

# of ADC Samples	Pulses	Expected bin file size (byte) (nTx =4, nRx = 4, byte per Sample = 2)	Obtained bin file size (byte)	Last ADC buffer data saved into bin file correctly?	Final result
256	128	1048576	1048576	Yes	• Passed
384	128	1572864	1572864	Yes	• Passed
512	64	1048576	524288	No	• Failed
512	128	2097152	1048576	No	• Failed
640	128	2621440	1310720	Yes	• Failed
768	128	3145728	1572864	Yes	• Failed

Test config: No of ADC Samples: 384, No of Chirps: 128 ==> **Passed**

Memory Browser X

0xA5000000

32-Bit Hex - TI Style

0xA5000000 01360148 01D0F18C 03C102C5 04D00495 042A046C 01D90308 025801C8 032802A5
043103F4 03A50426 01FC02C7 0274021C 038702FC 04830408 0401045F 025703C2
0xA5000040 00B50157 011300E1 013101B8 006100E0 FEF8FFC8 FD12FD05 FE34FD44 FB8CF370
0xA5000080 FF8EFCDD FE59FF13 FD58FD06 FD05FD25 FEFDDF06 00760000 00B0E0E0 FE46FF7E
0xA50000C0 FDCAFDCD FF70FE58 01A0008E 01020168 FE3AFF93 F0B2FD02 FEF3FE21 005E0007
0xA5000100 FF4AFDDE FE41FEC5 FD3CFD03 FDC6FE3A FC26FC08 FCA3FC3B DCD3FD06 FD70FE02
0xA5000140 FD3CFD06 FEFCE18 00B00020 001C005E 00040078 020800F3 0288029E 018301F2
0xA5000180 00490129 008A0044 005B004F 01C20134 01940193 018201AE 028001EC 038E02FA
0xA50001C0 02B802D1 004801C8 000DFD08 00900087 008000F3 FDC0FF1F FDF9F0D5 FE04FE31
0xA5000200 0053FD06 FF90FF11 F8E0FFD4 FFEFFFCB FEAEFFD1 FC77FD51 F80E00B8 FC33FC2C
0xA5000240 F8AE0793 01520834 F04F0809 F0D7F007 F001F01E FC49FC7E FAD0F009
0xA5000280 FBA1FB18 FD42FC2D FF9AFF2A FE43FEFB FE1FFE21 FE0DFE20 00A4FFED 030A0190
0xA50002C0 030B038E 02320268 02F50271 040803E1 03A60399 032303A2 02240241 00C501C9
0xA5000300 00390025 FFD30008 011C005C FFE30083 FDC1FF0A F0F2FD2F F8E0FF01 007E002B
0xA5000340 FF1CFF6E FDC9FE49 F08CFD35 FEFCEFE8 F0BFF15 FE85FEB8 FE4FE05 F0B7FE0F
0xA5000380 FFC8FF1E 00A00030 008E0097 00E400D0 003D00AB FFE7FFD9 003008 FFFA0095
0xA50003C0 015201A5 00DE0105 00D000D7 00B0009C F9980030 FFE2FF7A 00F060 FF770079
0xA5000400 F277FED8 00B30040 015600F0 024D0217 013501AB 007900A5 01F080 018 0183
0xA5000440 01F401E6 00E101BC FFA8001B 009FF88 017E0186 0114010A 01A80135 020 01FF
0xA5000480 00C7017F 02500125 044803D7 047304E5 044383FC 04C20484 04F504A7 051 0501
0xA50004C0 06220570 06A00679 05D50630 03E004F4 0360038D 041C03AA 03000419 043 0278
0xA5000500 FF4F0038 FE95FECF FFA9FEF4 FEBAF85 FC15FD53 FC99FE2 FE72F00 FF58FF70
0xA5000540 FF61FF21 0032FFE8 00C40028 01D0F159 02AF0252 02150272 0278021A 02BF02C6
0xA5000580 01B80280 015E0122 02D80229 037E0344 0190029F 006700A6 00A10064 015A0140
0xA50005C0 00A00C4 FF29FF5B 0025FF27 0198014C 01800139 0045009A 01CC00D8 03BA0286
0xA5000600 05280498 0587059F 047F04F0 044E0448 04D8044E 06510587 05B1064A 02E20498
0xA5000640 00E801AA 018200D2 021A0218 00E401C7 FEE7FEF3 FCEAFDC8 FDC2FD1A F0E1FE1E
0xA5000680 FDB5FE95 FCF6FD36 FCS2FC06 FCD2FC53 FDD4FC78 FF45FECF FF77F63 F0AAFE53
0xA50006C0 FE29FD82 0003FF3B 025101EE 01B5023B FF930080 FF9E5F56 00C00033 01620 018
0xA5000700 FF550058 FE50FEC1 FDFEFD0C FE05FE4F FDB0FDAB FD23FD87 FCBFCDD0 FC250 018
0xA5000740 FCE9FC14 F0FFFE34 FF72FFB5 FD44FE43 FD1EFD04 FE5FD0A6 013B0027 013A0159
0xA5000780 0052010C 01520081 02F6021C 044E03F1 04460426 04410464 04F5048E 04690483
0xA50007C0 04110469 013902CE 00FD008E 01540140 00FB0147 FE35FFAF F0B0FD77 FC85FC0C
0xA5000800 F06EFD0C F8B8FCAB F8B7FB8A FC08FB9C FC18FC39 FB12FB40 FB99FAF9 FD11FC2
0xA5000840 F0D5FD38 FCA9FD0B F8F5FBE7 FCDACFBF FE91FD39 FDEDF3F9 FE2DFE44 FD28FD01
0xA5000880 FDC5FD5B FE19FDFA FE95FEA3 FC6FD0B8 FCF5FC87 FC77FC15 FE5FDC5 0039FF04
0xA50008C0 FFE700AC F02FF4A 0058FF7B 022E0180 01CA01E3 025C0250 02920244 02AC02CA
0xA5000900 038E02DE 039A03A3 04D0401E 042704D3 028E037A 017301A2 017801A0 00A00321
0xA5000940 FE3CFFA4 FBC4FDCD FB42FB19 FC09FBF4 FBBCFC21 F888FBAA F80FB96 FC05FB8E
0xA5000980 F2B8FC61 FE2FD09 7FEFF718 006FFFE0 007A0095 00F60072 03210248 03D00361
0xA50009C0 02B402C4 02570259 023E0246 028F025C 01A00297 FECC002C F09AFEB6 F0EFD092
0xA5000A00 FE32F353 F0B7FE18 F439FC8A FC29FBFD F30F0C9C FDC6FDC6 FF4FE01 FF6CF746
0xA5000A40 F08BF550 FF70FEFF 010700AB 02F7025A 032D0329 031C0300 036E0353 045903FE
0xA5000A80 030E0428 035A03C6 027702A2 02800264 028C0D14 01060180 F8F60668 FEE9FF11
0xA5000AC0 FF46FF53 FF3CFF2F FF5FF72 FFC9FE08 FE99FEA2 F8FEFEC8 FDD3FF8 0014FD03
0xA5000B00 002C0054 00E50063 013900F7 014F0171 000500AB FF8CFBB8 0029FE6 00010046
0xA5000B40 FF3AFF90 FEAF5F0E FEEAFEB0 FE4DFE96 FDCEFD06 FDE1FD98 FEEFE96 FEE6FED8
0xA5000B80 FDC2FE56 FDF9FD7E FEAF4E48 00B1FFC3 013011A 01020129 00F900C3 00000170
0xA5000BC0 FFF6001B F8B80008 FF92FFD0 0037FFE3 012C0094 00CF0130 FFF8006F 00A7FFFC

Awr2544 – ADC Buffer (0xA5000000)

Wireshark UDP Pkt data

00f0 34 01 c2 01 93 01 94 01 ae 01 b2 01 ec 01 8d 02 4
0100 fa 02 0e 03 d1 02 bb 02 c8 01 48 00 d0 ff 0d 00
0110 87 00 9d 00 f3 00 80 00 1f ff cd fd 5f fd f9 fd
0120 31 fe d4 fe d6 ff 53 00 f1 ff 90 ff d4 ff be ff
0130 cb ff ef ff d1 ff ae fe 51 ff 77 fc bf fb 8e fb
0140 20 fc c3 fc 79 fc be fb 34 fb fa f9 c7 f8 47 f8
0150 89 fc d9 f8 dd f9 d7 fb 1e fd 01 fd 7f fc 49 fc
0160 89 fb dd fa 18 fb a1 fb 2d fc 42 fd 2a ff 9a ff
0170 fb fe 43 fe 21 fe 1f fe 20 fe ed fe ed ff a4 00
0180 9d 01 0a 03 be 03 0b 03 68 02 32 02 71 02 f5 02
0190 e1 03 08 04 99 03 a6 03 a2 03 23 03 41 02 24 02
01a0 c9 01 c5 00 25 00 39 00 08 00 d3 ff 5c 00 1c 01
01b0 c3 00 e3 ff 0a ff c1 fd 2f fd f2 fd 01 ff 8e ff
01c0 2b 00 7e 00 e6 ff 1c fd 49 fe c9 fd 35 fd 8c fd
01d0 58 fe cb fe 15 ff db fe bc fe 85 fe 89 fe 8e fe
01e0 8f fe b7 fe 1e ff c8 ff 30 00 a0 00 97 00 8e 00
01f0 ff 00 00 00 00 00 00 00 d9 ff e7 ff 86 00 a3 00
0200 95 00 fa ff

Last 4 bytes
sent by
DCA1000EVM:
95-00-fa-ff

Last 4 bytes in
ADCBUFFER:
95-00-fa-ff

mmw_main.c, 2 M mmwaveconfig.txt profile_monitor_awr2544.cfg adc_data_Raw_0.bin

build > captured_adc_AWR2544 > adc_data_Raw_0.bin

00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F Decoded Text

0077FF90 99 03 A6 03 A2 03 23 03 41 02 24 02 C9 01 C5 00 # . A . \$

0077FFA0 25 00 39 00 08 00 D3 FF 5C 00 1C 01 B3 00 E3 FF % . 9 . \ .

0077FFB0 0A FF C1 FD 2F FD F2 FD 01 FF 8E FF 2B 00 7E 00 / . + . ~

0077FFC0 E6 FF 1C FF 49 FE 9C FD 35 FD 8C FD 58 FE CB FE I . 5 . X

0077FFD0 15 FF DB FE BC FE 85 FE 89 FE 8E FE 8F FE B7 FE

0077FFE0 1E FF C8 FF 30 00 A0 00 97 00 8E 00 DF 00 EA 00 0

0077FFF0 AB 00 3D 00 D9 FF E7 FF 86 00 A3 00 95 00 FA FF

Last 4 bytes
saved in bin
file: 02-ff-6a-ff

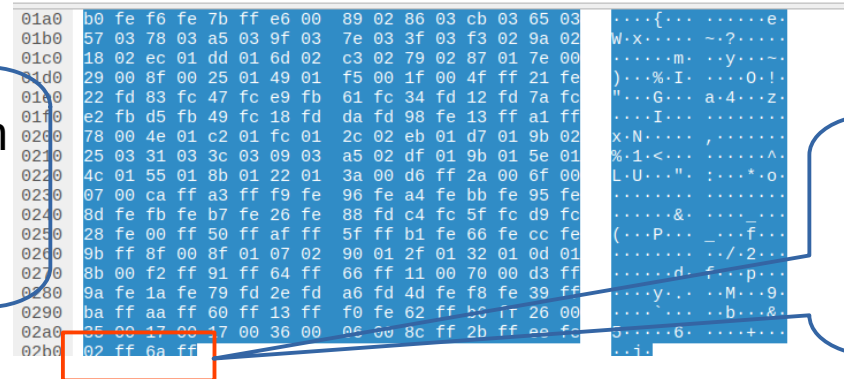
Saved bin file

Test config: No of ADC Samples: 512, No of Chirps: 128 ==> **Failed**

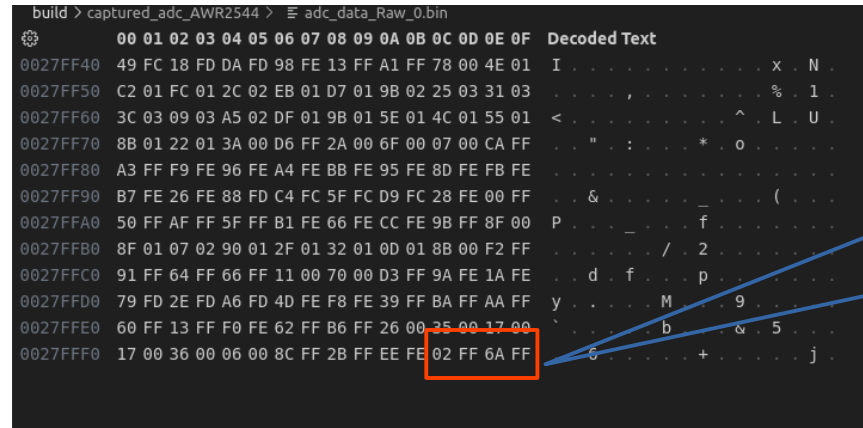


Last 4 bytes in
ADCBuffer:
02-51-01-a9

Wireshark UDP Pkt data



Last 4 bytes
sent by
DCA1000EVM:
02-ff-6a-ff



Last 4 bytes
saved in bin
file: 02-ff-6a-ff

Awr2544 – ADC Buffer (0xA5000000)

Saved bin file

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