

- Board is not starting up, but can connect JTAG.
- ROM Code has a data logger.
- Read “pu\_irom\_log\_buffer”  
0x00902190    Data            256

```
typedef enum pu_irom_log_entry {
ROM_LOG_BOOTMODE_INTERNAL_FUSE    = 0x00010000,
ROM_LOG_BOOTMODE_SERIAL            = 0x00010001,
ROM_LOG_BOOTMODE_INTERNAL          = 0x00010002,
ROM_LOG_BOOTMODE_TEST              = 0x00010003,
ROM_LOG_SEC_CONFIG_FAB              = 0x00020000,
ROM_LOG_SEC_CONFIG_RETURN           = 0x00020033,
ROM_LOG_SEC_CONFIG_OPEN             = 0x000200F0,
ROM_LOG_SEC_CONFIG_CLOSED           = 0x000200CC,
ROM_LOG_DIR_BT_DIS_VALUE0           = 0x00030000,
ROM_LOG_DIR_BT_DIS_VALUE1           = 0x00030001,
ROM_LOG_BT_FUSE_SEL_VALUE0          = 0x00040000,
ROM_LOG_BT_FUSE_SEL_VALUE1          = 0x00040001,
ROM_LOG_PRIM_IMAGE_SELECT           = 0x00050000,
ROM_LOG_SEC_IMAGE_SELECT            = 0x00050001,
ROM_LOG_PRIM_BOOTDEVICE_NAND        = 0x00060000,
ROM_LOG_PRIM_BOOTDEVICE_USDHC       = 0x00060001,
ROM_LOG_PRIM_BOOTDEVICE_SATA        = 0x00060002,
ROM_LOG_PRIM_BOOTDEVICE_I2C         = 0x00060003,
ROM_LOG_PRIM_BOOTDEVICE_ECSPi       = 0x00060004,
ROM_LOG_PRIM_BOOTDEVICE_NOR         = 0x00060005,
ROM_LOG_PRIM_BOOTDEVICE_ONENAND     = 0x00060006,
ROM_LOG_REC_BOOTDEVICE_I2C          = 0x00061003,
ROM_LOG_REC_BOOTDEVICE_ECSPi        = 0x00061004,
ROM_LOG_REC_BOOTDEVICE_NONE         = 0x00061FFF,
ROM_LOG_DEVICE_INIT_CALL             = 0x00070000,
ROM_LOG_DEVICE_INIT_PASS             = 0x000700F0,
ROM_LOG_DEVICE_INIT_FAIL             = 0x00070033,
ROM_LOG_DEVICE_READ_DATA_CALL        = 0x00080000,
ROM_LOG_DEVICE_READ_DATA_PASS        = 0x000800F0,
ROM_LOG_DEVICE_READ_DATA_FAIL        = 0x00080033,
ROM_LOG_AUTHENTICATION_STATUS        = 0x00090000,
ROM_LOG_PLUGIN_IMAGE_CALL            = 0x000A0000,
ROM_LOG_PLUGIN_IMAGE_PASS            = 0x000A00F0,
ROM_LOG_PLUGIN_IMAGE_FAIL            = 0x000A0033,
ROM_LOG_PROGRAM_IMAGE_CALL           = 0x000B0000,
ROM_LOG_SDP_ENTRY                   = 0x000C0000,
ROM_LOG_SDP_IMAGE_CALL               = 0x000D0000,
}
pu_irom_log_entry_t;
```

- Successful NAND boot:

Disassembly Memory Modules Events Outline Linked: imx6q

0x00902190 1024

S:0x00902190	0x00010002	0x000200F0	0x00030000	0x00040000	0x00050000	0x00060000	0x00070000
S:0x009021AC	0x000700F0	0x00080000	0x00000200	0x000800F0	0x00080000	0x00000201	0x000800F0
S:0x009021C8	0x00090000	0x000A2233	0x000B0000	0x278006E0	0x00000000	0x00000000	0x00000000

Disassembly Memory Modules Events Outline Linked: imx6q

0x00907400 1024

S:0x00907400	0x402000D1	0x278006E0	0x00000000	0x2780042C	0x27800420	0x27800400	0x00000000
S:0x0090741C	0x00000000	0x27800000	0x0002A13C	0x00000000	0x40A002D2	0x049C02CC	0x98070E02
S:0x00907438	0x00000C00	0x58070E02	0x00000000	0x88050E02	0x30000000	0x94050E02	0x30000000
S:0x00907454	0x6C050E02	0x30000000	0x78050E02	0x30000000	0x4C070E02	0x30000000	0x7C050E02
S:0x00907470	0x30000000	0x8C050E02	0x00000000	0x9C050E02	0x30000000	0xA0050E02	0x30000000
S:0x0090748C	0x8C070E02	0x30000000	0x50070E02	0x00000200	0xA8050E02	0x28000000	0xB0050E02

- Fail NAND Boot (Primary & Secondary):

```
>BKM>dml 902190
00902190: 00010002 000200F0 00030000 00040000 .....
009021A0: 00050000 00060000 00070000 00070033 .....3
>BKM>
009021B0: 00050001 00060000 00070000 00070033 .....3
009021C0: 00061004 00080000 00000000 000800F0 .....
>BKM>
009021D0: 00090000 000A2233 000C0000 00000000 ..... "3.....
009021E0: 00000000 00000000 00000000 00000000 .....
```