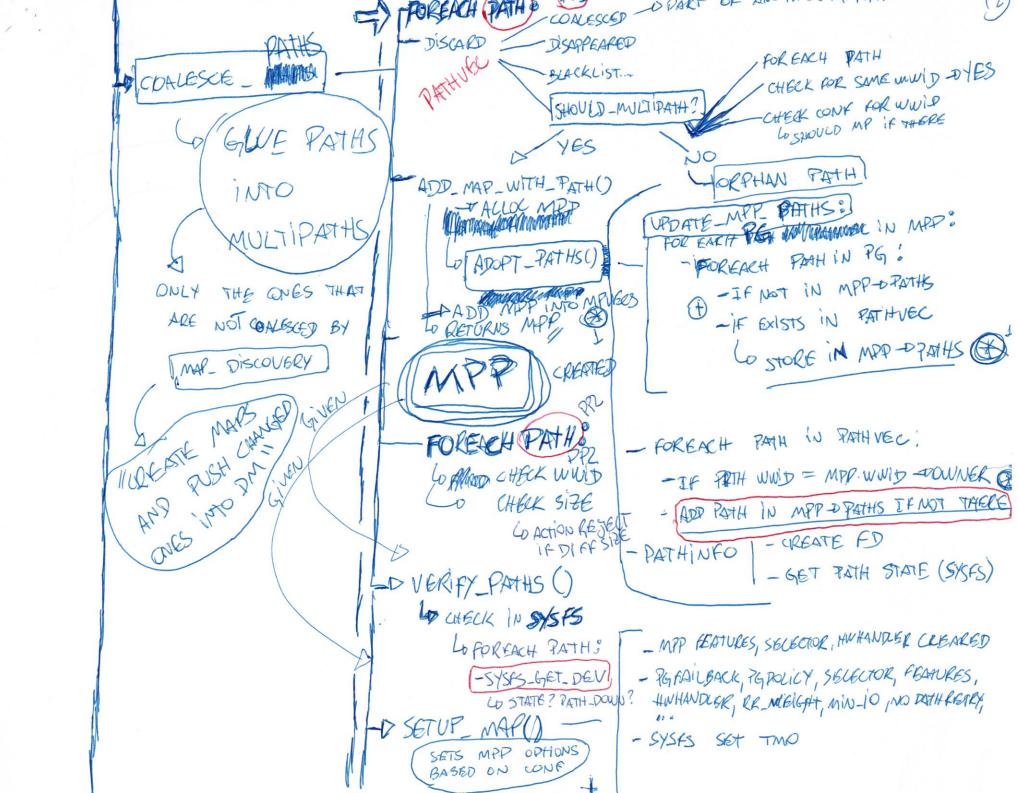
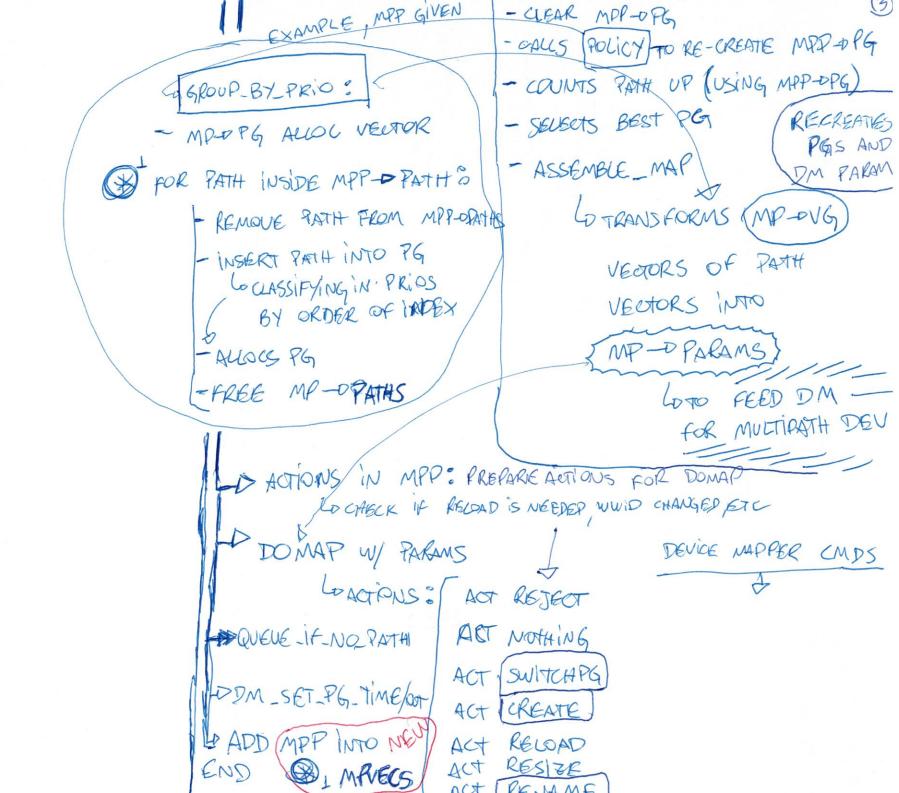
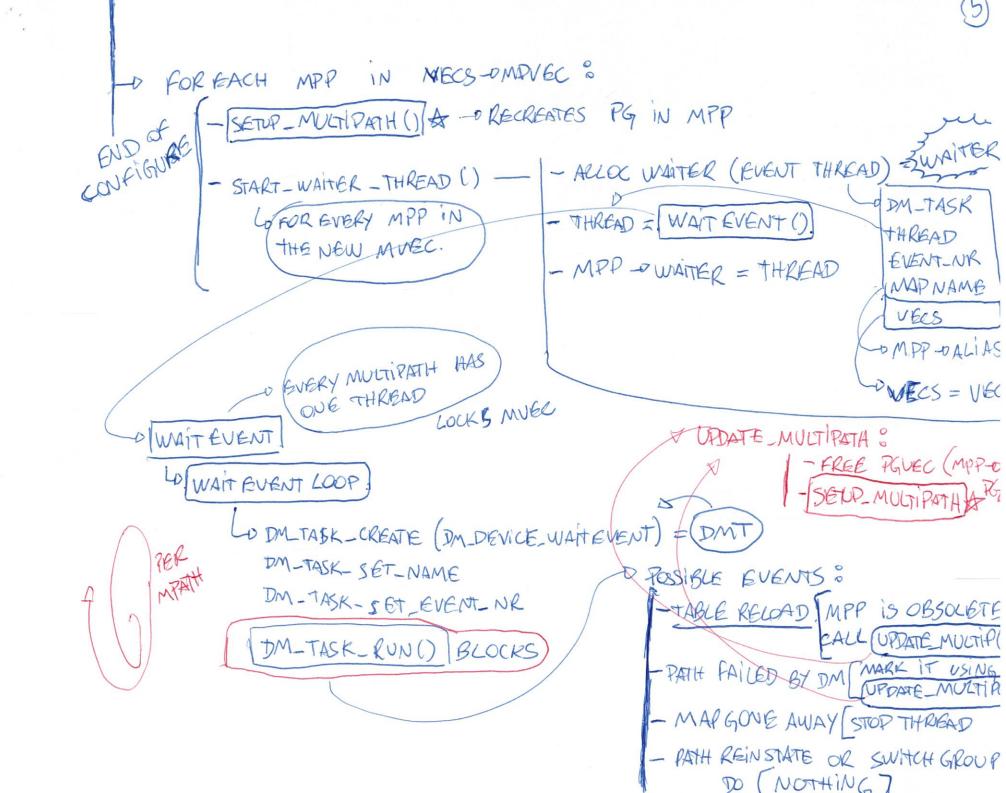
MULTIPATH INTERNALS

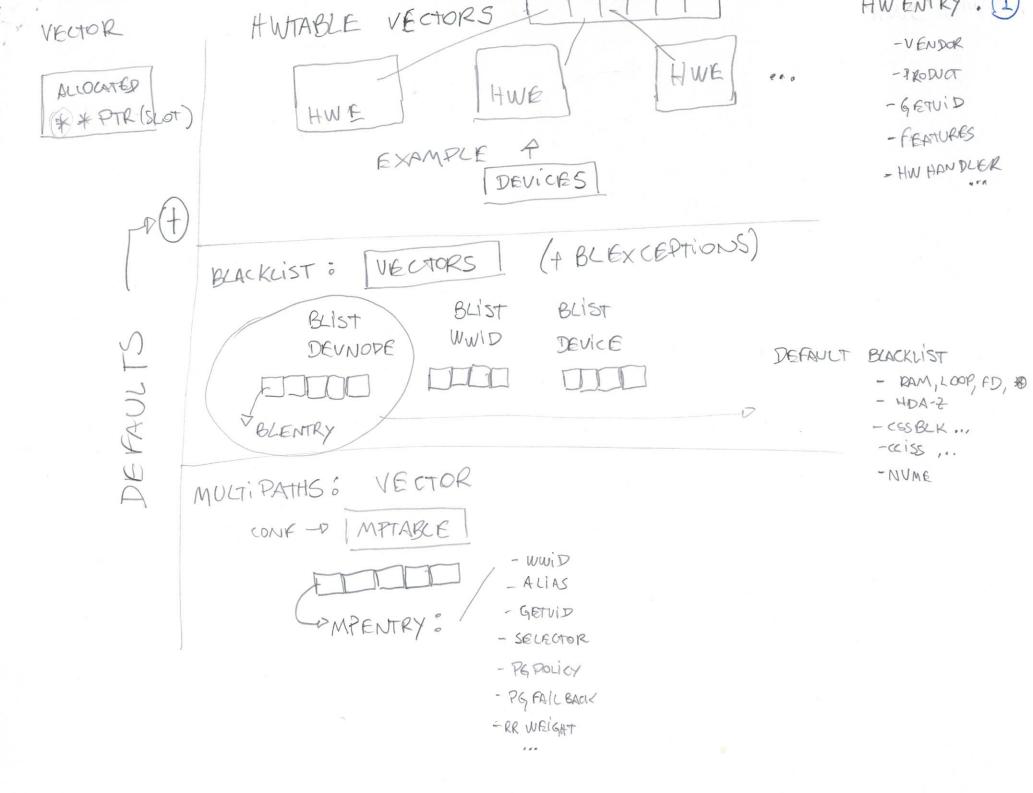
CHILD () To and and completely plans LO INT CHECKERS, PRIO LO PID, SIGNAL, SCHED L Sur LO STARTS VENENT LOOP PATH CONFIGURE JOHNSU RATES ALLOC RATHVEG MPVECS - UDEV BNUM "LLOCK" - PATH_ DISOVER() UDEVICE PATH DISCOVERY LD STORE_PATH_WFO () ~ PATHVEC Conference of & PATH_INFO of Garat RAH EROB) DM-DEVECELLIST REMOVE BLOCKL PATHS - PLACE MPP IN MPVEC JED IF: DM_TYPE = TGT_PATH LOM_GET_MAPS DIMAP DISCOVER SETUP_MULTIPATH) A FOREACH MPP JOPULATES - FREE MP-OPG LOCHECK INFO NEW LO CHECK DM_MAP -O DM "FABUS" QUPDT MP TABLE MPVEC UPDATE - MULTIPATH_STRINGS CUPDIMP STATUS - RR-WEIGHT, PGFAIL BACK - NO PATH RETRY, ... CHECK EXISTING -HW HANDLER DM-667_MAP DATH GROUPS TCREATE MRATH TABLE -15T PG TO TRY PGS DISASSEMBLE_MAP - PATHS TO CONSTRUCT IN MPP - SELECTOR FEATURES, PGS P65 2 M-GET STATUS -PG STATUS, FAIL CUT DISASSEMBLE-STATUS - SELECTOR

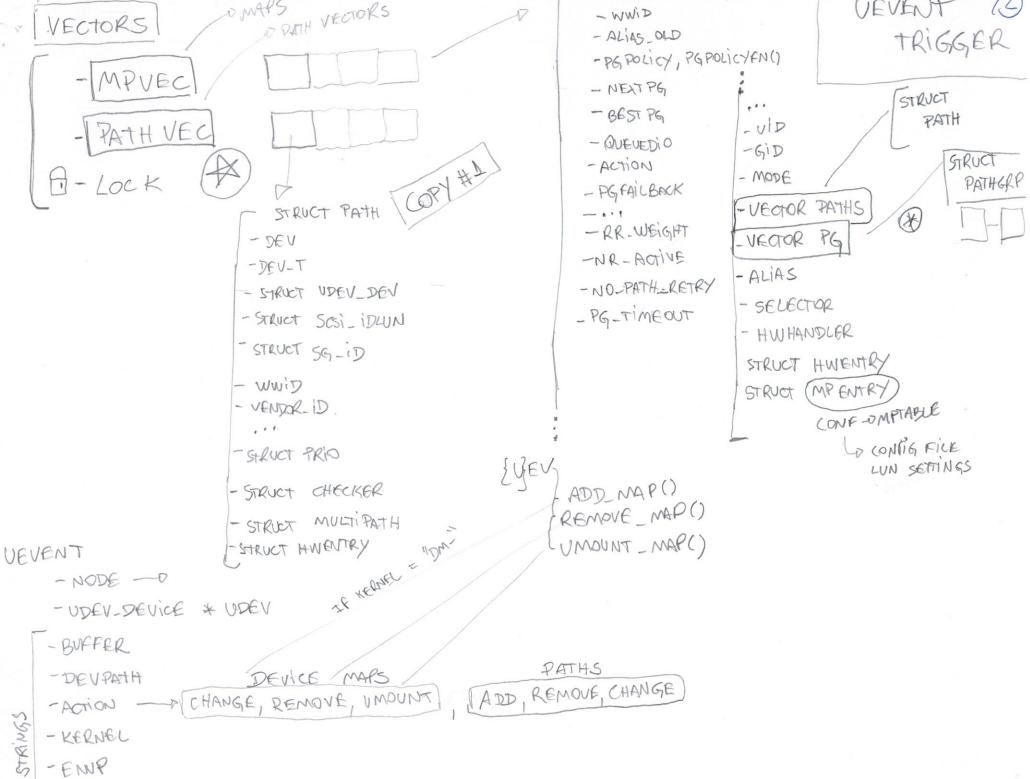


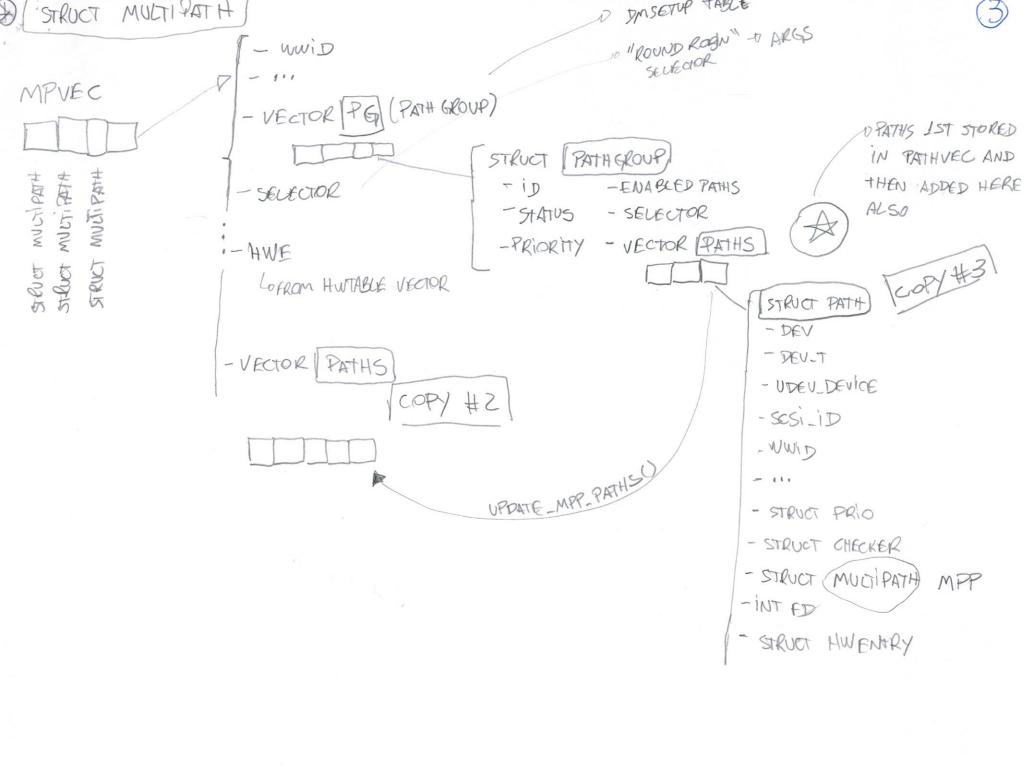


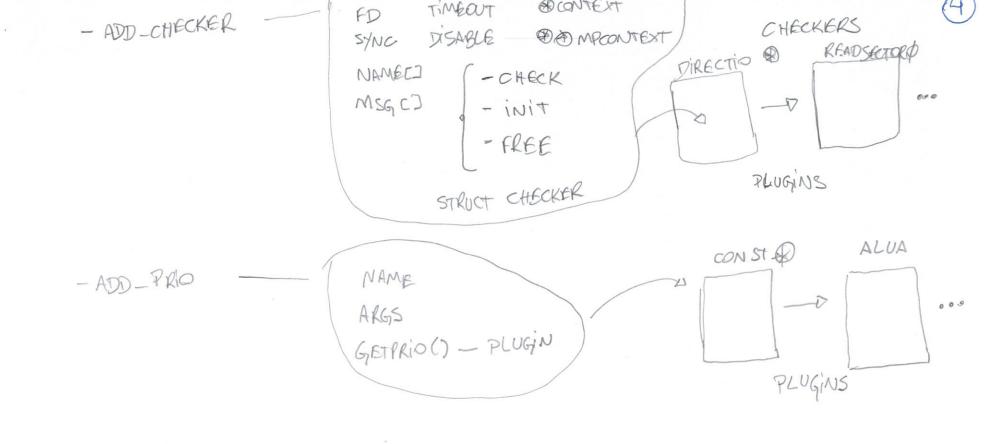
STOP WATTER THREAD TO FOREACH MPPIN MPVECS: NEW MPVEC ORPHAN - PATHS CKBANUP AT REMOVE "DEAD MAP" DEL FROM MPP THE END LOMPPOPG OPATHS DEV STRUEN (= 0 OREMOVE-MAP() MAPS WITH DIEAD DM_PZUSH_MAPC) PATHS LEND OF COALESCE - MAPS PATAS COALESCE _ MAPS FOR EACH OFFERDAM IN OLD MAVEC: PLIMPATH RECREATES - TRY FIND OLDMPATH IN NEW MEC MAY NEED TO MPVEC REMOVE MARS FROM "VECS" LYMAND NO ? 3 - REMOVE MARS NOT ALLOWED BY CURRENT CONFIG EG. CHANGES IN, GIVEN TO DM_FLUSH_MAP (OLD MAPTH) CONFIGURE BLACKLIST REMOVES MPP FROM OVECS LO ERROR ? DEVICE IS OPENED GO FUT OLD MPATH. INTO NEW MPURC LOWEFTONERS TO RUN (SETUP_MUCTIPATA) - PREMOVE - MAPS (VEGS) - DEL ODDMATH FROM OLDMPVEC LOOK ? DEVMAP REMOVED LO MANTANAGE VECS-DMPVEC CLEARED VECSTOMPUEC = NULL NEWLY DVECS -PMPVEC = MPVEC

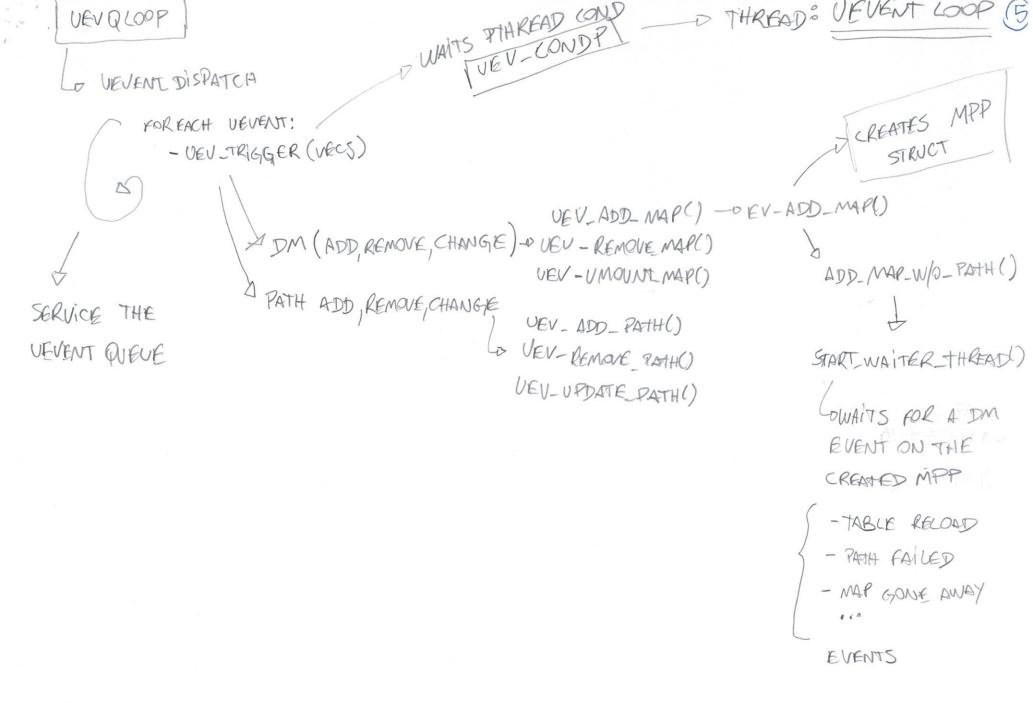












CHECKER LOOP () & VECS CHECK_PATH () NEWSTATE = PATH_OPELINE(), -D FOR EACH PATH IN PATHVECS CHECKS SYSYS LOPATH - PCHECKINT = CONF > CHECKINT LOIF PATHLUP: NEWSTATE = GET_STATE() D WHILE (1): N STATE CHANGED - D SELECT CHECKER () - LOCK VECS OCHECKER SET FD () - ITICK" -OCHECKER WITC) - FOR EACH PATH IN PATH VECS -D STATE = CHECKER LHECK! - CHECK - PATH () RETURN STATE DEFERRED_FAILBACK_TICK () -DIFMENSTATE + PP-DSTATE) - FOREACH MULTIPATH IN MPUEC: adstate = PP-05TATE ? MPP-OFALBACK_TICK--IF NEWSTATE = PATH-BOWN NO TICK AND NEED_SWITCH_PG()? UPDATE_MULTIPATH - STRINGS USING PP-PMPP AND PATHVE 4 SWITCH PATHGROUP () LATE OLD STATE = PATHLUP RETRY_COUNT_TICK() LO FAIL - PAHH (PP) ? FEDERSTATE NOT PATH-UP! LO DISABLES QUEUE IF NO PATH BASED ON "RETRY_TICK" LO REINSTATE_PATH (4)0) PER MPP MCHECK FAILBACK AND GARBAGE COLLECTOR ON MPUEC (SWITCH PATH GROUP IF NEEDEL ENABLE (PG) IF NEWST=UP UNLOCK VECS

DISAPENCED AGARBAGE COLLECTOR: FOR EACH MPP IN MPVEC & Lif JM_MAP_PRESENT FAILS: 4 REMOVE MAP AND STOP WAITER () - ITAREAD CANCEL (MIPSTHREAD) ORPHAN_PATHS (MPP) FOR ALL RATHS, PP-DMPP = NULL HDEL MPP FROM MPVEC

FREE MULTIPATH

- DELSE IF! NEWSTATE = UP. LOPP-DTICK = PP-DCHEEKINT A PERIF: (NEWSTATE = DOWN Lo 6060) - PATH - STATE = NEWSTATE - PATHINFO (PP) LOGIC TO SWITCH PG BASED ON PGFAILBACK, FAILBACK,

TICK OF MPP