

⊛ CHANGING EH_TIMEOUT TO RETURN BLK_EH_NOT_HANDLED INSIDE SCSI_TIMES_OUT():

- RUNS SCSI_ABORT_COMMAND(SCMD);

OK ↗

RETURNS

BLK_EH_NOT_HANDLED

↗
BLK_RQ_TIMED_OUT()

- NOTHING ...

- TASK WOULD STILL BE WAITING

NOT OK ↘

ESCALATES TO NEXT LEVEL:
SCSI_EH_SCMD_ADD

SCMD = DID.TIME_OUT
SCSI_EH_SCMD_ADD(SCMD)

- SHOST = SHOST_RECOVERY
- SHOST_LAST_RESET = JIFFIES
- RESETS SCMD EH
- ADDS SCMD → EH-ENTRY TO SHOST → EH_CMD_Q
- SHOST → HOST_FAILED ++
- KICKS SHOST EH WORKER

KTHREAD SCSI-TMF-① SCMD → ABORT_WORK = SCMD → EH → ABORT HANDLER

#3 BLOCK DEV TIMEOUT

RQ_TIMED_OUT_FUNC() = SCSI_TIMES_OUT()

BLK_QUEUE_RQ_TIMED_OUT() SETS

RETURNS ⊗

BLK_ADD_TIMER()
CHECKS FOR IT

BLK_QUEUE_RQ_TIMED_OUT()
SETS IT

BLK_RQ_TIMED_OUT()

↳ CHECKS IF EXISTS
CALLS IT

START

QUEUE_TIMEOUT_WORK

↳ BLK_TIMEOUT_WORK()

↳ BLK_RQ_CHECK_EXPIRED()

↳ BLK_RQ_TIMED_OUT()

⊗ BLK_EH_HANDLED

- BLK_COMPLETE_REQUEST()

⊗ BLK_EH_RESET_TIMER

- BLK_ADD_TIMER → BLK_CLEAR_RQ_CON

⊗ BLK_EH_NOT_HANDLED

- NOTHING

// "FIXES THE ISSUE"

↳ softirq() → SCSI_SOFTIRQ_DONE()

⊗ →