The following extract of the *External Mode* ***target*** *debug message log* (level 2) is analyzed to determine the cause of a packet error which occurs after a parameter download from the host to the target. For a detailed analysis [see page 11 ff](#explanation).

(…)

[1] ExtSetPktWithACK: ExtMode packet <ISR>sent, setting waitForAck to TRUE<LF>

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

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

[1] ExtGetPktBlocking: Received ACK\_PACKET -> w<ISR>aitForAck = FALSE;<LF>

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

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

-[<ISR>2] serial\_set\_string: Sending 0x7E<LF>

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

-[2] serial\_set\_string: Sending 0x30<LF><ISR>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sendin<ISR>g 0x0<LF>

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

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

-[2] serial\_set\_string: Sendin<ISR>g 0x0<LF>

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

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

-[2] serial\_set\_string: Sendi<ISR>ng 0x41<LF>

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

-[2] serial\_set\_string: Sending 0x85<LF>

-[2] serial\_set\_string: S<ISR>ending 0x1E<LF>

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

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

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

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

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

-[2] serial\_set\_strin<ISR>g: Sending 0x66<LF>

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

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

-[2] serial\_set\_s<ISR>tring: Sending 0x0<LF>

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

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

-[2] serial\_set\_<ISR>string: Sending 0x1A<LF>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[1] ExtSet<ISR>PktWithACK: ExtMode packet sent, setting waitForAck to TRUE<LF>

<2 0x7E 0x7E 0x2 0x0 0x0 0x0 0x0 0x<ISR>3 0x3><LF>

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

[1] ExtGetPktBlocking: Received ACK\_PACKET -> waitForAck = FAL<ISR>SE;<LF>

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

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

-[2] serial\_set\_<ISR>string: Sending 0x7E<LF>

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

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

-[2] serial\_s<ISR>et\_string: Sending 0x1<LF>

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x41<LF>

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

-[2] ser<ISR>ial\_set\_string: Sending 0xD7<LF>

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

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

-[2] s<ISR>erial\_set\_string: Sending 0x0<LF>

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

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

-[2] s<ISR>erial\_set\_string: Sending 0x3F<LF>

-[2] serial\_set\_string: Sending 0x86<LF>

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

-[<ISR>2] serial\_set\_string: Sending 0x66<LF>

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x<ISR>18<LF>

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x41<LF>

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

-[2] serial\_set\_string: Send<ISR>ing 0x28<LF>

-[2] serial\_set\_string: Sending 0xF5<LF>

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

-[2] serial\_set\_string: S<ISR>ending 0x0<LF>

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

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

-[2] serial\_set\_string: <ISR>Sending 0x3F<LF>

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

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

-[2] serial\_set\_stri<ISR>ng: Sending 0x9A<LF>

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

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

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

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

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

-[2] serial\_set\_s<ISR>tring: Sending 0x0<LF>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_<ISR>set\_string: Sending 0x41<LF>

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

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

-[2] ser<ISR>ial\_set\_string: Sending 0xE1<LF>

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

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

-[2] s<ISR>erial\_set\_string: Sending 0x0<LF>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sendin<ISR>g 0x41<LF>

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

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

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

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

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

-[2] serial\_set\_string: S<ISR>ending 0x0<LF>

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

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

-[2] serial\_set\_string:<ISR> Sending 0xC0<LF>

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

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

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

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

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

-[2] serial\_set\_stri<ISR>ng: Sending 0x1A<LF>

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

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

-[2] serial\_set\_st<ISR>ring: Sending 0x0<LF>

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_se<ISR>t\_string: Sending 0x0<LF>

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

-[2] serial\_set\_string: Sending 0x41<LF>

-[2] serial\_<ISR>set\_string: Sending 0x1D<LF>

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

-[2] serial\_set\_string: Sending 0xB8<LF>

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

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

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

-[2] se<ISR>rial\_set\_string: Sending 0x0<LF>

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

-[2] serial\_set\_string: Sending 0xD3<LF>

-[2]<ISR> serial\_set\_string: Sending 0x33<LF>

-[2] serial\_set\_string: Sending 0x32<LF>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x41<LF>

-[2] serial\_set\_string: Sending<ISR> 0x1D<LF>

-[2] serial\_set\_string: Sending 0x70<LF>

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

-[2] serial\_set\_string: Sen<ISR>ding 0x0<LF>

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

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

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

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

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

-[2] serial\_set\_string:<ISR> Sending 0x66<LF>

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

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

-[2] serial\_set\_stri<ISR>ng: Sending 0x0<LF>

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

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

-[2] serial\_set\_st<ISR>ring: Sending 0x0<LF>

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

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

-[2] serial\_set\_st<ISR>ring: Sending 0x18<LF>

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

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

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

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

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

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

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

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

-[2] serial\_se<ISR>t\_string: Sending 0x0<LF>

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

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

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

-[2] serial\_set\_string: Sending 0x41<LF>

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

-[2] seria<ISR>l\_set\_string: Sending 0xC2<LF>

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

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

-[2] se<ISR>rial\_set\_string: Sending 0x0<LF>

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

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

-[2] se<ISR>rial\_set\_string: Sending 0x3F<LF>

-[2] serial\_set\_string: Sending 0xF9<LF>

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x1<ISR>8<LF>

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

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending 0x41<LF>

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

-[2] serial\_set\_string: Sendi<ISR>ng 0x14<LF>

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

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

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

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

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

-[2] serial\_set\_string: S<ISR>ending 0x40<LF>

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

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

-[2] serial\_set\_string<ISR>: Sending 0x66<LF>

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

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

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

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

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

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

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

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

-[2] serial\_set\_s<ISR>tring: Sending 0x0<LF>

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

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

-[2] serial\_set\_<ISR>string: Sending 0x1<LF>

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

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

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

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

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

-[2] serial\_se<ISR>t\_string: Sending 0x0<LF>

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

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

-[2] serial\_se<ISR>t\_string: Sending **0x41**<LF>

-[2] serial\_set\_string: Sending **0x1E**<LF>

-[2] serial\_set\_string: Sending **0x66**<LF>

-[2] seria<ISR>l\_set\_string: Sending **0x66**<LF>

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

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

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

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

-[2] serial\_set\_string: Sending **0x40**<LF>

-[2] s<ISR>erial\_set\_string: Sending **0x10**<LF>

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

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

-[2]<ISR> serial\_set\_string: Sending 0x3<LF>

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

[1] ExtSetPktWithACK: ExtMode packet sent<ISR>, setting waitForAck to TRUE<LF>

-[2] SendPktToHost: Sending **action Packet** type is **EXT\_TERMINATE\_LOG\_EVENT (31)** with<ISR> **size 4**<LF>

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

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

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

[1] ExtSetPkt: waitForAck = <ISR>FALSE -> **clear to send**<LF>

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

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

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

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

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

-[2] seria<ISR>l\_set\_string: Sending 0x0<LF>

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

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

-[2] seria<ISR>l\_set\_string: Sending **0x0**<LF>

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

-[2] serial\_set\_string: Sending **0x1F**<LF>

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

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

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

-[2] se<ISR>rial\_set\_string: Sending **0x4**<LF>

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

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

[1] Ex<ISR>tSetPktWithACK: ExtMode packet sent, setting waitForAck to TRUE<LF>

-[2] SendPktToHost: ... **action and size sent**.<LF>

-<ISR>[2] SendPktToHost: **Sending data**...<LF>

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

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

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

[1] ExtSetPkt: wait<ISR>ForAck = FALSE -> **clear to send**<LF>

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

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

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

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

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

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

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

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

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

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

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

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

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

[1] ExtSetPktWithACK: ExtMode packet<ISR> sent, setting waitForAck to TRUE<LF>

-[2] SendPktToHost: ... **data sent**.<LF>

This completes the target side of communicating the **EXT\_TERMINATE\_LOG\_EVENT.** Shortly after this user action “STOP model” is issued. Note that the last log data packet sent from target to host prior to this event had a timestamp of t = **0x416E6666** = 9.9 s, signal value: **0x40100000** = 2.25, see above).

The following target debug log documents the correct shutdown of the External Mode communication system, a soft-reset and the subsequent re-initialization of the target.

<ISR[1] model\_run: RT processes stopped ---------------------------------<LF>

[1] model\_run: Flag 'startModel' reset to FALSE<LF>

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

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

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

-[2] DisplayTriggerStateOnLCD: trigInfo.state = TRIGGER\_HOLDING\_OFF<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->bufMemList.tids (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 4282, bytes free: 2218<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 2218 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->bufMemList.bufs (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 4266, bytes free: 2234<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 2234 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->circBufs[i].Buf (updown.c)<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->circBufs[i].Buf (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2258, bytes free: 4242<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4242 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->circBufs (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2222, bytes free: 4278<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4278 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadMap[tid]->sections (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2210, bytes free: 4290<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4290 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadMap[tid] (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2194, bytes free: 4306<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4306 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadMap (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2182, bytes free: 4318<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4318 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] UploadLogInfoTerm: Freeing memory of uploadInfo->sysTables (updown.c)<LF>

-[2] ExtModeFree: Bytes allocated: 2170, bytes free: 4330<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 4330 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

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

-[2] mergeMemBuf: IN<LF>

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

-[2] mergeMemBuf: OUT<LF>

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

-[2] SendPktToHost: Sending **action Packet** type is **EXT\_MODEL\_SHUTDOWN (20)** with **size 0**<LF>

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

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

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

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

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

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

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

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

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

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

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

-[2] serial\_set\_string: Sending **0x14**<LF>

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

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

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

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

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

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

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

-[2] SendPktToHost: ... **action and size sent**.<LF>

-[2] ExtModeFree: Bytes allocated: 1666, bytes free: 4834<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] ExtModeFree: Bytes allocated: 1246, bytes free: 5254<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 832 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] ExtModeFree: Bytes allocated: 826, bytes free: 5674<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 1252 bytes<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 5674 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] ExtModeFree: Bytes allocated: 418, bytes free: 6082<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 6082 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] ExtModeFree: Bytes allocated: 8, bytes free: 6492<LF>

-[2] mergeMemBuf: IN<LF>

-[2] mergeWithMemBufOnRight: Largest free buffer size: 6492 bytes<LF>

-[2] mergeMemBuf: OUT<LF>

-[2] ExtSerialPortDisconnect: IN<LF>

-[2] ExtSerialPortDisconnect: OUT, error status: 0<LF>

At this stage the target undergoes a soft-reset and re-initializes the micro.

[1] main: Initializing core timer -------------------------------<LF>

[1] main: Initializing model ------------------------------------<LF>

[1] model\_init: MODEL initialised, initialising External Mode interface.<LF>

-[2] ExtSerialPortCreate: IN<LF>

-[2] ExtSerialPortCreate: OUT<LF>

-[2] ExtModeMalloc: Current request: 408 bytes<LF>

-[2] initFreeQueue: Bytes allocated: 8, bytes free: 6492<LF>

-[2] ExtModeMalloc: Unaligned allocation address: 0x28FA<LF>

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

-[2] ExtModeMalloc: Adjusted size: 410<LF>

-[2] ExtModeMalloc: Aligned allocation address: 0x28F8<LF>

-[2] ExtModeMalloc: Bytes allocated: 418, bytes free: 6082<LF>

-[2] ExtModeMalloc: Current request: 408 bytes<LF>

-[2] ExtModeMalloc: Bytes allocated: 826, bytes free: 5674<LF>

-[2] ExtModeMalloc: Current request: 418 bytes<LF>

-[2] ExtModeMalloc: Unaligned allocation address: 0x25BE<LF>

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

-[2] ExtModeMalloc: Adjusted size: 420<LF>

-[2] ExtModeMalloc: Aligned allocation address: 0x25BC<LF>

-[2] ExtModeMalloc: Bytes allocated: 1246, bytes free: 5254<LF>

-[2] ExtModeMalloc: Current request: 418 bytes<LF>

-[2] ExtModeMalloc: Unaligned allocation address: 0x241A<LF>

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

-[2] ExtModeMalloc: Adjusted size: 420<LF>

-[2] ExtModeMalloc: Aligned allocation address: 0x2418<LF>

-[2] ExtModeMalloc: Bytes allocated: 1666, bytes free: 4834<LF>

-[2] ExtModeMalloc: Current request: 418 bytes<LF>

-[2] ExtModeMalloc: Unaligned allocation address: 0x2276<LF>

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

-[2] ExtModeMalloc: Adjusted size: 420<LF>

-[2] ExtModeMalloc: Aligned allocation address: 0x2274<LF>

-[2] ExtModeMalloc: Bytes allocated: 2086, bytes free: 4414<LF>

-[2] ExtSerialPortConnect: IN<LF>

-[2] SCIx\_init: IN, MATLAB communication port: SCI0<LF>

-[2] SCIx\_init: OUT, error status: EXT\_NO\_ERROR<LF>

-[2] ExtSerialPortConnect: OUT, error status: 0<LF>

[1] model\_init: Waiting for START\_PACKAGE...<LF>

We are now ready to receive the next “START model” request from the host.