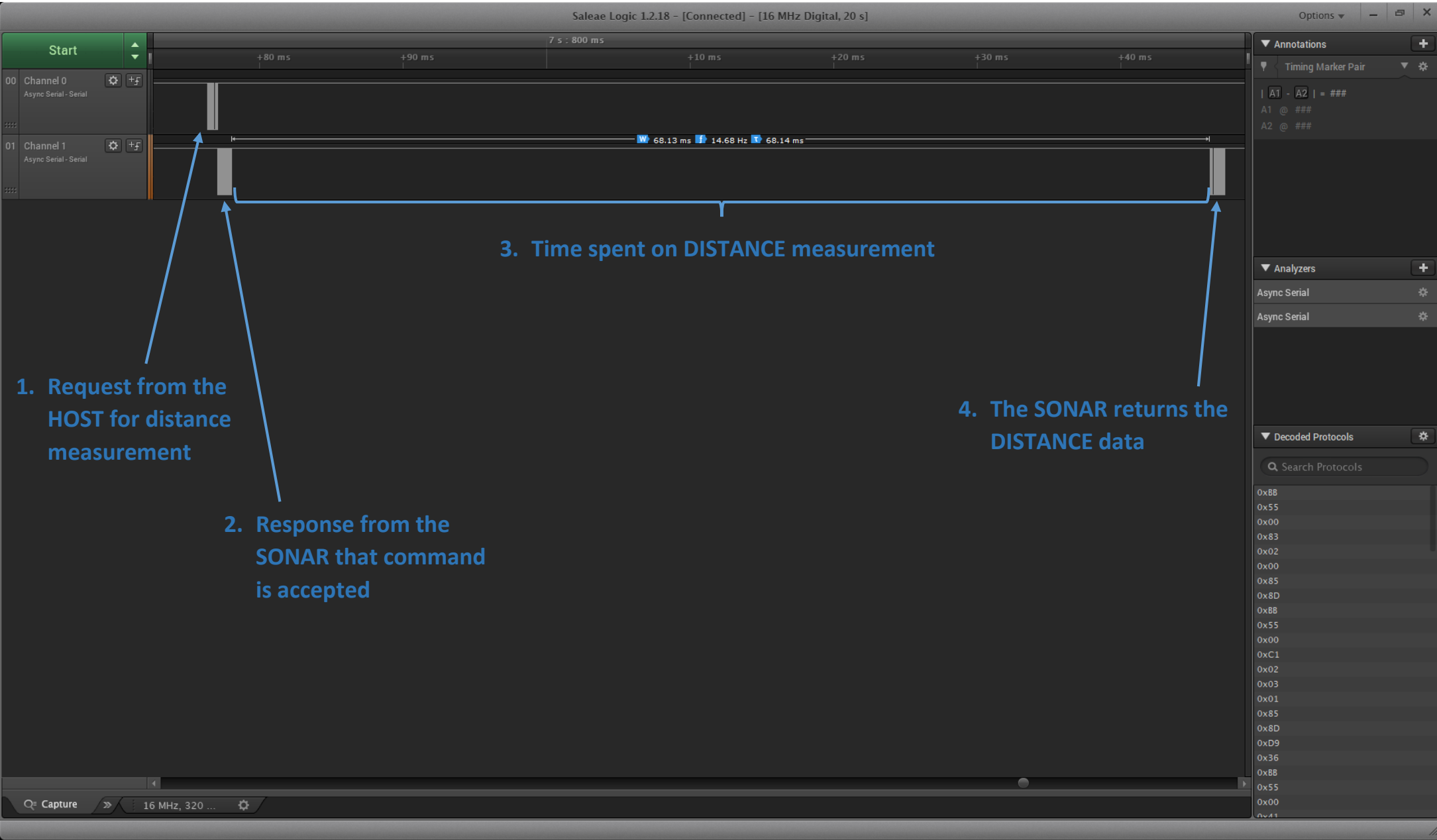


A SNAPSHOT OF THE DATA EXCHANGE BETWEEN THE HOST AND SONAR



REQUEST FROM THE HOST

Saleae Logic 1.2.18 - [Connected] - [16 MHz Digital, 20 s]

Options ▾ - ☰ ✕

RESPONSE (ACKNOWLEDGE) FROM THE SONAR

1. HEADER: 0xBB,0x55

2. ADDRESS of the
SONAR: 0x00

3. MODE bits are set:
TYPE: GETTING: HOST → DEVICE
RESPONSE: asking for response

4. COMMAND ID:
0x02 – Distance data

5. PAYLOAD LENGTH:
0x00 (no payload)

6. CHECKSUM



Annotations

Timing Marker Pair

A1 - A2 | = ###
A1 @ ###
A2 @ ###

Analyzers

Async Serial
Async Serial

Decoded Protocols

Search Protocols

0xBB
0x55
0x00
0x83
0x02
0x00
0x85
0x8D
0xBB
0x55
0x00
0xC1
0x02
0x03
0x01
0x85
0x8D
0xD9
0x36
0xBB
0x55
0x00
0x41

Capture 16 MHz, 320 ...

Start

7 s : 846 ms

7 s : 847 ms

THE SONAR RETURNS DISTANCE DATA

1. HEADER: 0xBB,0x55

2. BROADCAST ADDRESS: 0x00

3. MODE bits are set:
TYPE: CONTENT: DEVICE → HOST
MARK: IS SET

4. COMMAND ID:
0x02 – Distance data

5. PAYLOAD LENGTH:
0x04 (FOUR BYTES)

6. PAYLOAD (DISTANCE in millimeters)
0x03,0xEB = 1003 mm

7. CHECKSUM

Annotations

Timing Marker Pair

A1 - A2 | = ###

A1 @ ###

A2 @ ###

Analyzers

Async Serial [Settings]

Async Serial [Settings]

Decoded Protocols

Search Protocols

0xBB

0x55

0x00

0x83

0x02

0x00

0x85

0x8D

0xBB

0x55

0x00

0xC1

0x02

0x03

0x01

0x85

0x8D

0xD9

0x36

0xBB

0x55

0x00

0x41

Capture

16 MHz, 320 ...