Log

Nucleo\_M> ram

The command: ram [8], is not recognized

Nucleo\_M> ra

The command: ra[8], is not recognized

Nucleo\_M> RAM READ ALL

FOC config support on STM32-NUCLEO-F302R8 development board

Ver. 0.2 - Build No. 176

Nucleo\_M> RAM READ ID

Found Register name: ID & index: 28

Data read:0x00000000 at Addr.: 0x04e4

Nucleo\_M> RAM READ ALL

Data read:0x00000000 at Addr.: 0x00e0 = GATE\_DRIVER\_FAULT\_STATUS

Data read:0x00000000 at Addr.: 0x00e2 = CONTROLLER\_FAULT\_STATUS

Data read:0x00000b00 at Addr.: 0x00e4 = ALGO\_STATUS

Data read:0x00000000 at Addr.: 0x00e6 = MTR\_PARAMS

Data read:0x0a000000 at Addr.: 0x00e8 = ALGO\_STATUS\_MPET

Data read:0x00000000 at Addr.: 0x00ea = DEV\_CTRL DEV\_CTRL

Data read:0x00000000 at Addr.: 0x00ec = ALGO\_CTRL1

Data read:0x00000000 at Addr.: 0x00ee = ALGO\_CTRL2

Data read:0x000c0701 at Addr.: 0x00f0 = CURRENT\_PI

Data read:0x00000000 at Addr.: 0x00f2 = SPEED\_PI

Data read:0x00000000 at Addr.: 0x0210 = ALGORITHM\_STATE

Data read:0x7fffffff at Addr.: 0x0216 = FG\_SPEED\_FDBK

Data read:0x00000000 at Addr.: 0x0410 = BUS\_CURRENT

Data read:0x00000000 at Addr.: 0x043e = PHASE\_CURRENT\_A

Data read:0x00000000 at Addr.: 0x0440 = PHASE\_CURRENT\_B

Data read:0x00000000 at Addr.: 0x0442 = PHASE\_CURRENT\_C

Data read:0x00010003 at Addr.: 0x0466 = CSA\_GAIN\_FEEDBACK

Data read:0x00000002 at Addr.: 0x0476 = VOLTAGE\_GAIN\_FEEDBACK

Data read:0x0123a000 at Addr.: 0x0478 = VM\_VOLTAGE

Data read:0x00000000 at Addr.: 0x047e = PHASE\_VOLTAGE\_VA

Data read:0x00000000 at Addr.: 0x0480 = PHASE\_VOLTAGE\_VB

Data read:0x00000000 at Addr.: 0x0482 = PHASE\_VOLTAGE\_VC

Data read:0x00000000 at Addr.: 0x04ba = SIN\_COMMUTATION\_ANGLE

Data read:0x00000000 at Addr.: 0x04bc = COS\_COMMUTATION\_ANGLE

Data read:0x00000000 at Addr.: 0x04d4 = IALPHA

Data read:0x00000000 at Addr.: 0x04d6 = IBETA

Data read:0x00000000 at Addr.: 0x04d8 = VALPHA

Data read:0x00000000 at Addr.: 0x04da = VBETA

Data read:0x00000000 at Addr.: 0x04e4 = ID

Data read:0x00000000 at Addr.: 0x04e6 = IQ

Data read:0x00000000 at Addr.: 0x04e8 = VD

Data read:0x00000000 at Addr.: 0x04ea = VQ

Data read:0x00000000 at Addr.: 0x0524 = IQ\_REF\_ROTOR\_ALIGN

Data read:0x00000000 at Addr.: 0x053a = SPEED\_REF\_OPEN\_LOOP

Data read:0x00000000 at Addr.: 0x0548 = IQ\_REF\_OPEN\_LOOP

Data read:0x00000000 at Addr.: 0x05cc = SPEED\_REF\_CLOSED\_LOOP

Data read:0x00000000 at Addr.: 0x05fc = ID\_REF\_CLOSED\_LOOP

Data read:0x00000000 at Addr.: 0x05fe = IQ\_REF\_CLOSED\_LOOP

Data read:0x00000000 at Addr.: 0x067a = ISD\_STATE

Data read:0x00000000 at Addr.: 0x0684 = ISD\_SPEED

Data read:0x00000000 at Addr.: 0x06b8 = IPD\_STATE

Data read:0x00000000 at Addr.: 0x06fc = IPD\_ANGLE

Data read:0x00000000 at Addr.: 0x0742 = ED

Data read:0x00000000 at Addr.: 0x0744 = EQ

Data read:0x00000000 at Addr.: 0x0752 = SPEED\_FDBK

Data read:0x00000000 at Addr.: 0x0756 = THETA\_EST

Done!

Nucleo\_M> RAM READ ALL

Data read:0x00000000 at Addr.: 0x00e0 = GATE\_DRIVER\_FAULT\_STATUS

Data read:0x82000000 at Addr.: 0x00e2 = CONTROLLER\_FAULT\_STATUS

Data read:0x0000bd80 at Addr.: 0x00e4 = ALGO\_STATUS

Data read:0x00000000 at Addr.: 0x00e6 = MTR\_PARAMS

Data read:0x0a000000 at Addr.: 0x00e8 = ALGO\_STATUS\_MPET

Data read:0x00000000 at Addr.: 0x00ea = DEV\_CTRL DEV\_CTRL

Data read:0x00000000 at Addr.: 0x00ec = ALGO\_CTRL1

Data read:0x00000020 at Addr.: 0x00ee = ALGO\_CTRL2

Data read:0x000c0701 at Addr.: 0x00f0 = CURRENT\_PI

Data read:0x00000000 at Addr.: 0x00f2 = SPEED\_PI

Data read:0x00000018 at Addr.: 0x0210 = ALGORITHM\_STATE

Data read:0x7fffffff at Addr.: 0x0216 = FG\_SPEED\_FDBK

Data read:0x00000000 at Addr.: 0x0410 = BUS\_CURRENT

Data read:0xff980000 at Addr.: 0x043e = PHASE\_CURRENT\_A

Data read:0x00800000 at Addr.: 0x0440 = PHASE\_CURRENT\_B

Data read:0xffe80000 at Addr.: 0x0442 = PHASE\_CURRENT\_C

Data read:0x00010000 at Addr.: 0x0466 = CSA\_GAIN\_FEEDBACK

Data read:0x00000002 at Addr.: 0x0476 = VOLTAGE\_GAIN\_FEEDBACK

Data read:0x01228000 at Addr.: 0x0478 = VM\_VOLTAGE

Data read:0x00011520 at Addr.: 0x047e = PHASE\_VOLTAGE\_VA

Data read:0x00014c8d at Addr.: 0x0480 = PHASE\_VOLTAGE\_VB

Data read:0x00014c8d at Addr.: 0x0482 = PHASE\_VOLTAGE\_VC

Data read:0x08000000 at Addr.: 0x04ba = SIN\_COMMUTATION\_ANGLE

Data read:0x00000000 at Addr.: 0x04bc = COS\_COMMUTATION\_ANGLE

Data read:0xfce80000 at Addr.: 0x04d4 = IALPHA

Data read:0xffe8e7ee at Addr.: 0x04d6 = IBETA

Data read:0x00000000 at Addr.: 0x04d8 = VALPHA

Data read:0x00000000 at Addr.: 0x04da = VBETA

Data read:0xffe8e7ee at Addr.: 0x04e4 = ID

Data read:0x03180000 at Addr.: 0x04e6 = IQ

Data read:0x00000000 at Addr.: 0x04e8 = VD

Data read:0x00000000 at Addr.: 0x04ea = VQ

Data read:0x00000000 at Addr.: 0x0524 = IQ\_REF\_ROTOR\_ALIGN

Data read:0x00000000 at Addr.: 0x053a = SPEED\_REF\_OPEN\_LOOP

Data read:0x00000000 at Addr.: 0x0548 = IQ\_REF\_OPEN\_LOOP

Data read:0x00000000 at Addr.: 0x05cc = SPEED\_REF\_CLOSED\_LOOP

Data read:0x00000000 at Addr.: 0x05fc = ID\_REF\_CLOSED\_LOOP

Data read:0x00000000 at Addr.: 0x05fe = IQ\_REF\_CLOSED\_LOOP

Data read:0x00000005 at Addr.: 0x067a = ISD\_STATE

Data read:0x0552901d at Addr.: 0x0684 = ISD\_SPEED

Data read:0x0005000c at Addr.: 0x06b8 = IPD\_STATE

Data read:0x00000000 at Addr.: 0x06fc = IPD\_ANGLE

Data read:0x00000000 at Addr.: 0x0742 = ED

Data read:0x00000000 at Addr.: 0x0744 = EQ

Data read:0x00000000 at Addr.: 0x0752 = SPEED\_FDBK

Data read:0x00000000 at Addr.: 0x0756 = THETA\_EST

Done!

Nucleo\_M> FAULT CFS

NO Controller fault condition is detected

NO Bit is reserved

NO IPD frequency fault detected

NO IPD T1 fault detected

NO IPD T2 fault detected

NO Bus current limit fault detected

NO MPET IPD fault detected

NO MPET BEMF fault detected

NO Abnormal speed fault detected

NO Abnormal BEMF fault detected

NO Missing motor fault detected

NO Motor lock fault detected

NO Lock current limit fault detected

NO Hardware lock current limit fault detected

NO Motor undervoltage detected

NO Motor overvoltage detected

Speed loop saturation detected

NO Current loop saturation detected

Data read:0x00009900 at Addr.: 0x00e4

Nucleo\_M>