The following extract of the *External Mode* ***target*** *debug message log* (level 2) is analyzed to determine the cause of a communication loss following a parameter download from the host to the target. The first section of the log documents the establishing of communications from the very first package (“ext-mode” = **0x78 0x74 0x2D 0x6D 0x6F 0x64 0x65**) until normal operation. For a detailed analysis of communication breakdown [see page 57 ff](#analysis).

Notice the [“circular buffer full” condition on p. 26](#circbufferFULL). This does not seem to have an immediate impact on the performance of the external mode communication. However, it is conceivable, that the subsequent breakdown of communication might still be a late reaction to this event. In a repetition of this experiment the “circular buffer full” condition does no longer occur, yet the communication breakdown appears in the exact same manner as before (same timestamp, same signal values – repeatable). It is therefore concluded, that the cause of the communication breakdown is independent of the encountered “circular buffer full” condition.

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

<1 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x65 **0x78 0x74 0x2D 0x6D 0x6F 0x64 0x65** 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x65 0x78 0x74 0x2D 0x6D 0x6F 0x64 0x65 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x10

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] ExtModeMalloc: Current request: 100 bytes

-[2] ExtModeMalloc: Bytes allocated: 2186, bytes free: 4314

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x10

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x7A

-[2] serial\_set\_string: Sending 0x16

-[2] serial\_set\_string: Sending 0x9F

-[2] serial\_set\_string: Sending 0x48

-[2] serial\_set\_string: Sending 0x2E

-[2] serial\_set\_string: Sending 0xF6

-[2] serial\_set\_string: Sending 0xBD

-[2] serial\_set\_string: Sending 0x62

-[2] serial\_set\_string: Sending 0x89

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x31

-[2] serial\_set\_string: Sending 0x9D

-[2] serial\_set\_string: Sending 0x43

-[2] serial\_set\_string: Sending 0xBB

-[2] serial\_set\_string: Sending 0x8F

-[2] serial\_set\_string: Sending 0xA2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0xF

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] ExtModeFree: Bytes allocated: 2086, bytes free: 4414

-[2] mergeMemBuf: IN

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4414 bytes

-[2] mergeMemBuf: OUT

<1 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

<1 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x4B 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x4B 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: IN

-[2] ExtModeMalloc: Current request: 83 bytes

-[2] ExtModeMalloc: Unaligned allocation address: 0x2221

-[2] ExtModeMalloc: Need 1 alignment byte(s)

-[2] ExtModeMalloc: Adjusted size: 84

-[2] ExtModeMalloc: Aligned allocation address: 0x2220

-[2] ExtModeMalloc: Bytes allocated: 2170, bytes free: 4330

-[2] CheckExtSerialPacket: Suspending processing until there are 84 bytes in the comms line buffer / RX ring buffer.

<1 0x7E 0x7E 0x1 0x4B 0x0 0x0 0x0 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x7D 0x23 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x7D 0x23 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x7D 0x23 0xF 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x4B 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x3 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x3 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x2 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x3 0xF 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: OUT

-[2] SendPktToHost: Sending action Packet type is EXT\_SETPARAM\_RESPONSE (18) with size 4

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x12

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

-[2] SendPktToHost: Sending data...

<2 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x6 0x0 0x0 0x0 0x30 0x3 0x3 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x6 0x0 0x0 0x0 0x30 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... data sent.

-[2] ProcessSelectSignalsPkt: IN

-[2] GetPkt: IN

<1 0x7E 0x7E 0x1 0x30 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x38 0xA0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x30 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x38 0xA0 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: OUT

-[2] UploadLogInfoInit: IN

-[2] UploadLogInfoInit: Allocating memory for uploadInfo->sysTables (updown.c)

-[2] ExtModeMalloc: Current request: 12 bytes

-[2] ExtModeMalloc: Bytes allocated: 2182, bytes free: 4318

-[2] Unknown Function: Allocating memory for sysTable->uploadMap (updown.c)

-[2] ExtModeMalloc: Current request: 12 bytes

-[2] ExtModeMalloc: Bytes allocated: 2194, bytes free: 4306

-[2] Unknown Function: Allocating memory for sysTable->uploadMap[tid] (updown.c)

-[2] ExtModeMalloc: Current request: 16 bytes

-[2] ExtModeMalloc: Bytes allocated: 2210, bytes free: 4290

-[2] Unknown Function: Allocating memory for map->sections (updown.c)

-[2] ExtModeMalloc: Current request: 12 bytes

-[2] ExtModeMalloc: Bytes allocated: 2222, bytes free: 4278

-[2] UploadLogInfoInit: Allocating memory for uploadInfo->circBufs (updown.c)

-[2] ExtModeMalloc: Current request: 36 bytes

-[2] ExtModeMalloc: Bytes allocated: 2258, bytes free: 4242

-[2] UploadBufInit: Allocating memory for circBuf->buf (updown.c)

-[2] ExtModeMalloc: Current request: 2008 bytes

-[2] ExtModeMalloc: Bytes allocated: 4266, bytes free: 2234

-[2] UploadLogInfoInit: Allocating memory for uploadInfo->bufMemList.bufs (updown.c)

-[2] ExtModeMalloc: Current request: 16 bytes

-[2] ExtModeMalloc: Bytes allocated: 4282, bytes free: 2218

-[2] UploadLogInfoInit: Allocating memory for uploadInfo->bufMemList.tids (updown.c)

-[2] ExtModeMalloc: Current request: 10 bytes

-[2] ExtModeMalloc: Unaligned allocation address: 0x19D6

-[2] ExtModeMalloc: Need 2 alignment byte(s)

-[2] ExtModeMalloc: Adjusted size: 12

-[2] ExtModeMalloc: Aligned allocation address: 0x19D4

-[2] ExtModeMalloc: Bytes allocated: 4294, bytes free: 2206

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

-[2] SendResponseStatus: IN

-[2] SendResponseStatus: Response status: 0 (upInfoIdx = 0)

-[2] SendPktToHost: Sending action Packet type is **EXT\_SELECT\_SIGNALS\_RESPONSE** (27) with size 8

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x9 0x0 0x0 0x0 0x4 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1B

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

-[2] SendPktToHost: Sending data...

<2 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x9 0x0 0x0 0x0 0x4 0x3 0x3 0x7E 0x7E 0x2 0x0 0x0 0x0>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x9 0x0 0x0 0x0 0x4 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... data sent.

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

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

-[2] ProcessCancelLoggingPkt: IN

-[2] GetPkt: IN

<1 0x7E 0x7E 0x1 0x4 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x1 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: OUT

-[2] DisplayTriggerStateOnLCD: trigInfo.state = TRIGGER\_UNARMED

-[2] SendResponseStatus: IN

-[2] SendResponseStatus: Response status: 0 (upInfoIdx = 1)

-[2] SendPktToHost: Sending action Packet type is **EXT\_CANCEL\_LOGGING\_RESPONSE** (30) with size 8

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x7 0x0 0x0 0x0 0x20 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1E

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

-[2] SendPktToHost: Sending data...

<2 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x7 0x0 0x0 0x0 0x20 0x3 0x3 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x7 0x0 0x0 0x0 0x20 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... data sent.

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

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

-[2] ProcessSelectTriggerPkt: IN

-[2] GetPkt: IN

<1 0x7E 0x7E 0x1 0x20 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x13 0x88 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x20 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x13 0x88 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: OUT

-[2] SendResponseStatus: IN

-[2] SendResponseStatus: Response status: 0 (upInfoIdx = 0)

-[2] SendPktToHost: Sending action Packet type is **EXT\_SELECT\_TRIGGER\_RESPONSE** (28) with size 8

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1C

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

-[2] SendPktToHost: Sending data...

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... data sent.

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

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

<1 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

<1 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x4 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0x4 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: IN

-[2] CheckExtSerialPacket: Suspending processing until there are 13 bytes in the comms line buffer / RX ring buffer.

<1 0x7E 0x7E 0x1 0x4 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x0 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] GetPkt: OUT

-[2] DisplayTriggerStateOnLCD: trigInfo.state = TRIGGER\_ARMED

-[2] SendResponseStatus: IN

-[2] SendResponseStatus: Response status: 0 (upInfoIdx = 0)

-[2] SendPktToHost: Sending action Packet type is **EXT\_ARM\_TRIGGER\_RESPONSE** (29) with size 8

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1D

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

-[2] SendPktToHost: Sending data...

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... data sent.

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

<1 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

<1 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0xA 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 0x0 0x0 0x0 0xA 0x0 0x0 0x0 0x0 0x3 0x3 ]

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

-[2] SendPktToHost: Sending action Packet type is **EXT\_MODEL\_START\_RESPONSE** (22) with size 0

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x16

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

-[2] SendPktToHost: ... action and size sent.

**[1] model\_init: START\_PACKAGE received. Starting Model...**

**[1] main: Starting RT processes ---------------------------------**

At this stage, the External Mode communication interface has been fully initialized and communication has been established. The model code is launched and the payload section of the core timer Interrupt Service Routine (ISR) is activated. The background task of the target commences with the upload of log data packages.

<ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><1 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0<ISR> 0x3 0x3 ]

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

[1] ExtSetPkt: waitForAck = FAL<ISR>SE -> clear to send

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_se<ISR>t\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x3C

-[2] serial\_set\_string: Sending 0xA3

-[2] serial\_set\_st<ISR>ring: Sending 0xD7

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] seri<ISR>al\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x3D

-[2] serial\_set\_string: Sending 0x23

-[2] serial\_set\_string: Sending<ISR> 0xD7

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x3E

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: <ISR>Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x3D

-[2] serial\_set\_string: Sending 0x75

-[2] serial\_set\_string: Sending 0xC2

-[2] s<ISR>erial\_set\_string: Sending 0x8E

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[<ISR>2] serial\_set\_string: Sending 0xE6

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x6<ISR>6

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISRnding 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x3D

-[2] serial\_set\_string: Sending 0xA3

-[2] serial\_set\_string: Sending 0xD7

-[2] serial\_set\_stri<ISR>ng: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_<ISR>string: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2<ISR>] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3D

<ISR>-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0<ISR>xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sendi<ISR>ng 0x40

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string<ISR>: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3D

-[2] serial\_se<ISR>t\_string: Sending 0xF5

-[2] serial\_set\_string: Sending 0xC2

-[2] serial\_set\_string: Sending 0x8E

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x66

-[2]<ISR> serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Se<ISR>nding 0xF

-[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Sending 0x28

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x86

-[2] serial\_set\_str<ISR>ing: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set<ISR>\_string: Sending 0x3

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

The first log data package has been sent and an acknowledgement package (ACK\_PACKAGE) from the host is needed before further data can be sent.

<ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><ISR><2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

**[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]**

[1] ExtGe<ISR>tPktBlocking: **Received ACK\_PACKET** -> waitForAck = FALSE;

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

The awaited ACK\_PACKET has been received. The target thus continues with the upload of log data packages.

<ISR>-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0<ISR>x1

-[2] serial\_set\_string: Sending 0x90

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string<ISR>: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISR>ng: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x23

-[2] serial\_set\_s<ISR>tring: Sending 0xD7

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x99

-[2] ser<ISR>ial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR**[1] UploadBufAssignMem: WARNING: circBuf full! \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**[1] UploadBufAssignMem: Receive buffer contents:**

**[ ]**

At this moment in time, the main target data buffer of Simulink appears to be full (circbuf – code module “updown.c”). However, note that this temporary lack of buffer space does not appear to have an immediate effect on the upload log data stream, which continues as if nothing had happened. This is to be expected, as the buffer still holds around 2k of previously stored ring buffer data.

>x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x38

-[2] serial\_set\_st<ISR>ring: Sending 0x51

-[2] serial\_set\_string: Sending 0xEA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xAC

-[2] serial\_set\_string: Sending 0xCC

-[2] serial<ISR>\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x4C

-[2] serial\_set\_string: Sending 0xCC<ISR>

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x3F

-[2] serial\_set\_string: Sending 0xC0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string:<ISR> Sending 0x3E

-[2] serial\_set\_string: Sending 0x61

-[2] serial\_set\_string: Sending 0x47

-[2] serial\_set\_str<ISR>ing: Sending 0xAC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set<ISR>\_string: Sending 0xD3

-[2] serial\_set\_string: Sending 0x33

-[2] serial\_set\_string: Sending 0x32

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[<ISR>2] serial\_set\_string: Sending 0x75

-[2] serial\_set\_string: Sending 0xC2

-[2] serial\_set\_string: Sending 0x8E<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0<ISR>xE6

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_strin<ISR>g: Sending 0x85

-[2] serial\_set\_string: Sending 0x1E

-[2] serial\_set\_string: Sending 0xB8

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xF9

-[2] serial\_s<ISR>et\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x8F

-<ISR>[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Sending 0x28

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x6

-[2] serial\_set\_string: Sending <ISR>0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_stri<ISR>ng: Sending 0x99

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x40

-[2] serial\_set\_string: Sending 0x10

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xA3

-[2] serial\_set\_string: Sending 0xD7

-[<ISR>2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x3E

-[2] serial\_set\_string: Sending 0xAE

-[2] serial\_set\_string: Sending 0x14

-[2] serial\_set\_string: Se<ISR>nding 0x7A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string<ISR>: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] seri<ISR>al\_set\_string: Sending 0xB8

-[2] serial\_set\_string: Sending 0x51

-[2] serial\_set\_string: Sending 0xEA

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x99

-[<ISR>2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1<ISR>A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Send<ISR>ing 0xC2

-[2] serial\_set\_string: Sending 0x8F

-[2] serial\_set\_string: Sending 0x5A

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string:<ISR> Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xE6

-[2] serial\_set\_stri<ISR>ng: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial<ISR>\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

[1] ExtSetPktWithACK: ExtMode packet sent, settin<ISR>g waitForAck to TRUE

<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><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><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><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><ISR><ISR><ISR><ISR><ISR><2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

[ 0x7E<ISR> 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

[1] Ex<ISR>tSetPkt: waitForAck = FALSE -> clear to send

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Send<ISR>ing 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x90

-[2] serial\_set\_string: S<ISR>ending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_strin<ISR>g: Sending 0xCC

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x3F

-[2] serial\_set\_string: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_s<ISR>et\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2]<ISR> serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xD7

-[2] serial\_set\_string: Sending 0xA

-[<ISR>2] serial\_set\_string: Sending 0x3C

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F<ISR>

-[2] serial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x3E

-[2] serial\_set\_string: Sending 0xE1

-[2] serial\_set\_string: Sending 0x47

-[2] serial\_set\_string<ISR>: Sending 0xAC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISR>ng: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_str<ISR>ing: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] s<ISR>erial\_set\_string: Sending 0xEB

-[2] serial\_set\_string: Sending 0x85

-[2] serial\_set\_string: Sending 0x1E

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x86<ISR>

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: S<ISR>ending 0xF5

-[2] serial\_set\_string: Sending 0xC2

-[2] serial\_set\_string: Sending 0x8E

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISR>ng: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_s<ISR>tring: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xFF

-[2]<ISR> serial\_set\_string: Sending 0xFF

-[2] serial\_set\_string: Sending 0xFE

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xAC

-[2] serial\_set\_string: Sending 0xC<ISR>C

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x5

-[2] serial\_set\_string: <ISR>Sending 0x1E

-[2] serial\_set\_string: Sending 0xB8

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISR>ng: Sending 0x3F

-[2] serial\_set\_string: Sending 0xC0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x3D

-[2] se<ISR>rial\_set\_string: Sending 0x70

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2<ISR>] serial\_set\_string: Sending 0xD3

-[2] serial\_set\_string: Sending 0x33

-[2] serial\_set\_string: Sending 0x32

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x3F

-[2] serial\_set\_string: Sending 0xF

-[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Se<ISR>nding 0x28

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string:<ISR> Sending 0xE6

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] seria<ISR>l\_set\_string: Sending 0x14

-[2] serial\_set\_string: Sending 0x7A

-[2] serial\_set\_string: Sending 0xE1

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xF9

-[<ISR>2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sendi<ISR>ng 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x6

-[2] serial\_set\_string<ISR>: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x1E

-[2] seri<ISR>al\_set\_string: Sending 0xB8

-[2] serial\_set\_string: Sending 0x51

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x10

-[2] serial\_set\_string: Sending 0x0

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x23

-[2] serial\_set\_string: Sendin<ISR>g 0xD7

-[2] serial\_set\_string: Sending 0xA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

[1] ExtSetPktWithACK: ExtM<ISR>ode packet sent, setting waitForAck to TRUE

<ISR><2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3<ISR>>

[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]

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

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

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_stri<ISR>ng: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x90

-[2] serial\_set\_s<ISR>tring: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] se<ISR>rial\_set\_string: Sending 0x28

-[2] serial\_set\_string: Sending 0xF5

-[2] serial\_set\_string: Sending 0xC2

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x19

<ISR>-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Se<ISR>nding 0x2E

-[2] serial\_set\_string: Sending 0x14

-[2] serial\_set\_string: Sending 0x7A

-[2] serial\_set\_string<ISR>: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_st<ISR>ring: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x33

-[2] s<ISR>erial\_set\_string: Sending 0x33

-[2] serial\_set\_string: Sending 0x32

-[2] serial\_set\_string: Sending 0x0

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xE6

-[2] serial\_set\_string: Sending 0x66<ISR>

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x38

-[2] serial\_set\_string: <ISR>Sending 0x51

-[2] serial\_set\_string: Sending 0xEA

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISRng: Sending 0x3F

-[2] serial\_set\_string: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_st<ISR>ring: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x3D

-[2] serial\_set\_string: Sending 0x70

-[2] <ISR>serial\_set\_string: Sending 0xA2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2<ISR>] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-<ISR>[2] serial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x3F

-[2] serial\_set\_string: Sending 0x42

-[2] serial\_set\_string: Sending 0x8F

-[2] serial\_set\_string: Sen<ISR>ding 0x5A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string:<ISR> Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] seria<ISR>l\_set\_string: Sending 0x47

-[2] serial\_set\_string: Sending 0xAE

-[2] serial\_set\_string: Sending 0x14

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x86

-[2<ISR>] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sendi<ISR>ng 0x4C

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_strin<ISR>g: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x51

-[2] seri<ISR>al\_set\_string: Sending 0xEB

-[2] serial\_set\_string: Sending 0x84

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0xAC

-[2] serial\_set\_string: Sending 0xCC

-<ISR>[2] serial\_set\_string: Sending 0xCC

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x57

-[2] serial\_set\_string: Sen<ISR>ding 0xA

-[2] serial\_set\_string: Sending 0x3C

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x3F

-[2] serial\_set\_string: Sending 0xC0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string<ISR>: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x5C

-[2] serial\_set\_string: Sending 0x28

-[2] seria<ISR>l\_set\_string: Sending 0xF4

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] s<ISR>erial\_set\_string: Sending 0xD3

-[2] serial\_set\_string: Sending 0x33

-[2] serial\_set\_string: Sending 0x32

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> **0x3F**

-[2] serial\_set\_string: Sending **0x61**

-[2] serial\_set\_string: Sending **0x47**

-[2] serial\_set\_string: Sendi<ISR>ng **0xAC**

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending **0x3F**

-[2] serial\_set\_string: S<ISR>ending **0xE6**

-[2] serial\_set\_string: Sending **0x66**

-[2] serial\_set\_string: Sending **0x66**

-[2] serial\_set\_strin<ISR>g: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_stri<ISR>ng: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

[1] ExtSetPktW<ISR>ithACK: ExtMode packet sent, setting **waitForAck to TRUE**

Target variable *waitForAck* is set to true, to await the acknowledgement by the host that the just sent log data package has been received. The target thus calls upon *ExtSerialPortDataPending* to check for received packages from the host. This happens from within *ExtSetPkt* – the target is still trying to upload more log data.

While waiting for the ACK\_PACKET, an **EXT\_SETPARAM** package is intercepted, announcing a **parameter set package** of 0x18 (= 24) bytes. Note that this occurs in the middle of a log data stream, i. e. in between two log data packages which carry a split log data record. The last complete log data record prior to this split record has a timestamp of t = **0x3F6147AC** = 0.8799999 s ≈ 0.88 s (signal value: **0x3FE66666** = 1.8).

<2 0x7E 0x7E 0x1 0x8 0x0 0x0 0x0 0x0 0x0 0x0 0x4 0x0 0x0<ISR> 0x0 0x18 0x3 0x3>

[ 0x7E 0x7E 0x1 0x0 0x0 0x0 0x8 **0x0 0x0 0x0 0x4 0x0 0x0 0x0 0x18** 0x3 0x3 ]

Having intercepted the **EXT\_SETPARAM** package, the target acknowledges the receipt of this package by sending an ACK\_PACKET. Target variable *waitForAck* remains unaffected by this packet interception, i. e. the target is still waiting for an ACK\_PACKET from the host to proceed with the log data upload.

-[2] serial\_set<ISR>\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x2

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

Eventually, the awaited ACK\_PACKET arrives and *ExtSetPkt* can finally continue with the upload of log data to the host. Note that the previously started log data record is continued as if there had not been any interruption (timestamp of t = **0x3F666666** = 0.9 s, signal value: **0x3FF9999A** = 1.95).

<2 0x7E 0x7<ISR>E 0x2 0x0 0x0 0x0 0x0 0x3 0x3>

**[ 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x3 0x3 ]**

[1] ExtGetPktBlocking: **Received ACK\_P**<ISR>**ACKET** -> waitForAck = FALSE;

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

-[2] serial\_set\_string: Sendin<ISR>g 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sen<ISR>ding 0xF0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending **0x3F**

-[2] serial\_set\_string:<ISR> Sending **0x66**

-[2] serial\_set\_string: Sending **0x66**

-[2] serial\_set\_string: Sending **0x66**

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending **0x3F**

-[2] serial\_set\_string: Sending **0xF9**

-[2] serial\_set<ISR>\_string: Sending **0x99**

-[2] serial\_set\_string: Sending **0x9A**

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] se<ISR>rial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x6B

-[<ISR>2] serial\_set\_string: Sending 0x85

-[2] serial\_set\_string: Sending 0x1E

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x40

-[2] serial\_set\_string: Sending 0x6

-[2] serial\_set\_string: Sending 0x<ISR>66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sendin<ISR>g 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendi<ISR>ng 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Send<ISR>ing 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sen<ISR>ding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Se<ISR>nding 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x70

-[2] serial\_set\_string<ISR>: Sending 0xA3

-[2] serial\_set\_string: Sending 0xD6

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x40

-[2] serial\_set\_string: Sending 0x10

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set<ISR>\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seria<ISR>l\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] seri<ISR>al\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x75

-[2] serial\_set\_string: Sending 0xC2

-[2]<ISR> serial\_set\_string: Sending 0x8E

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[<ISR>2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-<ISR>[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0<ISR>x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sendin<ISR>g 0x3F

-[2] serial\_set\_string: Sending 0x7A

-[2] serial\_set\_string: Sending 0xE1

-[2] serial\_set\_string: Sen<ISR>ding 0x46

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string:<ISR> Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_str<ISR>ing: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x1A

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] seria<ISR>l\_set\_string: Sending 0x7F

-[2] serial\_set\_string: Sending 0xFF

-[2] serial\_set\_string: Sending 0xFE

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0x99

-[2<ISR>] serial\_set\_string: Sending 0x99

-[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x0

<ISR>-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A<ISR>

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x<ISR>0

-[2] serial\_set\_string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending <ISR>0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending <ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending<ISR> 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sendi<ISR>ng 0x82

-[2] serial\_set\_string: Sending 0x8F

-[2] serial\_set\_string: Sending 0x5B

-[2] serial\_set\_string: S<ISR>ending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: <ISR>Sending 0x0

-[2] serial\_set\_string: Sending 0x3E

-[2] serial\_set\_string: Sending 0xE6

-[2] serial\_set\_strin<ISR>g: Sending 0x66

-[2] serial\_set\_string: Sending 0x66

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_st<ISR>ring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1A

-[2] serial\_set\_s<ISR>tring: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_<ISR>string: Sending 0x18

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_se<ISR>t\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_s<ISR>et\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x1

-[2] serial\_<ISR>set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial<ISR>\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x85

-[2] ser<ISR>ial\_set\_string: Sending 0x1E

-[2] serial\_set\_string: Sending 0xB8

-[2] serial\_set\_string: Sending 0x0

-[2] s<ISR>erial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] <ISR>serial\_set\_string: Sending 0x3F

-[2] serial\_set\_string: Sending 0x19

-[2] serial\_set\_string: Sending 0x99

-<ISR>[2] serial\_set\_string: Sending 0x9A

-[2] serial\_set\_string: Sending 0x3

-[2] serial\_set\_string: Sending 0x3

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

While waiting for the next ACK\_PACKET, the previously announced **parameter set** package is intercepted (0x18 = 24 bytes, parameter value **0x3DCCCCCD** = 0.1, see [ExtModeLog\_stuck\_upon\_setParam\_Host, p. 15](ExtModeLog_stuck_upon_setParam_Host.docx#stuck)).

<2 0x7E 0x7E 0x1 0x18 0x0 0x0 0x0 0x0 0x0<ISR> 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3D 0xCC 0xCC 0xCD 0x3 0x3>

[ 0x7<ISR>E 0x7E 0x1 0x0 0x0 0x0 0x18 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 ]

Note that, *on the target*, this package interception occurs at the boundary of the last log data record which has been transmitted to the host (no split record). There should therefore be no reason for the target to react unpredictably.

However, the corresponding host record shows that, *on the host*, the sending of this parameter set occurs within a split log data record, for which the first part has already been received, whereas the second part is still on its way ([ExtModeLog\_stuck\_upon\_setParam\_Host, p. 15](file:///C:\Users\fw\_SVN\rtmc9s12-target\trunk\rtmc9s12_CW_R2009b_RTOS\docs\ExtModeLog_stuck_upon_setParam_Host.docx#splitRecord)). **This might constitute the cause of the observed deadlock situation**.

The receipt of the parameter set package is acknowledged to the host. However, the latter appears to not receive or notice this package. This causes the target to remain stuck in *ExtSetPkt*, waiting for an ACK\_PACKET that never arrives. The host-target communication has entered into a deadlock.

-[2] serial\_set\_string: Sending 0x7E

-[2] serial\_set\_string: Sending 0x7E

-[2] seri<ISR>al\_set\_string: Sending 0x2

-[2] serial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

-[2] ser<ISR>ial\_set\_string: Sending 0x0

-[2] serial\_set\_string: Sending 0x0

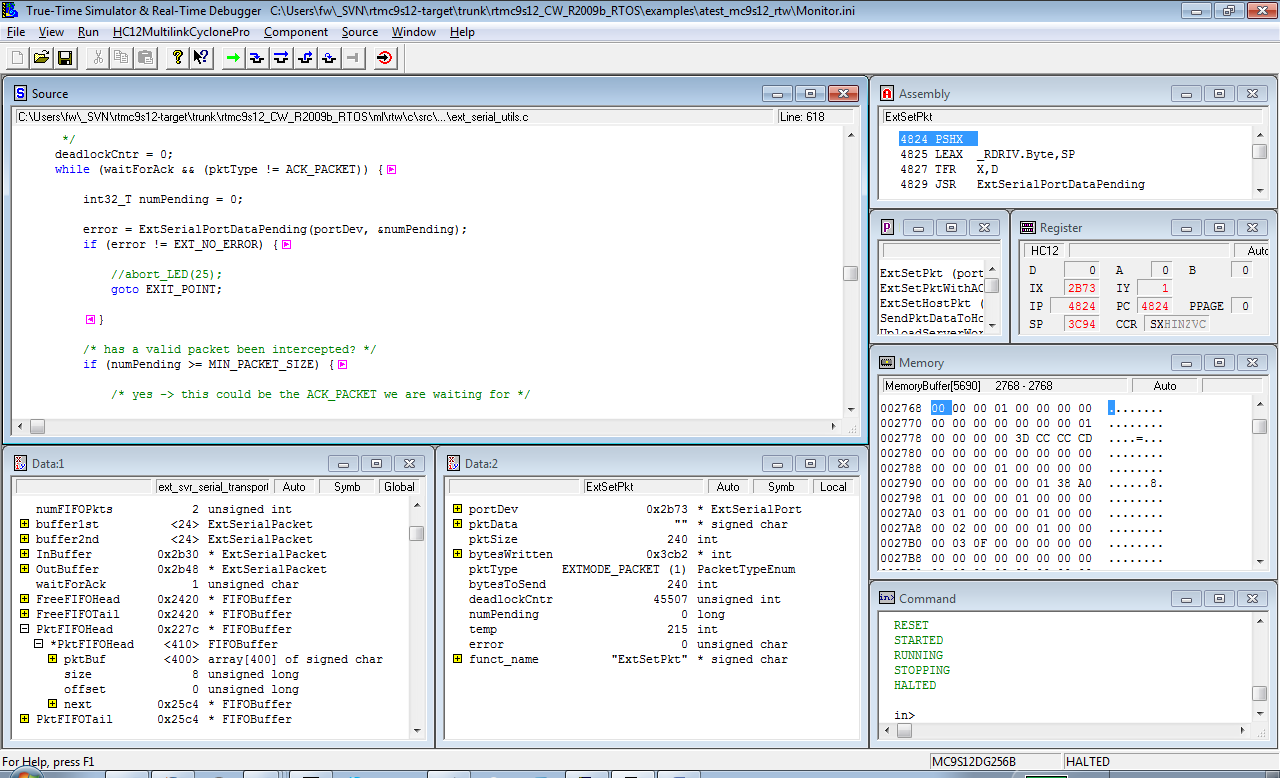
-[2] serial\_set\_string: Sending 0x3

-[2] se<ISR>rial\_set\_string: Sending 0x3

<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><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><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

When the host-target communication has entered the deadlock, the target code remains stuck in *ExtSetPkt*, trying to upload more log data to the host while not yet having processed neither the initial EXT\_SETPARAM package nor the subsequently intercepted parameter set package. Both of the packages have been stored in the PktFIFO queue, bringing the total number of stored packages to “2” and leaving one unused FIFO buffer in the FreeFIFIO queue. This can be seen from the following screen shot of the debugger output window (target execution has been haltet in ExtSetPkt): Pointer PktFIFOHead (🡪 0x227C) points to an 8 byte long package with contents 0x00 0x00 0x00 **0x04** 0x00 0x00 0x00 **0x18**, i. e. the EXT\_SETPARAM package. The *next* pointer points to the parameter set package.

In addition, the call stack indicates that the *UploadServerWork* has not been finished, as we are still attempting to send log data to the host. This also explains, why the intercepted EXT\_SETPARAM package has not yet been processed – the actual interpretation and procecessing of action packages happens within target function *PktServerWork* (called from *rt\_PktServerWork*, see the background task in *main*).



One possible solution to the suspected problem of split log data records could be to extend function *ExtSetPktWithACK* (module: ext\_serial\_utils.c) by a mechanism which ensures that only complete log data records are transmitted.

To this end, the package splitting while loop could be preceeded by a call to a function which returns the length of a potentially trailing incomplete log data record. The comparison with *pktSize* within the while condition should then be modified to *‘pktSize – lenIncomplete’*. This way, both host as well as target will only ever send complete log data records.

Note: This approach relies on information about the internal structure of these log data records as each package to be transmitted has to be scanned to determine the length of its last data record. This is analogous to what has been done to stabilze reception by introducing function *CheckExtSerialPacket* which ensures that only complete packages are being fetched from the comms buffers.

As the internal structure of each log data record is essentially that of a package (minus the head and tail bytes), its length can easily be determined:

* Bytes 1 – 4: 0x00 0x00 0x00 0x1A : packet type (EXT\_UPLOAD\_LOGGING\_DATA)
* Bytes 5 – 8: **0x00 0x00 0x00 0x18** : **data length (L)**
* Bytes 9 – “9 + L”: Record data

*Note that, while this might constitute a solution to the problem at hand, this does not fully explain why exactly an incomplete log data record upsets the host-target communication. Further investigations should be conducted.*