

Reconstructed stacktrace:

```
PC 0x0802e5c8 -> serial/serial.c    uart_ioctl():10-16
LR 0x0803015f -> vfs/fs_ioctl.c      file_vioctl():80-90
LR 0x08030207 -> vfs/fs_ioctl.c      ioctl():32-36
LR 0x080e7e2f -> mavlink/modules__mavlink_unity.cpp Mavlink::get_free_tx_buf():22-36
LR 0x080f362b -> mavlink/streams/COMMAND_LONG.hpp
    MavlinkStreamCommandLong::send():24-52
LR 0x080f22cf -> mavlink/modules__mavlink_unity.cpp MavlinkStream::update():178-190
LR 0x080f6381 -> mavlink/modules__mavlink_unity.cpp Mavlink::task_main(int, char**):2532-2538
```

[hardfault_log] -- 2025-12-02-15:01:45 Begin Fault Log --

System fault Occurred on: 2025-12-02-15:01:45

Type:Hard Fault in file:armv7-m/arm_hardfault.c at line: 173 running task: mavlink_if2

FW git-hash: 99c40407ffd7ac184e2d7b4b293f36f10fe561ef

Build datetime: Nov 4 2025 14:23:52

Build url: localhost

Processor registers: from 0x30035ff4

r0:0x30035830 r1:0x00000309 r2:0x3003612c r3:0x417028f5 r4:0x30031040 r5:0x3003612c

r6:0x00000309 r7:0x38006f60

r8:0x24000612 r9:0x2400618c r10:0x0819c2c7 r11:0x00000000 r12:0x00000000 sp:0x300360c8

lr:0x0803015f pc:0x0802e5c8

xpsr:0x21000000 basepri:0x000000f0 control:0x00000004

exe return:0xfffffe9

Fault status registers: from NVIC

cfsr:0x01000000

hfsr:0x40000000

dfsr:0x00000000

mmfsr:0x00000000

bfsr:0x00000000

afsr:0x00000000

abfsr:0x00000000

IRQ stack:

top: 0x2400f80

sp: 0x2400f10 Valid

bottom: 0x2400c80

size: 0x00000300

Invalid Stack! (Corrupted TCB) Stack base: 0x2400c80 Stack size: 0x00000300

User stack:

top: 0x300363e0

sp: 0x300360c8 Valid

bottom: 0x300358f8

size: 0x00000ae8

Invalid Stack! (Corrupted TCB) Stack base: 0x300358f8 Stack size: 0x00000ae8

Interrupt sp memory region, stack pointer lies within stack

0x240011cc 0x00000000

0x240011c8 0x00000000

0x240011c4 0x240011d8

0x240011c0 0x00000000

0x240011bc 0x00000000

0x240011b8 0x00000000

0x240011b4 0x00000000
0x240011b0 0x240011c4
0x240011ac 0x00000000
0x240011a8 0x00000000
0x240011a4 0x00000000
0x240011a0 0x00000000
0x2400119c 0x240011b0
0x24001198 0x00000000
0x24001194 0x00000000
0x24001190 0x00000000
0x2400118c 0x00000000
0x24001188 0x2400119c
0x24001184 0x00000000
0x24001180 0x00000000
0x2400117c 0x00000000
0x24001178 0x00000000
0x24001174 0x24001188
0x24001170 0x00000000
0x2400116c 0x00000000
0x24001168 0x00000000
0x24001164 0x00000000
0x24001160 0x24001174
0x2400115c 0x00000000
0x24001158 0x00000000
0x24001154 0x00000000
0x24001150 0x00000000
0x2400114c 0x24001160
0x24001148 0x00000000
0x24001144 0x00000000
0x24001140 0x00000000
0x2400113c 0x00000000
0x24001138 0x2400114c
0x24001134 0x00000000
0x24001130 0x00000000
0x2400112c 0x00000000
0x24001128 0x00000000
0x24001124 0x24001138
0x24001120 0x00000001
0x2400111c 0x20001640
0x24001118 0x38004a98
0x24001114 0x240010c0
0x24001110 0x00000000
0x2400110c 0x00000000
0x24001108 0x00000000
0x24001104 0x00000000
0x24001100 0x00000000
0x240010fc 0x24001124
0x240010f8 0x00000000
0x240010f4 0x00000000
0x240010f0 0x00000000
0x240010ec 0x00000000
0x240010e8 0x240010ac

0x240010e4 0x00000001
0x240010e0 0x3800e640
0x240010dc 0x2400094c
0x240010d8 0x00000000
0x240010d4 0x00000000
0x240010d0 0x00000001
0x240010cc 0x20001640
0x240010c8 0x38005408
0x240010c4 0x00000000
0x240010c0 0x00000000
0x240010bc 0x00000000
0x240010b8 0x00000000
0x240010b4 0x00000000
0x240010b0 0x00000000
0x240010ac 0x240010fc
0x240010a8 0x00000000
0x240010a4 0x00000000
0x240010a0 0x00000000
0x2400109c 0x00000000
0x24001098 0x24001084
0x24001094 0x00000000
0x24001090 0x00000000
0x2400108c 0x00000000
0x24001088 0x00000000
0x24001084 0x240010e8
0x24001080 0x24001098
0x2400107c 0x30003b00
0x24001078 0x30034670
0x24001074 0x38000bf0
0x24001070 0x38002ea0
0x2400106c 0x00000000
0x24001068 0x00000000
0x24001064 0x300352f0
0x24001060 0x24000f94
0x2400105c 0x300352f0
0x24001058 0x2000ac30
0x24001054 0x00000000
0x24001050 0x00000000
0x2400104c 0x00000006
0x24001048 0x00000020
0x24001044 0x000004a6
0x24001040 0x00000000
0x2400103c 0x00000000
0x24001038 0x00000000
0x24001034 0x00000000
0x24001030 0x00000000
0x2400102c 0x00000000
0x24001028 0x0000006b
0x24001024 0x73615420
0x24001020 0x656c6449
0x2400101c 0x2400aad0
0x24001018 0x00000000

0x24001014 0x00000000
0x24001010 0x00000000
0x2400100c 0x00000000
0x24001008 0x00000000
0x24001004 0x00000000
0x24001000 0x00000000
0x24000ffc 0x00000000
0x24000ff8 0x00000000
0x24000ff4 0x00000000
0x24000ff0 0x00000000
0x24000fec 0x00000000
0x24000fe8 0x2400a8f4
0x24000fe4 0x2400a8dc
0x24000fe0 0x000002d6
0x24000fdc 0x00000000
0x24000fd8 0x00000000
0x24000fd4 0x00000000
0x24000fd0 0x00000000
0x24000fcc 0x00000000
0x24000fc8 0x00000006
0x24000fc4 0x00000000
0x24000fc0 0x00000000
0x24000fbc 0x00000000
0x24000fb8 0x00000000
0x24000fb4 0x00000000
0x24000fb0 0x00000002
0x24000fac 0x08021239
0x24000fa8 0x08021239
0x24000fa4 0x00000000
0x24000fa0 0x00000000
0x24000f9c 0x2400ad70
0x24000f98 0x20001640
0x24000f94 0x00000000
0x24000f90 0x00000000
0x24000f8c 0x24001020
0x24000f88 0x00000000
0x24000f84 0x30035ff4
0x24000f80 0x00010000<-- Interrupt sp top
0x24000f7c 0x080202dd
0x24000f78 0x3003612c
0x24000f74 0x30031040
0x24000f70 0x300360c8
0x24000f6c 0x00000003
0x24000f68 0x00000003
0x24000f64 0x08020955
0x24000f60 0x00000000
0x24000f5c 0x0802140f
0x24000f58 0x38006f60
0x24000f54 0x00000309
0x24000f50 0x24000f84
0x24000f4c 0x00000000
0x24000f48 0x00000000

0x24000f44 0x00000000
0x24000f40 0x00000000
0x24000f3c 0x00000000
0x24000f38 0x40000000
0x24000f34 0x08020d3f
0x24000f30 0x00000000
0x24000f2c 0x08021017
0x24000f28 0x0819c2c7
0x24000f24 0x2400618c
0x24000f20 0x24000612
0x24000f1c 0x01000000
0x24000f18 0x30035ff4
0x24000f14 0x00000003
0x24000f10 0x40000000<-- Interrupt sp
0x24000f0c 0x00000020
0x24000f08 0x00000003
0x24000f04 0x0000003b
0x24000f00 0x000001c8
0x2400efc 0x080291c1
0x2400ef8 0x000000ad
0x2400ef4 0x24000f10
0x2400ef0 0x081849cb
0x2400eec 0x24000f84
0x2400ee8 0x00000251
0x2400ee4 0x081732ff
0x2400ee0 0x24000010
0x2400edc 0x08020e09
0x2400ed8 0x24000c54
0x2400ed4 0x00000000
0x2400ed0 0x300360c8
0x2400ecc 0x000001c8
0x2400ec8 0x000004a3
0x2400ec4 0x24000f10
0x2400ec0 0x24000f84
0x2400ebc 0x300352f0
0x2400eb8 0x24000000
0x2400eb4 0x00000000
0x2400eb0 0x00000000
0x2400eac 0x00000000
0x2400ea8 0x00000000
0x2400ea4 0x00000000
0x2400ea0 0x00000000
0x2400e9c 0x00000000
0x2400e98 0x00000000
0x2400e94 0x00000000
0x2400e90 0x00000000
0x2400e8c 0x00000000
0x2400e88 0x00003033
0x2400e84 0x37636531
0x2400e80 0x38783020
0x2400e7c 0x000002ff
0x2400e78 0x24000ec0

0x24000e74 0x24000e80
0x24000e70 0x2000944c
0x24000e6c 0x00000020
0x24000e68 0x00000002
0x24000e64 0x0000003d
0x24000e60 0x00000e4c
0x24000e5c 0x00001758
0x24000e58 0x000000ef
0x24000e54 0x000002ff
0x24000e50 0x08185ac9
0x24000e4c 0x081858c9
0x24000e48 0x08029005
0x24000e44 0x24000e50
0x24000e40 0x00000000
0x24000e3c 0x0802110d
0x24000e38 0x24000e50
0x24000e34 0x24000e50
0x24000e30 0x00000000
0x24000e2c 0x080210f1
0x24000e28 0x2000944c
0x24000e24 0x0000004f
0x24000e20 0x0802ce2d
0x24000e1c 0x081a2504
0x24000e18 0x080211b1
0x24000e14 0x081858c9
0x24000e10 0x00000000
0x24000e0c 0x080211ad
0x24000e08 0x24000e50
0x24000e04 0x081858c9
0x24000e00 0x24000e50
0x24000dfc 0x0802b9dd
0x24000df8 0x00000000
0x24000df4 0x300360c8
0x24000df0 0x00000000
0x24000dec 0x00001758
0x24000de8 0x24000e80
0x24000de4 0x000000ef
0x24000de0 0x00000020
0x24000ddc 0x24000e34
0x24000dd8 0x63373330
0x24000dd4 0x080389e1
0x24000dd0 0x00000078
0x24000dcc 0x00000000
0x24000dc8 0x00000000
0x24000dc4 0x00000000
0x24000dc0 0x33363620
0x24000dbc 0x00000007
0x24000db8 0x00000010
0x24000db4 0x0802c1ff
0x24000db0 0x24000df0
0x24000dac 0x30000030
0x24000da8 0x081858fe

0x24000da4 0x00000001
0x24000da0 0x00000003
0x24000d9c 0x0802ba15
0x24000d98 0x0000004f
0x24000d94 0x24000e18
0x24000d90 0x080211b1
0x24000d8c 0x080211c1
0x24000d88 0x0000000a
0x24000d84 0x24000e18
0x24000d80 0x080211b1
0x24000d7c 0x24000e18
0x24000d78 0x0000000a
0x24000d74 0x00000000
0x24000d70 0x00000002
0x24000d6c 0x0802c23d
0x24000d68 0x24000d70
0x24000d64 0x080389e1
0x24000d60 0x00000064
0x24000d5c 0x00000000
0x24000d58 0x00000000
0x24000d54 0x00000002
0x24000d50 0x24000dc0
0x24000d4c 0x00000000
0x24000d48 0x0000000a
0x24000d44 0xdeadbeef
0x24000d40 0xdeadbeef
0x24000d3c 0xdeadbeef
0x24000d38 0xdeadbeef
0x24000d34 0xdeadbeef
0x24000d30 0xdeadbeef
0x24000d2c 0xdeadbeef
0x24000d28 0xdeadbeef
0x24000d24 0xdeadbeef
0x24000d20 0xdeadbeef
0x24000d1c 0xdeadbeef
0x24000d18 0xdeadbeef
0x24000d14 0xdeadbeef
0x24000d10 0xdeadbeef
0x24000d0c 0xdeadbeef
0x24000d08 0xdeadbeef
0x24000d04 0xdeadbeef
0x24000d00 0xdeadbeef
0x24000cfc 0xdeadbeef
0x24000cf8 0xdeadbeef
0x24000cf4 0xdeadbeef
0x24000cf0 0xdeadbeef
0x24000cec 0xdeadbeef
0x24000ce8 0xdeadbeef
0x24000ce4 0xdeadbeef
0x24000ce0 0xdeadbeef
0x24000cdc 0xdeadbeef
0x24000cd8 0xdeadbeef

0x24000cd4 0xdeadbeef
0x24000cd0 0xdeadbeef
0x24000ccc 0xdeadbeef
0x24000cc8 0xdeadbeef
0x24000cc4 0xdeadbeef
0x24000cc0 0xdeadbeef
0x24000cbc 0xdeadbeef
0x24000cb8 0xdeadbeef
0x24000cb4 0xdeadbeef
0x24000cb0 0xdeadbeef
0x24000cac 0xdeadbeef
0x24000ca8 0xdeadbeef
0x24000ca4 0xdeadbeef
0x24000ca0 0xdeadbeef
0x24000c9c 0xdeadbeef
0x24000c98 0xdeadbeef
0x24000c94 0xdeadbeef
0x24000c90 0xdeadbeef
0x24000c8c 0xdeadbeef
0x24000c88 0xdeadbeef
0x24000c84 0xdeadbeef
0x24000c80 0xdeadbeef<-- Interrupt sp bottom
0x24000c7c 0x00000000
0x24000c78 0x00000000
0x24000c74 0x00000000
0x24000c70 0x00000000
0x24000c6c 0x00000000
0x24000c68 0x00000000
0x24000c64 0x00000000
0x24000c60 0x00000000
0x24000c5c 0x00000000
0x24000c58 0xffffffff
0x24000c54 0x00000000
0x24000c50 0x00000000
User sp memory region, stack pointer lies within stack
0x30036384 0x00000000
0x30036380 0x00000000
0x3003637c 0x00000000
0x30036378 0x300352f0
0x30036374 0x00000002
0x30036370 0x30036bcc
0x3003636c 0x080f3c9d
0x30036368 0x30036bd4
0x30036364 0xffffffff
0x30036360 0x00000000
0x3003635c 0x30036bcc
0x30036358 0x30006180
0x30036354 0x300371a0
0x30036350 0x00000000
0x3003634c 0x000000f0
0x30036348 0x380045fc
0x30036344 0x00000000

0x30036340 0x00000001
0x3003633c 0x0817c53b
0x30036338 0x00000003
0x30036334 0x0802fdd9
0x30036330 0x081ee708
0x3003632c 0x00000000
0x30036328 0x00000000
0x30036324 0x00000003
0x30036320 0x30036354
0x3003631c 0x00000000
0x30036318 0x00000000
0x30036314 0x00000000
0x30036310 0x00000000
0x3003630c 0x0802fdd1
0x30036308 0x30036320
0x30036304 0x300353e4
0x30036300 0x30035830
0x300362fc 0x0803006b
0x300362f8 0x08000000
0x300362f4 0x0802fe55
0x300362f0 0x00000000
0x300362ec 0x080217d3
0x300362e8 0x30037200
0x300362e4 0x30036310
0x300362e0 0x00000000
0x300362dc 0x080217bb
0x300362d8 0x00000000
0x300362d4 0x000000f0
0x300362d0 0x24000420
0x300362cc 0x00000000
0x300362c8 0x00000001
0x300362c4 0x08021869
0x300362c0 0x24001084
0x300362bc 0x00000000
0x300362b8 0x00000001
0x300362b4 0x08021869
0x300362b0 0x24001084
0x300362ac 0x080217bb
0x300362a8 0x30035840
0x300362a4 0x00000000
0x300362a0 0x300352f0
0x3003629c 0x00000000
0x30036298 0x00000000
0x30036294 0x00000000
0x30036290 0x00010101
0x3003628c 0x01010201
0x30036288 0x00000000
0x30036284 0x00040100
0x30036280 0x00010200
0x3003627c 0x00040f02
0x30036278 0x02020000
0x30036274 0x007ec47f

0x30036270 0x7ffee47f
0x3003626c 0x00000000
0x30036268 0x187b1c50
0x30036264 0xf716de91
0x30036260 0x00000000
0x3003625c 0x00000000
0x30036258 0x00006fbf
0x30036254 0x02a10000
0x30036250 0x30037540
0x3003624c 0x30036c00
0x30036248 0x00000000
0x30036244 0x00000000
0x30036240 0x30035840
0x3003623c 0x000000f0
0x30036238 0x300353e4
0x30036234 0x00000000
0x30036230 0x0000beff
0x3003622c 0x00000000
0x30036228 0x30036fd8
0x30036224 0x00000000
0x30036220 0x6bdd443c
0x3003621c 0x080217bb
0x30036218 0x300358f6
0x30036214 0x00000005
0x30036210 0x300371a4
0x3003620c 0x00000000
0x30036208 0x00000000
0x30036204 0x00000000
0x30036200 0x6bdffaa7
0x300361fc 0x00000000
0x300361f8 0x00000000
0x300361f4 0x00000000
0x300361f0 0x001e8480
0x300361ec 0x0000008f
0x300361e8 0x0000000a

0x300361e4 0x080f6381 Stack frame of MavlinkStream::update(), LR at function entry

0x300361e0 0x30036408 R11

0x300361dc 0x0819c7fe R10

0x300361d8 0x00000000 R9

0x300361d4 0x30036c0c R8

0x300361d0 0x30037540 R7

0x300361cc 0x30036fd8 R6

0x300361c8 0x00000000 R5

0x300361c4 0x300363f0 R4

0x300361c0 0x30037010 D8 float64

0x300361bc 0x30036ffc D8 float64

0x300361b8 0x9abcaf48

0x300361b4 0x30036220

0x300361b0 0x3d4bdc4f

0x300361ac 0x080f22cf Stack frame of MavlinkStreamCommandLong::send(), LR at function entry

0x300361a8 0x00000000
0x300361a4 0x6bdd443c
0x300361a0 0x00000000
0x3003619c 0x315ec72b
0x30036198 0x00000000
0x30036194 0x3a7e7d11
0x30036190 0xfffffec
0x3003618c 0x30037540
0x30036188 0x00000000
0x30036184 0x3e7ad7f2

0x30036180 0x9abcaf48
0x3003617c 0xbd6ef5d2
0x30036178 0x3d4bdc4f
0x30036174 0xbd15a221
0x30036170 0x3c8569d7

0x3003616c 0x3f468e35
0x30036168 0x7fc00000
0x30036164 0x81000000
0x30036160 0x080e90f0
0x3003615c 0x080f22cf

0x30036158 0x00000000
0x30036154 0x080e90f1
0x30036150 0x000f407e
0x3003614c 0x30036220
0x30036148 0x300374e0

0x30036144 0x080f362b Stack frame of get_free_tx_buf(), LR at function entry

0x30036140 0x00000000
0x3003613c 0x00000009
0x30036138 0xfffffec
0x30036134 0x30037540
0x30036130 0x000f407e
0x3003612c 0x00000000
0x30036128 0x300363f0

0x30036124 0x080f360d Stack frame of ioctl, R3

0x30036120 0x3003612c R2
0x3003611c 0x00000309 R1

0x30036118 0x080e7e2f LR at function entry

0x30036114 0x00000009 R6
0x30036110 0x00000000 R5
0x3003610c 0x300363f0 R4
0x30036108 0x3003612c R2
0x30036104 0x30035830 R1
0x30036100 0x30036120 R0

0x300360fc 0x08030207 Stack frame of file_vioctl, LR at function entry

0x300360f8 0x00000000
0x300360f4 0x00000309
0x300360f0 0x30036120
0x300360ec 0x00000000
0x300360e8 0x080f360d

function pointer to _ZN24MavlinkStreamCommandLong4sendEv

```

0x300360e4 0x0802fcab
0x300360e0 0x300353e4
0x300360dc 0x30035830
0x300360d8 0x00000000
0x300360d4 0x0803015f Stack frame of uart_ioctl
0x300360d0 0x3003612c
0x300360cc 0x00000309
0x300360c8 0x30035830 <-- User sp
0x300360c4 0x00000000 Reserved Register dump at crash
0x300360c0 0x80000011 FPSCR
0x300360bc 0xfffffec S15
0x300360b8 0x3d4cccd S14
0x300360b4 0x42400000
0x300360b0 0x3a5936dd
0x300360ac 0x41f00000
0x300360a8 0x00000000
0x300360a4 0x00000000
0x300360a0 0x00000000
0x3003609c 0x3e7ad7f2
0x30036098 0x9abcaf48
0x30036094 0xbd6ef5d2
0x30036090 0x3d4bdc4f
0x3003608c 0xbd15a221
0x30036088 0x3c8569d7
0x30036084 0x3f468e35 S1
0x30036080 0x7fc00000 S0
0x3003607c 0x21000000 xPSR
0x30036078 0x0802e5c8 PC Where the exception occurred
0x30036074 0x0803015f LR Return address of call
0x30036070 0x00000000 R12
0x3003606c 0x417028f5 R3
0x30036068 0x3003612c R2
0x30036064 0x00000309 R1
0x30036060 0x30035830 R0
0x3003605c 0x00000000
0x30036058 0x00000000
0x30036054 0x00000000
0x30036050 0x00000000
0x3003604c 0x00000000
0x30036048 0x00000000
0x30036044 0x00000000
0x30036040 0x00000000
0x3003603c 0x00000000
0x30036038 0x00000000
0x30036034 0x00000000
0x30036030 0x00000000
0x3003602c 0x00000000
0x30036028 0x30036bb9
0x30036024 0x30037010
0x30036020 0xbf800000
0x3003601c 0xfffffe9
0x30036018 0x00000000

```

0x30036014 0x0819c2c7
0x30036010 0x2400618c
0x3003600c 0x2400612
0x30036008 0x38006f60
0x30036004 0x00000309
0x30036000 0x3003612c
0x30035ffc 0x30031040
0x30035ff8 0x000000f0
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[hardfault_log] -- 2025-12-02-15:01:45 END Fault Log --