRY

HOST IS BUSY

DEVICE QUEUE FULL

ADD-TO-MLQUEUE

SCSI-QUEUE-INSERT() → SCSI-MLQUEUE-DEVICE-BUSY

DEFAULT

SCSI-EH-SCMD-ADD

↳ ZERO CMD RESULT
BLOCK-REQUEUE-REQUEST
↳ DELETE TIMER
↳ CLEAR COMPLETE
↳ ELN-REQUEUE-REQUEST