The following extract of the *External Mode* ***host*** *debug message log* (level 2) is analyzed to determine the cause of a deadlock situation observed when after a parameter download from the host to the target. Then upload of log data commences on [p. 29](#logDataStart). For details about how the deadlock situation occurs [see page 34 ff](#explanation).

[1] ExtCommMain: EXT\_CONNECT

[1] ExtCommMain: HOST\_STATUS\_CONNECTING

[1] ExtConnect: IN

--[3] ExtResetSerialConnection: Freeing memory of FIFOFree queue...

--[3] ExtResetSerialConnection: ... 0 buffers representing a total of 0 bytes

--[3] ExtResetSerialConnection: Freeing memory of FIFOPkt queue...

--[3] ExtResetSerialConnection: ... 0 buffers representing a total of 0 bytes

--[3] ExtResetSerialConnection: Freeing memory of InBuffer (300 bytes)

--[3] ExtResetSerialConnection: Freeing memory of OutBuffer (300 bytes)

--[3] ExtOpenSerialConnection: Allocating memory for OutBuffer (300 bytes)

--[3] ExtOpenSerialConnection: Allocating memory for InBuffer (300 bytes)

--[3] AddToFIFOFree: Allocating memory for (another) 300 free FIFO buffers

[1] ExtConnect: Sending 'ext-mode'

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

[1] ExtConnect: Waiting for EXT\_CONNECT\_RESPONSE (1/2)

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x10 0x0 0x0 0x0 0x8 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x10 (EXT\_CONNECT\_RESPONSE), data size: 0x8 (8 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ProcessConnectResponse1: IN

--[3] ProcessConnectResponse1: Host endianness differs from target endianness --> payload data byte order will be reversed on the host (RX & TX).

--[3] ProcessConnectResponse1: Test data (size of previously received telegram) before byte order adjustment: [ 0x8 0x0 0x0 0x0 ]

--[3] ProcessConnectResponse1: Test data after byte order adjustment: [ 0x0 0x0 0x0 0x8 ]

--[3] ProcessConnectResponse1: pktHdr->type 16

--[3] ProcessConnectResponse1: pktHdr->size 8

--[3] ProcessConnectResponse1: Bits per target byte 8

--[3] ProcessConnectResponse1: Setting number of host bytes per target byte to 1

--[3] ProcessConnectResponse1: OUT

--[3] ExtConnect: Detected host endianness is 'little endian' --> 0x0001 stored as 0x01:0x00 (LSB before MSB)

--[3] ExtConnect: Byte order reversal mechanism is currently activated on the host.

[1] ExtConnect: Waiting for EXT\_CONNECT\_RESPONSE (2/2)

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x10 0x0 0x0 0x0 0x5c 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x10 (EXT\_CONNECT\_RESPONSE), data size: 0x5c (92 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

-[2] ExtConnect: Host bytes per target bytes: 1

-[2] ExtConnect: Allocating memory for a message with 92 bytes

-[2] CheckExtSerialPacket: Suspending processing until there are 101 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x5c 0x0 0x0 0x0 0xcb 0xef 0xb4 0x74 0x88 0xab 0x22 0x7c 0x4e 0x7 0x45 0xf9 0xe4 0xf8 0xf5 0x12 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0xf 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x1 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x74

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 92

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

-[2] ExtConnect: ExtGetTargetPkt returns 92 bytes

-[2] ExtConnect: Contents of 2nd EXT\_CONNECT\_RESPONSE -----------------------

-[2] ExtConnect: Checksum\_1: 0xcbefb474

-[2] ExtConnect: Checksum\_2: 0x88ab227c

-[2] ExtConnect: Checksum\_3: 0x4e0745f9

-[2] ExtConnect: Checksum\_4: 0xe4f8f512

-[2] ExtConnect: Target integer only code: 0

-[2] ExtConnect: Target multiword chunk size: 4

-[2] ExtConnect: Target status: 1

-[2] ProcessTargetDataSizes: Number of host data types: 15

-[2] ProcessTargetDataSizes: Number of target data types: 15

-[2] ProcessTargetDataSizes: Size of data type 0: 4

-[2] ProcessTargetDataSizes: Size of data type 1: 4

-[2] ProcessTargetDataSizes: Size of data type 2: 1

-[2] ProcessTargetDataSizes: Size of data type 3: 1

-[2] ProcessTargetDataSizes: Size of data type 4: 2

-[2] ProcessTargetDataSizes: Size of data type 5: 2

-[2] ProcessTargetDataSizes: Size of data type 6: 4

-[2] ProcessTargetDataSizes: Size of data type 7: 4

-[2] ProcessTargetDataSizes: Size of data type 8: 1

-[2] ProcessTargetDataSizes: Size of data type 9: 4

-[2] ProcessTargetDataSizes: Size of data type 10: 2

-[2] ProcessTargetDataSizes: Size of data type 11: 2

-[2] ProcessTargetDataSizes: Size of data type 12: 4

-[2] ProcessTargetDataSizes: Size of data type 13: 8

-[2] ProcessTargetDataSizes: Size of data type 14: 1

-[2] ExtConnect: End of contents of 2nd EXT\_CONNECT\_RESPONSE -----------------

[1] ExtConnect: OUT, error status: 0

Downloading parameters for:

block : atest/Gain

Parameter name : Gain

Data Type Trans: 0

Start index : 0

nEls: : 1

Data Type : [double, 0]

Values:

0.10000000000000001

Downloading parameters for:

block : atest/Counter Free-Running/Output

Parameter name : X0

Function of :

param : X0

Data Type Trans: 1

Start index : 0

nEls: : 1

Data Type : [uint8, 3]

Values:

0U

Downloading parameters for:

block : atest/Counter Free-Running/Increment Real World/FixPt Constant

Parameter name : Value

Function of :

param : Value

Data Type Trans: 1

Start index : 1

nEls: : 1

Data Type : [uint8, 3]

Values:

1U

Downloading parameters for:

block : atest/Counter Free-Running/Wrap To Zero/FixPt Switch

Parameter name : Threshold

Function of :

param : Threshold

Data Type Trans: 1

Start index : 2

nEls: : 1

Data Type : [uint8, 3]

Values:

15U

[1] ExtCommMain: EXT\_SETPARAM

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 4

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_SETPARAM

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x4b (75)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x4b000000

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Sending packet data ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/75] 0x0

-[2] ExtSendGenericPkt: Data sent [2/75] 0x0

-[2] ExtSendGenericPkt: Data sent [3/75] 0x0

-[2] ExtSendGenericPkt: Data sent [4/75] 0x4

-[2] ExtSendGenericPkt: Data sent [5/75] 0x0

-[2] ExtSendGenericPkt: Data sent [6/75] 0x0

-[2] ExtSendGenericPkt: Data sent [7/75] 0x0

-[2] ExtSendGenericPkt: Data sent [8/75] 0x0

-[2] ExtSendGenericPkt: Data sent [9/75] 0x0

-[2] ExtSendGenericPkt: Data sent [10/75] 0x0

-[2] ExtSendGenericPkt: Data sent [11/75] 0x0

-[2] ExtSendGenericPkt: Data sent [12/75] 0x0

-[2] ExtSendGenericPkt: Data sent [13/75] 0x0

-[2] ExtSendGenericPkt: Data sent [14/75] 0x0

-[2] ExtSendGenericPkt: Data sent [15/75] 0x0

-[2] ExtSendGenericPkt: Data sent [16/75] 0x1

-[2] ExtSendGenericPkt: Data sent [17/75] 0x0

-[2] ExtSendGenericPkt: Data sent [18/75] 0x0

-[2] ExtSendGenericPkt: Data sent [19/75] 0x0

-[2] ExtSendGenericPkt: Data sent [20/75] 0x0

-[2] ExtSendGenericPkt: Data sent [21/75] 0x3d

-[2] ExtSendGenericPkt: Data sent [22/75] 0xcc

-[2] ExtSendGenericPkt: Data sent [23/75] 0xcc

-[2] ExtSendGenericPkt: Data sent [24/75] 0xcd

-[2] ExtSendGenericPkt: Data sent [25/75] 0x0

-[2] ExtSendGenericPkt: Data sent [26/75] 0x0

-[2] ExtSendGenericPkt: Data sent [27/75] 0x0

-[2] ExtSendGenericPkt: Data sent [28/75] 0x1

-[2] ExtSendGenericPkt: Data sent [29/75] 0x0

-[2] ExtSendGenericPkt: Data sent [30/75] 0x0

-[2] ExtSendGenericPkt: Data sent [31/75] 0x0

-[2] ExtSendGenericPkt: Data sent [32/75] 0x0

-[2] ExtSendGenericPkt: Data sent [33/75] 0x0

-[2] ExtSendGenericPkt: Data sent [34/75] 0x0

-[2] ExtSendGenericPkt: Data sent [35/75] 0x0

-[2] ExtSendGenericPkt: Data sent [36/75] 0x1

-[2] ExtSendGenericPkt: Data sent [37/75] 0x0

-[2] ExtSendGenericPkt: Data sent [38/75] 0x0

-[2] ExtSendGenericPkt: Data sent [39/75] 0x0

-[2] ExtSendGenericPkt: Data sent [40/75] 0x3

-[2] ExtSendGenericPkt: Data sent [41/75] 0x0

-[2] ExtSendGenericPkt: Data sent [42/75] 0x0

-[2] ExtSendGenericPkt: Data sent [43/75] 0x0

-[2] ExtSendGenericPkt: Data sent [44/75] 0x0

-[2] ExtSendGenericPkt: Data sent [45/75] 0x1

-[2] ExtSendGenericPkt: Data sent [46/75] 0x0

-[2] ExtSendGenericPkt: Data sent [47/75] 0x0

-[2] ExtSendGenericPkt: Data sent [48/75] 0x0

-[2] ExtSendGenericPkt: Data sent [49/75] 0x1

-[2] ExtSendGenericPkt: Data sent [50/75] 0x0

-[2] ExtSendGenericPkt: Data sent [51/75] 0x0

-[2] ExtSendGenericPkt: Data sent [52/75] 0x0

-[2] ExtSendGenericPkt: Data sent [53/75] 0x1

-[2] ExtSendGenericPkt: Data sent [54/75] 0x0

-[2] ExtSendGenericPkt: Data sent [55/75] 0x0

-[2] ExtSendGenericPkt: Data sent [56/75] 0x0

-[2] ExtSendGenericPkt: Data sent [57/75] 0x3

-[2] ExtSendGenericPkt: Data sent [58/75] 0x1

-[2] ExtSendGenericPkt: Data sent [59/75] 0x0

-[2] ExtSendGenericPkt: Data sent [60/75] 0x0

-[2] ExtSendGenericPkt: Data sent [61/75] 0x0

-[2] ExtSendGenericPkt: Data sent [62/75] 0x1

-[2] ExtSendGenericPkt: Data sent [63/75] 0x0

-[2] ExtSendGenericPkt: Data sent [64/75] 0x0

-[2] ExtSendGenericPkt: Data sent [65/75] 0x0

-[2] ExtSendGenericPkt: Data sent [66/75] 0x2

-[2] ExtSendGenericPkt: Data sent [67/75] 0x0

-[2] ExtSendGenericPkt: Data sent [68/75] 0x0

-[2] ExtSendGenericPkt: Data sent [69/75] 0x0

-[2] ExtSendGenericPkt: Data sent [70/75] 0x1

-[2] ExtSendGenericPkt: Data sent [71/75] 0x0

-[2] ExtSendGenericPkt: Data sent [72/75] 0x0

-[2] ExtSendGenericPkt: Data sent [73/75] 0x0

-[2] ExtSendGenericPkt: Data sent [74/75] 0x3

-[2] ExtSendGenericPkt: Data sent [75/75] 0xf

-[2] ExtSendGenericPkt: OUT, error status 0

[1] ExtCommMain: EXT\_SELECT\_SIGNALS

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 6

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_SELECT\_SIGNALS

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x30 (48)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x30000000

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Sending packet data ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x12 0x0 0x0 0x0 0x4 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x12 (EXT\_SETPARAM\_RESPONSE), data size: 0x4 (4 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/48] 0x0

-[2] ExtSendGenericPkt: Data sent [2/48] 0x0

-[2] ExtSendGenericPkt: Data sent [3/48] 0x0

-[2] ExtSendGenericPkt: Data sent [4/48] 0x0

-[2] ExtSendGenericPkt: Data sent [5/48] 0x0

-[2] ExtSendGenericPkt: Data sent [6/48] 0x0

-[2] ExtSendGenericPkt: Data sent [7/48] 0x0

-[2] ExtSendGenericPkt: Data sent [8/48] 0x1

-[2] ExtSendGenericPkt: Data sent [9/48] 0x0

-[2] ExtSendGenericPkt: Data sent [10/48] 0x0

-[2] ExtSendGenericPkt: Data sent [11/48] 0x0

-[2] ExtSendGenericPkt: Data sent [12/48] 0x0

-[2] ExtSendGenericPkt: Data sent [13/48] 0x0

-[2] ExtSendGenericPkt: Data sent [14/48] 0x0

-[2] ExtSendGenericPkt: Data sent [15/48] 0x0

-[2] ExtSendGenericPkt: Data sent [16/48] 0x1

-[2] ExtSendGenericPkt: Data sent [17/48] 0x0

-[2] ExtSendGenericPkt: Data sent [18/48] 0x0

-[2] ExtSendGenericPkt: Data sent [19/48] 0x0

-[2] ExtSendGenericPkt: Data sent [20/48] 0x1

-[2] ExtSendGenericPkt: Data sent [21/48] 0x0

-[2] ExtSendGenericPkt: Data sent [22/48] 0x0

-[2] ExtSendGenericPkt: Data sent [23/48] 0x0

-[2] ExtSendGenericPkt: Data sent [24/48] 0x1

-[2] ExtSendGenericPkt: Data sent [25/48] 0x0

-[2] ExtSendGenericPkt: Data sent [26/48] 0x0

-[2] ExtSendGenericPkt: Data sent [27/48] 0x0

-[2] ExtSendGenericPkt: Data sent [28/48] 0x0

-[2] ExtSendGenericPkt: Data sent [29/48] 0x0

-[2] ExtSendGenericPkt: Data sent [30/48] 0x0

-[2] ExtSendGenericPkt: Data sent [31/48] 0x0

-[2] ExtSendGenericPkt: Data sent [32/48] 0x0

-[2] ExtSendGenericPkt: Data sent [33/48] 0x0

-[2] ExtSendGenericPkt: Data sent [34/48] 0x0

-[2] ExtSendGenericPkt: Data sent [35/48] 0x0

-[2] ExtSendGenericPkt: Data sent [36/48] 0x1

-[2] ExtSendGenericPkt: Data sent [37/48] 0x0

-[2] ExtSendGenericPkt: Data sent [38/48] 0x0

-[2] ExtSendGenericPkt: Data sent [39/48] 0x0

-[2] ExtSendGenericPkt: Data sent [40/48] 0x0

-[2] ExtSendGenericPkt: Data sent [41/48] 0x0

-[2] ExtSendGenericPkt: Data sent [42/48] 0x0

-[2] ExtSendGenericPkt: Data sent [43/48] 0x0

-[2] ExtSendGenericPkt: Data sent [44/48] 0x0

-[2] ExtSendGenericPkt: Data sent [45/48] 0x0

-[2] ExtSendGenericPkt: Data sent [46/48] 0x1

-[2] ExtSendGenericPkt: Data sent [47/48] 0x38

-[2] ExtSendGenericPkt: Data sent [48/48] 0xa0

-[2] ExtSendGenericPkt: OUT, error status 0

[1] ExtCommMain: EXT\_CANCEL\_LOGGING

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 9

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_CANCEL\_LOGGING

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x4 (4)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x4000000

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x4 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x0 (EXT\_CONNECT), data size: 0x4 (4 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 2

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Sending packet data ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x1b 0x0 0x0 0x0 0x8 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x1b (EXT\_SELECT\_SIGNALS\_RESPONSE), data size: 0x8 (8 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 3

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/4] 0x0

-[2] ExtSendGenericPkt: Data sent [2/4] 0x0

-[2] ExtSendGenericPkt: Data sent [3/4] 0x0

-[2] ExtSendGenericPkt: Data sent [4/4] 0x1

-[2] ExtSendGenericPkt: OUT, error status 0

[1] ExtCommMain: HOST\_STATUS\_NOT\_ARMED

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 2

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 18 (EXT\_SETPARAM\_RESPONSE), size 4

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 4

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 1

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 4 (of 4) bytes.

Got EXT\_SETPARAM\_RESPONSE from target with status OK.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 27 (EXT\_SELECT\_SIGNALS\_RESPONSE), size 8

--[3] ExtRecvIncomingPkt: Retrieving packet data...

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x0 (EXT\_CONNECT), data size: 0x0 (0 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 8 (of 8) bytes.

Got EXT\_SELECT\_SIGNALS\_RESPONSE from target for upInfoIdx 0 with status OK.

[1] ExtCommMain: EXT\_SELECT\_TRIGGER

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 7

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_SELECT\_TRIGGER

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x20 (32)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x20000000

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Sending packet data ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x1e 0x0 0x0 0x0 0x8 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x1e (EXT\_CANCEL\_LOGGING\_RESPONSE), data size: 0x8 (8 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/32] 0x0

-[2] ExtSendGenericPkt: Data sent [2/32] 0x0

-[2] ExtSendGenericPkt: Data sent [3/32] 0x0

-[2] ExtSendGenericPkt: Data sent [4/32] 0x0

-[2] ExtSendGenericPkt: Data sent [5/32] 0x0

-[2] ExtSendGenericPkt: Data sent [6/32] 0x0

-[2] ExtSendGenericPkt: Data sent [7/32] 0x0

-[2] ExtSendGenericPkt: Data sent [8/32] 0x0

-[2] ExtSendGenericPkt: Data sent [9/32] 0x0

-[2] ExtSendGenericPkt: Data sent [10/32] 0x0

-[2] ExtSendGenericPkt: Data sent [11/32] 0x13

-[2] ExtSendGenericPkt: Data sent [12/32] 0x88

-[2] ExtSendGenericPkt: Data sent [13/32] 0x0

-[2] ExtSendGenericPkt: Data sent [14/32] 0x0

-[2] ExtSendGenericPkt: Data sent [15/32] 0x0

-[2] ExtSendGenericPkt: Data sent [16/32] 0x0

-[2] ExtSendGenericPkt: Data sent [17/32] 0x0

-[2] ExtSendGenericPkt: Data sent [18/32] 0x0

-[2] ExtSendGenericPkt: Data sent [19/32] 0x0

-[2] ExtSendGenericPkt: Data sent [20/32] 0x0

-[2] ExtSendGenericPkt: Data sent [21/32] 0x0

-[2] ExtSendGenericPkt: Data sent [22/32] 0x0

-[2] ExtSendGenericPkt: Data sent [23/32] 0x0

-[2] ExtSendGenericPkt: Data sent [24/32] 0x0

-[2] ExtSendGenericPkt: Data sent [25/32] 0x0

-[2] ExtSendGenericPkt: Data sent [26/32] 0x0

-[2] ExtSendGenericPkt: Data sent [27/32] 0x0

-[2] ExtSendGenericPkt: Data sent [28/32] 0x0

-[2] ExtSendGenericPkt: Data sent [29/32] 0x0

-[2] ExtSendGenericPkt: Data sent [30/32] 0x0

-[2] ExtSendGenericPkt: Data sent [31/32] 0x0

-[2] ExtSendGenericPkt: Data sent [32/32] 0x0

-[2] ExtSendGenericPkt: OUT, error status 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 30 (EXT\_CANCEL\_LOGGING\_RESPONSE), size 8

--[3] ExtRecvIncomingPkt: Retrieving packet data...

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

(...)

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x0 (EXT\_CONNECT), data size: 0x1 (1 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 8 (of 8) bytes.

Got EXT\_CANCEL\_LOGGING\_RESPONSE from target for upInfoIdx 1 with status OK.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x1c 0x0 0x0 0x0 0x8 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x1c (EXT\_SELECT\_TRIGGER\_RESPONSE), data size: 0x8 (8 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 28 (EXT\_SELECT\_TRIGGER\_RESPONSE), size 8

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

(...)

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

(...)

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x0 (EXT\_CONNECT), data size: 0x0 (0 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 8 (of 8) bytes.

Got EXT\_SELECT\_TRIGGER\_RESPONSE from target for upInfoIdx 0 with status OK.

[1] ExtCommMain: EXT\_ARM\_TRIGGER

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 8

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_ARM\_TRIGGER

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x4 (4)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x4000000

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Sending packet data ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: waitForAck = TRUE -> need to wait for ACK\_PACKET

<2--[3] ExtSetPkt: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/4] 0x0

-[2] ExtSendGenericPkt: Data sent [2/4] 0x0

-[2] ExtSendGenericPkt: Data sent [3/4] 0x0

-[2] ExtSendGenericPkt: Data sent [4/4] 0x0

-[2] ExtSendGenericPkt: OUT, error status 0

[1] ExtCommMain: HOST\_STATUS\_ARMED

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x1d 0x0 0x0 0x0 0x8 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x1d (EXT\_ARM\_TRIGGER\_RESPONSE), data size: 0x8 (8 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 29 (EXT\_ARM\_TRIGGER\_RESPONSE), size 8

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

(...)

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

(...)

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtRecvIncomingPkt: Retrieving packet data...

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x0 (EXT\_CONNECT), data size: 0x0 (0 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 8 (of 8) bytes.

Got EXT\_ARM\_TRIGGER\_RESPONSE from target for upInfoIdx 0 with status OK.

[1] ExtCommMain: EXT\_MODEL\_START

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): 10

-[2] ExtSendGenericPkt: Packet type (action) is: EXT\_MODEL\_START

-[2] ExtSendGenericPkt: Packet size (before copy32): 0x0 (0)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x0

-[2] ExtSendGenericPkt: Sending packet header ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

[1] ExtSetPkt: waitForAck = FALSE -> clear to send

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

[1] ExtSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: OUT, error status 0

[1] ExtCommMain: HOST\_STATUS\_RUNNING

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FALSE;

--[3] ExtGetPktBlocking: OUT, error status: 0

-[2] CheckExtSerialPacket: Suspending processing until there are 17 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x16 0x0 0x0 0x0 0x0 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x16 (EXT\_MODEL\_START\_RESPONSE), data size: 0x0 (0 bytes)

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtGetPktBlocking: OUT, error status: 0

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 8

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 22 (EXT\_MODEL\_START\_RESPONSE), size 0

--[3] ExtRecvIncomingPkt: Packet contains no further data.

Got EXT\_MODEL\_START\_RESPONSE packet from target.

This concludes the connecting/startup phase. The upload of log data starts here. **Note that the debug level “3” messages are only shown once (light blue) – in later repetitions these messages have been omitted for brevity**.

-[2] CheckExtSerialPacket: Suspending processing until there are 265 bytes in the comms line buffer / RX ring buffer.

<1--[3] ExtPktPending: Making blocking call to fetch detected pending data from the comms line...

--[3] ExtGetPktBlocking: IN

--[3] GetExtSerialPacket: IN

--[3] GetExtSerialPacket: State -> ESP\_NoPacket

--[3] GetExtSerialPacket: OUT, error status: 0

>

[ 0x7e 0x7e 0x1 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3c 0xa3 0xd7 0xa 0x0 0x0 0x0 0x0 0x3e 0x19 0x99 0x9a 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3d 0x23 0xd7 0xa 0x0 0x0 0x0 0x0 0x3e 0x99 0x99 0x9a 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3d 0x75 0xc2 0x8e 0x0 0x0 0x0 0x0 0x3e 0xe6 0x66 0x66 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3d 0xa3 0xd7 0xa 0x0 0x0 0x0 0x0 0x3f 0x19 0x99 0x9a 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3d 0xcc 0xcc 0xcc 0x0 0x0 0x0 0x0 0x3f 0x40 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3d 0xf5 0xc2 0x8e 0x0 0x0 0x0 0x0 0x3f 0x66 0x66 0x66 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0xf 0x5c 0x28 0x0 0x0 0x0 0x0 0x3f 0x86 0x66 0x66 0x3 0x3 ]

--[3] ExtGetPktBlocking: Received valid packet. Type: 1

--[3] ExtGetPktBlocking: Packet type is EXTMODE\_PACKET

--[3] ExtGetPktBlocking: Payload indicates data action (if it is an action at all...): 0x1a (EXT\_UPLOAD\_LOGGING\_DATA), data size: 0x18 (24 bytes)

**-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer**

**--[3] InsertFIFOPkt: Number of stored messages in FIFOPkt: 1**

**-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...**

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: Sending (regular) ACK\_PACKET... (always possible, regardless the state of the 'waitForAck' flag)

--[3] ExtSetPkt: Sending now...

--[3] SetExtSerialPacket: IN

--[3] SetExtSerialPacket: OUT, error status: 0

--[3] ExtSetPkt: OUT, error status: 0

-[2] ExtGetPktBlocking: ... **ACK\_PACKET sent**.

--[3] ExtGetPktBlocking: OUT, error status: 0

**--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...**

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

**--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 256**

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 248

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 224

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 216

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 192

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 184

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 160

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 152

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 128

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 120

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 96

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 88

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 64

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 56

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 32

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size 24

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: 24

--[3] RemoveFIFOPkt: Fetching last previously stored packet...

--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

-[2] CheckExtSerialPacket: Suspending processing until there are 297 bytes in the comms line buffer / RX ring buffer.

<1>

[ 0x7e 0x7e 0x1 0x20 0x1 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x23 0xd7 0xa 0x0 0x0 0x0 0x0 0x3f 0x4c 0xcc 0xcc 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x38 0x51 0xea 0x0 0x0 0x0 0x0 0x3f 0x66 0x66 0x66 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x4c 0xcc 0xcc 0x0 0x0 0x0 0x0 0x3f 0x80 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x61 0x47 0xac 0x0 0x0 0x0 0x0 0x3f 0x8c 0xcc 0xcc 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x75 0xc2 0x8e 0x0 0x0 0x0 0x0 0x3f 0x99 0x99 0x99 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x85 0x1e 0xb8 0x0 0x0 0x0 0x0 0x3f 0xa6 0x66 0x66 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x8f 0x5c 0x28 0x0 0x0 0x0 0x0 0x3f 0xb3 0x33 0x33 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0x99 0x99 0x99 0x0 0x0 0x0 0x0 0x3f 0xc0 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3e 0xa3 0xd7 0xa 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

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(...)

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

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-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

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-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

-[2] ExtGetPktBlocking: Sending ACK\_PACKET to acknowledge the receipt of the received EXTMODE\_PACKET...

-[2] ExtGetPktBlocking: ... ACK\_PACKET sent.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

(...)

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

-[2] CheckExtSerialPacket: Suspending processing until there are 297 bytes in the comms line buffer / RX ring buffer.

**At this moment, user action on the host initiates the download of a new parameter set**. Note that this is a completely asynchronous event.

The host is currently awaiting the completion of an ongoing transmission of a log data package with a total of 297 bytes: 2 (header) + 1 (type) + 4 (size) + 288 (= 0x00000120 data bytes) + 2 (tail).

Downloading parameters for:

block : atest/Gain

Parameter name : Gain

Data Type Trans: 0

Start index : 0

nEls: : 1

Data Type : [double, 0]

Values:

0.14999999999999999

[1] ExtCommMain: EXT\_SETPARAM

-[2] ExtSendGenericPkt: IN

-[2] ExtSendGenericPkt: Packet type (before copy32): **4**

-[2] ExtSendGenericPkt: Packet type (action) is: **EXT\_SETPARAM**

-[2] ExtSendGenericPkt: Packet size (before copy32): **0x18** (24)

-[2] ExtSendGenericPkt: Packet size (after copy32): 0x18000000

-[2] ExtSendGenericPkt: **Sending packet header** ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

[1] ExtSetPkt: **waitForAck = FALSE -> clear to send**

--[3] ExtSetPkt: **Sending now...**

[1] ExtSetPktWithACK: ExtMode packet sent, setting **waitForAck to TRUE**

--[3] ExtSetPktWithACK: OUT, error status: 0

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: **Sending packet data** ====================

-[2] ExtSetTargetPkt: IN

--[3] ExtSetPktWithACK: IN

--[3] ExtSetPkt: IN

--[3] ExtSetPkt: **waitForAck = TRUE -> need to wait for ACK\_PACKET**

While waiting for the ACK\_PACKET from the target (in response to the EXT\_SETPARAM package), the host intercepts the next log data packet (total packet length: 297 bytes). Since the intercepted packet is no ACK\_PACKET, it is saved in the FIFO queue (*SavePkt*) and an acknowledgement (**ACK\_PACKET**) is sent to the target. Note that host variable *waitForAck* is still set to true, i .e. the host transmission interface remains blocked.

<2>

[ 0x7e 0x7e 0x1 0x20 0x1 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x87 0xae 0x14 0x0 0x0 0x0 0x0 0x3f 0x0 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x8a 0x3d 0x70 0x0 0x0 0x0 0x0 0x3f 0x19 0x99 0x99 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x8c 0xcc 0xcc 0x0 0x0 0x0 0x0 0x3f 0x33 0x33 0x33 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x8f 0x5c 0x28 0x0 0x0 0x0 0x0 0x3f 0x4c 0xcc 0xcc 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x91 0xeb 0x84 0x0 0x0 0x0 0x0 0x3f 0x66 0x66 0x66 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x94 0x7a 0xe1 0x0 0x0 0x0 0x0 0x3f 0x80 0x0 0x0 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x97 0xa 0x3d 0x0 0x0 0x0 0x0 0x3f 0x8c 0xcc 0xcc 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x99 0x99 0x99 0x0 0x0 0x0 0x0 0x3f 0x99 0x99 0x99 0x0 0x0 0x0 0x1a 0x0 0x0 0x0 0x18 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3f 0x9c 0x28 0xf5 0x0 0x0 0x0 0x0 0x3f 0xa6 0x66 0x66 0x3 0x3 ]

-[2] ExtGetPktBlocking: Storing received EXTMODE\_PACKET in FIFO buffer

-[2] ExtGetPktBlocking: **Sending ACK\_PACKET** to acknowledge the receipt of the received EXTMODE\_PACKET...

-[2] ExtGetPktBlocking: ... **ACK\_PACKET sent**.

Eventually, the expected ACK\_PACKET arrives and the host is clear to send the actual parameter set data (gain: 0.15 = **0x3E19999A**):

**<2>**

**[ 0x7e 0x7e 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]**

--[3] ExtGetPktBlocking: Received valid packet. Type: 2

--[3] ExtGetPktBlocking: Packet type is ACK\_PACKET

[1] ExtGetPktBlocking: Received **ACK\_PACKET -> waitForAck = FALSE**;

[1] ExtSetPkt: **waitForAck = FALSE -> clear to send**

--[3] ExtSetPkt: Sending now...

[1] ExtSetPktWithACK: ExtMode **packet sent**, setting **waitForAck to TRUE**

-[2] ExtSetTargetPkt: OUT, error status: 0

-[2] ExtSendGenericPkt: Data sent [1/24] 0x0

-[2] ExtSendGenericPkt: Data sent [2/24] 0x0

-[2] ExtSendGenericPkt: Data sent [3/24] 0x0

-[2] ExtSendGenericPkt: Data sent [4/24] 0x1

-[2] ExtSendGenericPkt: Data sent [5/24] 0x0

-[2] ExtSendGenericPkt: Data sent [6/24] 0x0

-[2] ExtSendGenericPkt: Data sent [7/24] 0x0

-[2] ExtSendGenericPkt: Data sent [8/24] 0x0

-[2] ExtSendGenericPkt: Data sent [9/24] 0x0

-[2] ExtSendGenericPkt: Data sent [10/24] 0x0

-[2] ExtSendGenericPkt: Data sent [11/24] 0x0

-[2] ExtSendGenericPkt: Data sent [12/24] 0x0

-[2] ExtSendGenericPkt: Data sent [13/24] 0x0

-[2] ExtSendGenericPkt: Data sent [14/24] 0x0

-[2] ExtSendGenericPkt: Data sent [15/24] 0x0

-[2] ExtSendGenericPkt: Data sent [16/24] 0x1

-[2] ExtSendGenericPkt: Data sent [17/24] 0x0

-[2] ExtSendGenericPkt: Data sent [18/24] 0x0

-[2] ExtSendGenericPkt: Data sent [19/24] 0x0

-[2] ExtSendGenericPkt: Data sent [20/24] 0x0

-[2] ExtSendGenericPkt: Data sent [21/24] **0x3e**

-[2] ExtSendGenericPkt: Data sent [22/24] **0x19**

-[2] ExtSendGenericPkt: Data sent [23/24] **0x99**

-[2] ExtSendGenericPkt: Data sent [24/24] **0x9a**

-[2] ExtSendGenericPkt: OUT, error status 0

The parameter set data needs acknowledged. Therefore, host variable *waitForAck* is set to *true* again, thereby preventing the host from transmitting any further data unitl the next ACK\_PACKET is received.

As the *FIFOPkt* queue still holds unprocessed packets, the host continues to read from this queue (callback function *ExtRecvIncomingPkt*, called directly by Simulink). Note that the first packet to be processed contains multiple log data records. Subsequent calls to function *ExtGetPkt* return these records one at a time (debug message log shortened). Once all records have been processed, the packet is removed from the *FIFOPkt* queue (call to ***RemovePkt***, see below).

**(...)**

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: **64**

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size **24**

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: **56**

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: **32**

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Packet header received, type 26 (EXT\_UPLOAD\_LOGGING\_DATA), size **24**

--[3] ExtRecvIncomingPkt: Retrieving packet data...

--[3] ExtPktPending: Pending non-ACK packet detected (in FIFO)...

--[3] ExtGetTargetPkt: Transparent call to ExtGetPkt

--[3] ExtGetPkt: IN

--[3] ExtGetPkt: Number of unprocessed bytes in packet received from FIFO: **24**

**--[3] RemoveFIFOPkt: Fetching last previously stored packet...**

**--[3] RemoveFIFOPkt: Number of stored messages left in FIFOPkt: 0**

--[3] ExtGetPkt: OUT, error status: 0

--[3] ExtRecvIncomingPkt: Got 24 (of 24) bytes.

Once all packets from the *FIFOPkt* queue have been processed, the host appears to be stuck, with host variable ***waitForAck*** still set to ***true***, i.e. the host is still waiting for an ACK\_PACKET from the target.

The corresponding target debug message log indicates that, although the parameter set package has been received and acknowledged, this ACK\_PACKET appears to never reach the host or at least not be noticed by the host:

***extract from the target debug message log:***

<2 0x<ISR>7E 0x7E 0x1 0x18 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3D<ISR> 0xCC 0xCC 0xCD 0x3 0x3><LF>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 **0x18** **0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0<ISR>x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A** 0x3 0x3 ]<LF>

-[2] serial\_set\_string: Sending 0x7E<LF>

-[2] serial\_<ISR>set\_string: Sending 0x7E<LF>

-[2] serial\_set\_string: Sending 0x2<LF>

-[2] serial\_set\_string: Sending 0x0<LF>

-[2] seria<ISR>l\_set\_string: Sending 0x0<LF>

-[2] serial\_set\_string: Sending 0x0<LF>

-[2] serial\_set\_string: Sending 0x0<LF>

-[2] seri<ISR>al\_set\_string: Sending 0x3<LF>

-[2] serial\_set\_string: Sending 0x3<LF>

<ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR>(...)

A log of the actual communication lines (RX/TX) reveals that the **target never actually transmits the ACK\_PACKET to the host**, despite it having been placed in the outgoing TX ring buffer:

<20100630 21:09.58:897 RX>

#7E#7E#01#20#01#00#00

<20100630 21:09.58:975 TX>

#7E#7E#01#08#00#00#00#00#00#00#**04**#00#00#00#**18**#03#03

<20100630 21:09.58:990 RX>

#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#87#AE#14#00#00#00#00#3F#00#00#00#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#8A#3D#70#00#00#00#00#3F#19#99#99#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#8C#CC#CC#00#00#00#00#3F#33#33#33#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#8F#5C#28#00#00#00#00#3F#4C#CC#CC#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#91#EB#84#00#00#00#00#3F#66#66#66#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#94#7A#E1#00#00#00#00#3F#80#00#00#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#97#0A#3D#00#00#00#00#3F#8C#CC#CC#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#99#99#99#00#00#00#00#3F#99#99#99#00#00#00#1A#00#00#00#18#00#00#00#01#00#00#00#01#00#00#00#00#3F#9C#28#F5#00#00#00#00#3F#A6#66#66#03#03

<20100630 21:09.59:880 TX>

#7E#7E#02#00#00#00#00#03#03

<20100630 21:09.59:958 RX>

#7E#7E#02#00#00#00#00#03#03

<20100630 21:09.59:958 TX>

#7E#7E#01#**18**#00#00#00#00#00#00#01#00#00#00#00#00#00#00#00#00#00#00#01#00#00#00#00#**3E**#**19**#**99**#**9A**#03#03