

```
Last login: Mon Apr 13 01:10:28 on ttys000
ROMBOT:~ lashcapierterse$ JLinkRTTClient
###RTT Client: *****
###RTT Client: * SEGGER MICROCONTROLLER GmbH & Co KG *
###RTT Client: * Solutions for real time microcontroller applications *
###RTT Client: *****
###RTT Client: * (c) 2012 - 2014 SEGGER Microcontroller GmbH & Co KG *
###RTT Client: * www.segger.com Support: support@segger.com *
###RTT Client: *
###RTT Client: *****
###RTT Client: * SEGGER J-Link RTT Client Compiled Jun 8 2015 21:25:05 *
###RTT Client: *
###RTT Client: *****
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###RTT Client: Connecting to J-Link RTT Server via localhost:19021 Connected.
SEGGER J-Link V5.00 - Real time terminal output
SEGGER J-Link ARM V7.0, SN=20090928
```

```
Process:
<info> app: We are within
<info> app: enabled step=0
<info> app: MAX30102 PART ID: 0x15
<info> app: MAX30102 REV ID: 0x03
<info> app: bsx_set_workingmode_status = 0
<info> app: bsx_get_hwdependency = 0
<info> app: HwsensorSwitchList.acc = 1
<info> app: HwsensorSwitchList.gyro = 1
<info> app: HwsensorSwitchList.mag = 1
<info> app: RombotB starting
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 6
<info> app: dataArray[3]: 0
<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1469
<info> app: i: 29
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 1
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 189
<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1469
<info> app: i: 30
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: <info> app: dataArray[5]: 213
<info> app: *pun_red_led: 1532
<info> app: *pun_ir_led: 1493
<info> app: i: 47
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 252
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 213
<info> app: *pun_red_led: 1532
<info> app: *pun_ir_led: 1493
<info> app: i: 48
<info> app: aun_red_buffer: 5369<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 253
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 186
<info> app: *pun_red_led: 1533
<info> app: *pun_ir_led: 1466
<info> app: i: 64
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 253
<info> app: dataArray[3]: 0
<info> app: dataArra<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
```

```
<info> app: dataArray[2]: 254
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 193
<info> app: *pun_red_led: 1534
<info> app: *pun_ir_led: 1473
<info> app: i: 81
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<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 4
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 189
<info> app: *pun_red_led: 1540
<info> app: *pun_ir_led: 1469
<info> app: i: 99
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: SP02: -999
<info> app: Heart rate: -999
<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 4
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 9
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 187
<info> app: *pun_red_led: 1545
<info> app: *pun_ir_led: 1467
<info> app: i: 13
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 9
<info> app: dataArray[3]: 0
<info> app: dataArray[4]<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 250
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 174
<info> app: *pun_red_led: 1530
<info> app: *pun_ir_led: 1454
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 12
<info> app: dataArray[3]: 0
<info> app: dataArray<info> app: *pun_red_led: 1548
<info> app: *pun_ir_led: 1475
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 187
<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1467
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<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: <info> app: dataArray[2]: 1
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
```

```
<info> app: dataArray[5]: 187
<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1467
<info> app: i: 65

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

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<info> app: dataArray[2]: 4
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 192

<info> app: *pun_red_l<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 193

<info> app: *pun_red_led: 1531
<info> app: *pun_ir_led: 1473
<info> app: i: 84

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

<info> app: dataArray[0]: 0
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<info> app: Heart rate: -999
<info> app: dataArray[0]: 0

<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 2
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 183

<info> app: *pun_red_led: 1538
<info> app: *pun_ir_led: 1463
<info> app: i: 0

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
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<in<info> app: dataArray[1]: 6
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<info> app: dataArray[4]: 5
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<info> app: *pun_red_led: 1542
<info> app: *pun_ir_led: 1470
<info> app: i: 17

<info> app: aun_red_buffer: 536935628
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<info> app: dataArray[1]: 6
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<info> app: dataArray[5]<info> app: *pun_red_led: 1521
<info> app: *pun_ir_led: 1467
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<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 186

<info> app: *pun_red_led: 1532
<info> app: *pun_ir_led: 1466
<info> app: i: 35

<info> app: aun_red_buffer: 536935628

<info> app: aun_ir_buffer<info> app: dataArray[4]: 5
```



```
<info> app: dataArray[3]: 0
<info> app: dataArray[info] app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 252
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 198
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<info> app: *pun_ir_led: 1478
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<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
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<info> app: dataArray[3]: 0
<info> app: dataArra<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 249
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<info<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 4
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 199
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<info> app: dataArray[2]: 2
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 184
<info> app: *pun_red_led: 1531
<info> app: *pun_ir_led: 1464
<info> app: i: 10
<info> app: aun_red_buffer: 536935628
```

```
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 251
<info> app: <info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 247
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 196
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<info> app: *pun_ir_led: 1476
<info> app: i: 28
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<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 247
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<info> app: dataArra<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
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<info> app: aun_ir_buffer: <info> app: aun_red_buffer: 536935628
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<info> app: dataArray[4]: 5
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<info> app: *pun_ir_led: 1480
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```

<info> app: aun_red_buffer: 536935628
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<info> app: dataArray[5]: 189
<info> app: *pun_red_led: 1526

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<info> app: *pun_ir_led: 1469
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<info> app: dataArray[4]: 5
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<info> app: dataArray[3]: 0
<info> app: dataArray<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 191
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<info> app: *pun_ir_led: 1471
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<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 29
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 191
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<info> app: *pun_ir_led: 1471
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<info> app: dataArray[2]: 7
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 171
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<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 7
<info> app: dataArray[3]: 0
<info> app: dataArray[4]<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 250
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
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<info> app: dataArray[5]: 174
<info> app: *pun_red_led: 1530
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<info> app: i: 74

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 250
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 187

<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1467
<info> app: i: 92

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 187

<info> app: *pun_red_led: 1537
<info> app: *pun_ir_led: 1467
<info> app: i: 93

<info> app: dataArray[0]: 0
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<info> app: dataArray[3]: 0
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<info> app: dataArray[5]: 187

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<info> app: *pun_ir_led: 1467
<info> app: i: 8

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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[1]: 6
<info> app: dataArray[2]: 1
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 186

<info> app: *pun_red_led: 1548
<info> app: *pun_ir_led: 1466
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<info> app: *pun_red_led: 1538
<info> app: *pun_ir_led: 1463
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```

```
<info> app: dataArray[3]: 0
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<info> app: *pun_red_led: 1521
<info> app: *pun_ir_led: 1467
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<info> app: *pun_ir_led: 1467
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 193
<info> app: *pun_red_led: 1550
<info> app: *pun_ir_led: 1473
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<info> app: dataArray[2]: 4
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<info> app: dataArray[1]: 6
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<info> app: aun_red_buffer: 536935628
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<info> app: dataArray[5]: 215

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<info> app: i: 86

<info> app: aun_red_buffer: 536935628
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<info> app: dataArray<info> app: dataArray[0]: 0
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<info> app: *pun_red_led: 1532
<info> app: *pun_ir_led: 1472
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<info> app: aun_red_buffer: 536935628
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<info> app: *pun_red_led: 1521
<info> app: *pun_ir_led: 1468
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<info> app: *pun_red_led: 1519
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<info> app: *pun_red_led: 1530
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<info> app: *pun_red_led: 1530
<info> app: *pun_ir_led: 1473
<info> app: i: 62

<info> app: dataArray[3]: 0
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<info> app: *pun_red_led: 1526
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<info> app: *pun_red_led: 1526
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<info> app: *pun_red_led: 1547
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<info> app: i: 97

<info> app: aun_red_buffer: 536935628

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<info> app: aun_ir_buffer: 536936028
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<info> app: *pun_ir_led: 1447
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<info> app: *pun_ir_led: 1469
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<info> app: aun_red_buffer: 536935628
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<info> app: *pun_ir_led: 1469
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<i<info> app: dataArray[0]: 0
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<info> app: *pun_ir<info> app: *pun_ir_led: 1435
<info> app: i: 72

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<info> app: *pun_ir_led: 1460
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 238
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
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<info> app: *pun_ir_led: 1469
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<info> app: dataArray[0]: 0
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<info> app: dataArray[3]: 0
```



```
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<info> app: dataArray[2]: 236
<info> app: dataArray[3]: 0
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<info> app: dataArray[2]: 234
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 163
<info> app: *pun_red_led: 1514
<info> app: *pun_ir_led: 1443
<info> app: i: 96
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
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<info> app: *pun_ir_led: 1458
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<info> app: *pun_ir_led: 1458
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[5]: 197
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<info> app: *pun_ir_led: 1477
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<info> app: dataArray[0]: 0
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<info> app: i: 47
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```

```
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 231
<info> app: dataArray[3]: 0
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<info> app: *pun_ir_led: 1477
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<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[5]: 216
<info> app: *pun_red_led: 1515
<info> app: *pun_ir_led: 1496
<info> app: i: 65
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
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<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
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<info> app: *pun_red_led: 1534
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[2]: 252
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<info> app: *pun_ir_led: 1482
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<info> app: dataArray[5]: 202
<info> app: *pun_red_led: 1515
<info> app: *pun_ir_led: 1482
<info> app: i: 17
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 170
```

```
<info> app: *pun_red_led: 1531
<info> app: *pun_ir_led: 1450
<info> app: i: 34

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 170

<info> app: *pun_red_led: 1531
<info> app: *pun_ir_<info> app: dataArray[1]: 5

<info> app: dataArray[2]: 250
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 206

<info> app: *pun_red_led: 1530
<info> app: *pun_ir_led: 1486
<info> app: i: 52

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

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<info> app: *pun_red_led: 1525
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<info> app: i: 71

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<info> app: aun_ir_buffer: 536936028

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<info> app: i: 71

<info> app: aun_red_buffer: 536935628
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<info> app: dataArray[3]: 0
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<info> app: dataArray[5]: 185

<info> app: *pun_red_led: 1539
<info> app: *pun_ir_led: 1465
<info> app: i: 88

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

<info> app: dataArray[0]: 0
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<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 235
<info> app: dataArray[3]: 0
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<info> app: dataArray[5]: 180

<info> app: *pun_red_led: 1515
<info> app: *pun_ir_led: 1460
<info> app: i: 4

<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028

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<info> app: dataArray[3]: 0
<info> app: dataArray<info> app: aun_ir_buffer: 536936028
```

<info> app: dataArray[0]: 0
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<info> app: dataArray[3]: 0
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```
<info> app: dataArray[3]: 0
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 188
<info> app: *pun_red_led: 1497
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<info> app: dataArray[5]: 181
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<info> app: *pun_ir_led: 1461
<info> app: i: 82
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```

```
<info> app: dataArray[2]: 238
<info> app: dataArray[3]: 0
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<info> app: Heart rate: -999
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<info> app: dataArray[5]: 175
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<info> app: dataArray[4]: 5
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 232
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 181
```

```
<info> app: *pun_red_led: 1512
<info> app: *pun_ir_led: 1461
<info> app: i: 71

<info> app: aun_red_buffer: 536935628

<info> app: aun_ir_buffer<info> app: *pun_ir_led: 1448
<info> app: i: 88

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<info> app: aun_ir_buffer: 536936028

<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 253
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 168

<info> app: *pun_red_led: 1533
<info> app: *pun_ir_led: 1448
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<info> app: *pun_ir_1<info> app: dataArray[0]: 0

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<info> app: *pun_ir_led: 1482
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<info> app: aun_ir_buffer: 536936028

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<info> app: dataArray[3]: 0

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<info> app: dataArray[3]: 0
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<info> app: dataArray[5]: 188

<info> app: *pun_red_led: 1526
<info> app: *pun_ir_led: 1468
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<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 163

<info> app: *pun_red_led: 1514
<info> app: *pun_ir_led: 1443
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<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
```

```
<info> app: dataArray[0]: 0
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<info> app: dataArray[3]: 0
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<info> app: dataArray[2]: 249
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 174
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<info> app: aun_ir_buffer: 536936028
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[2]: 252
<info> app: dataArray[3]: 0
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 234
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 182
<info> app: *pun_red_led: 1514
<info> app: *pun_ir_led: 1462
<info> app: i: 44
```



```
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 234
<info> app: dataArray[3]: 0
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 168
<info> app: *pun_red_led: 1531
<info> app: *pun_ir_led: 1448
<info> app: i: 62
<info> app: aun_red_buffer: 536935628
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<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[5]: 178
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<info> app: *pun_ir_led: 1458
<info> app: i: 80
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<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 178
<info> app: *pun_red_led: 1504
<info> app: *pun_ir_led: 1458
<info> app: i: 81
<info> app: aun_red_buffer: 536935628
<info> app: *pun_red_led: 1520
<info> app: *pun_ir_led: 1490
<info> app: i: 98
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[2]: 240
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<info> app: *pun_ir_led: 1490
<info> app: i: 99
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<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 164
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<info> app: *pun_ir_led: 1444
<info> app: i: 14
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<info> app: aun_ir_buffer: 536936028
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<info> app: dataArray[2]: 251
<info> app: dataArray[3]: 0
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 192
<info> app: *pun_red_led: 1524
<info> app: *pun_ir_led: 1472
<info> app: i: 32
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
```



```
<info> app: dataArray[4]: 5
<info> app: dataArray[5]: 178
<info> app: *pun_red_led: 1518
<info> app: *pun_ir_led: 1458
<info> app: i: 20
<info> app: aun_red_buffer: 536935628
<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info<info> app: dataArray[0]: 0
<info> app: dataArray[1]: 5
<info> app: dataArray[2]: 235
<info> app: dataArray[3]: 0
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<info> app: *pun_red_led: 1515
<info> app: *pun_ir_led: 1484
<info> app: i: 38
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<info> app: aun_ir_buffer: 536936028
<info> app: dataArray[0]: 0
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<info> app: dataArray[2]: 235
<info> app: dataArray[3]: 0
<info> app: dataArra###RTT Client: Connection closed by J-Link DLL. Going to reconnect.
###RTT Client: Connecting to J-Link RTT Server via localhost:19021 .....
```