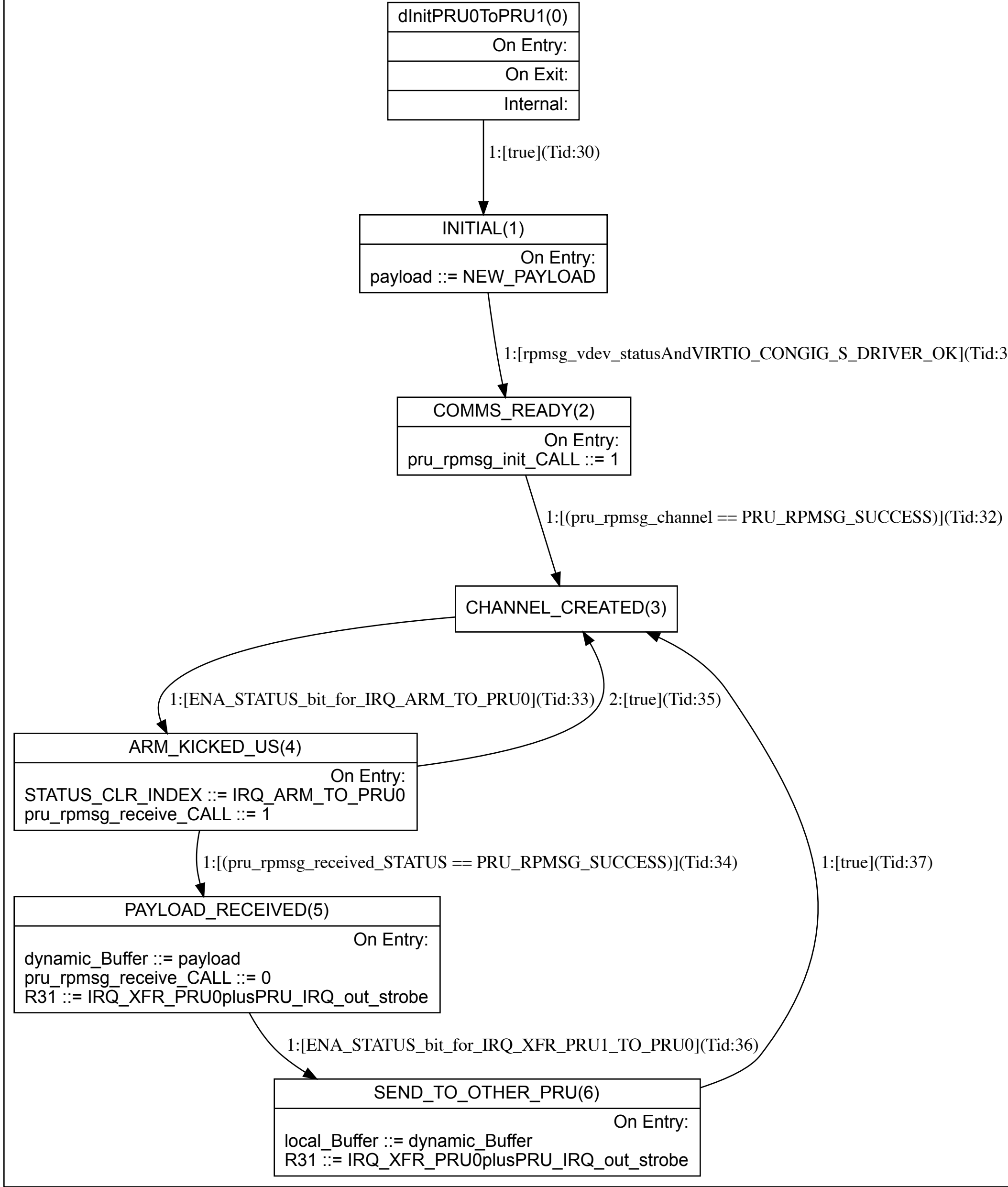
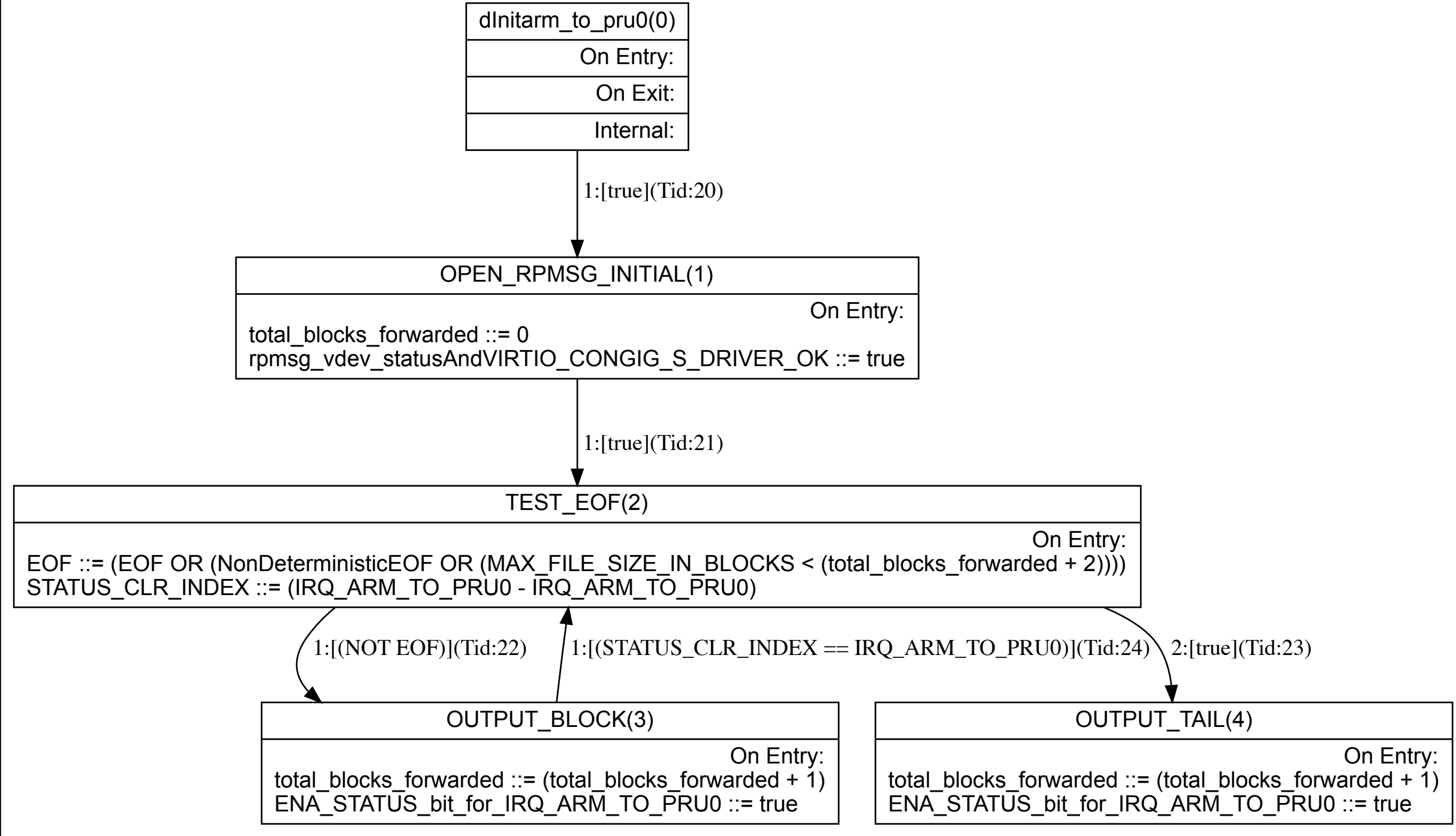


Arrangement of LLFSMs ** PRUSideSender ** , The lfsms = (LINUX_KERNEL,pru1_to_arm,arm_to_pru0,PRU0ToPRU1)
Boolean Sensor = [(NonDeterministicEOF:boolean)]
Integer Whiteboard = [(pru_rpmmsg_init_CALL:0..1),(STATUS_CLR_INDEX:0..1),(pru_rpmmsg_receive_CALL:0..1),(pru_rpmmsg_channel:0..1),(payload:0..MAX_PAYLOAD),(pru_rpmmsg_received_STATUS:0..1),(R31:0..2),(local_Buffer:0..MAX_PAYLOAD)]
Boolean Whiteboard = [(rpmmsg_vdev_statusAndVIRTIO_CONGIG_S_DRIVER_OK:boolean),(EOF:boolean),(ENA_STATUS_bit_for_IRQ_ARM_TO_PRU0:boolean),(ENA_STATUS_bit_for_IRQ_XFR_PRU1_TO_PRU0:boolean)]
Constants = [NEW_PAYLOAD=0,PRU_RPMMSG_SUCCESS=1,IRQ_ARM_TO_PRU0=1,MAX_FILE_SIZE_IN_BLOCKS=10,MAX_PAYLOAD=5,IRQ_XFR_PRU0plusPRU_IRQ_out_strobe=2]

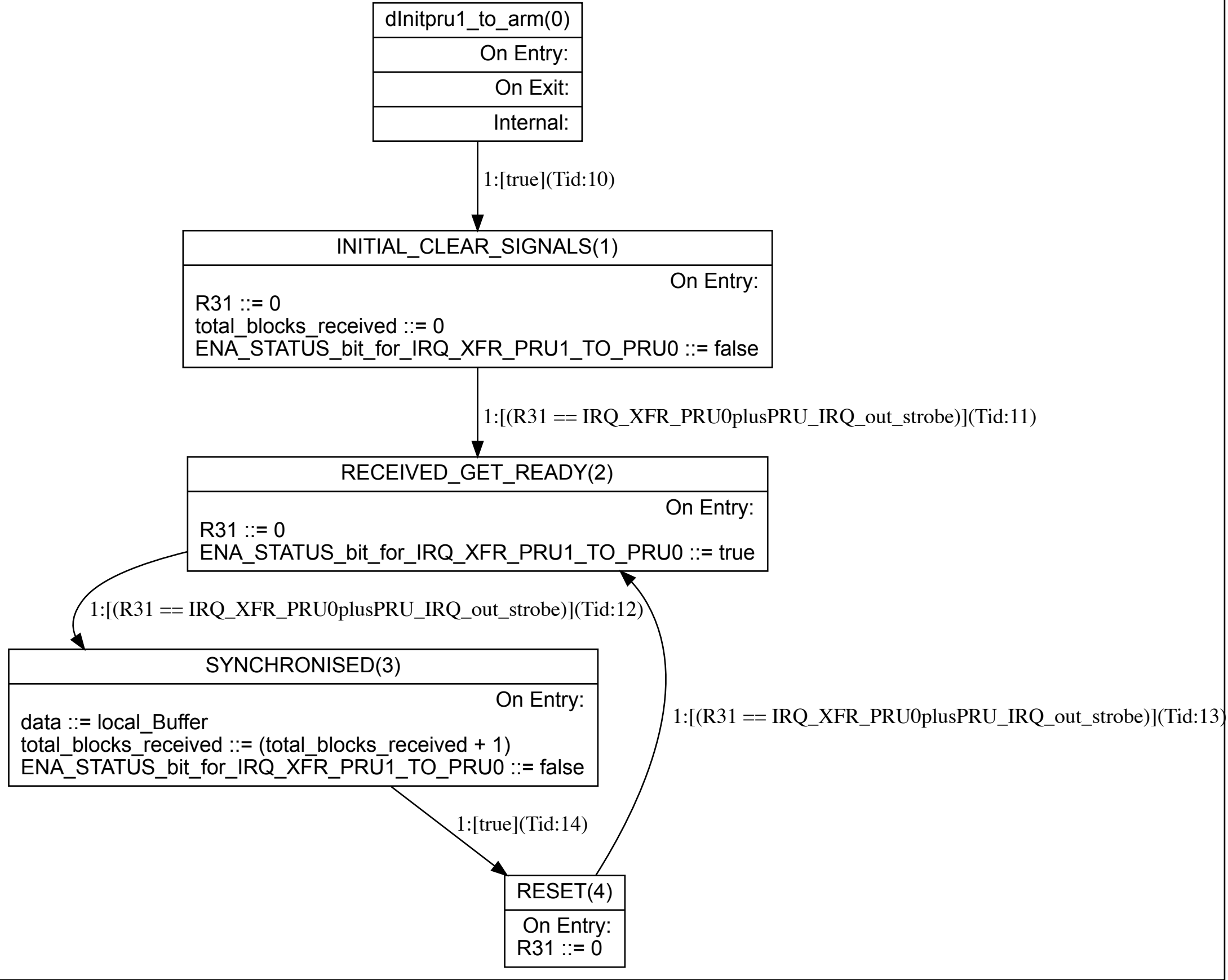
PRU0ToPRU1(ID:3) turn(3)
Whiteboard Variables in LHS = [R31,payload,pru_rpmmsg_receive_CALL,pru_rpmmsg_init_CALL,local_Buffer,STATUS_CLR_INDEX]
WB in LHS Owner = [payload,pru_rpmmsg_receive_CALL,local_Buffer]
WB in LHS Shared = [R31,pru_rpmmsg_init_CALL,STATUS_CLR_INDEX]
Local Integer = [(dynamic_Buffer:0..MAX_PAYLOAD)]



arm_to_pru0(ID:2) turn(2)
Whiteboard Variables in LHS = [STATUS_CLR_INDEX]
WB in LHS Shared = [STATUS_CLR_INDEX]
Boolean Whiteboard Variables in LHS = [rpmmsg_vdev_statusAndVIRTIO_CONGIG_S_DRIVER_OK,ENA_STATUS_bit_for_IRQ_ARM_TO_PRU0,EOF]
Boolean WB in LHS Owner = [rpmmsg_vdev_statusAndVIRTIO_CONGIG_S_DRIVER_OK,EOF]
Boolean WB in LHS Shared = [ENA_STATUS_bit_for_IRQ_ARM_TO_PRU0]
Local Integer = [(total_blocks_forwarded:0..MAX_FILE_SIZE_IN_BLOCKS)]



pru1_to_arm(ID:1) turn(1)
Whiteboard Variables in LHS = [R31]
WB in LHS Shared = [R31]
Boolean Whiteboard Variables in LHS = [ENA_STATUS_bit_for_IRQ_XFR_PRU1_TO_PRU0]
Boolean WB in LHS Owner = [ENA_STATUS_bit_for_IRQ_XFR_PRU1_TO_PRU0]
Local Integer = [(data:0..MAX_PAYLOAD),(total_blocks_received:0..MAX_FILE_SIZE_IN_BLOCKS)]



LINUX_KERNEL(ID:0) turn(0)
Whiteboard Variables in LHS = [pru_rpmmsg_received_STATUS,pru_rpmmsg_channel,pru_rpmmsg_init_CALL]
WB in LHS Owner = [pru_rpmmsg_received_STATUS,pru_rpmmsg_channel]
WB in LHS Shared = [pru_rpmmsg_init_CALL]
Boolean Whiteboard Variables in LHS = [ENA_STATUS_bit_for_IRQ_ARM_TO_PRU0]
Boolean WB in LHS Shared = [ENA_STATUS_bit_for_IRQ_ARM_TO_PRU0]

