

Weekly Progress Report

Capstone Team 8 RISC-V CleanFlight/BetaFlight Port

Week #18

Date: 05/04 - 05/11

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Summary:

Bliss check ins:

- Monday

- **Done**
- **Doing**
 - Betaflight UART research
 - Betaflight UART file dependencies
 - Kendryte UART implementation

- Tuesday

- **Done**
 - Betaflight UART research
- **Doing**
 - Betaflight UART file dependencies
 - Kendryte UART implementation

- Wednesday

- **Done**
- **Doing**
 - Betaflight UART file dependencies
 - Kendryte UART implementation
 - Bring up UART on another test board

- Thursday

- **Done**
 -
- **Doing**
 - Betaflight UART file dependencies

- Kendryte UART implementation
 - Bring up UART on another test board
- Friday
 - Done
 - Bring up UART on another test board
 - Doing
 - Betaflight UART file dependencies
 - Kendryte UART implementation
 - Communicating between 2 boards using UART

Eric check ins:

- Monday
 - Done
 - Doing
 - Working on other classwork
- Tuesday
 - Done
 - drivers/flash.c
 - Commented unneeded functions for sake of compilation
 - drivers/bus_spi_impl.h
 - Added macro definition for Maixbit board
 - drivers/bus_spi.c
 - Modified argument of spiBusSetDivisor() to match prototype in header file (was giving a compiler error)
 - Doing
 - Attempting to build BF with added config storage updates - getting compiler errors
- Wednesday
 - Done
 - Target.h
 - Defined SPI1 macro using placeholder address
 - drivers/bus_spi.h
 - Added print statement to check return value from spiDeviceByInstance()
 - Added dummy function definition for spiInitDevice()
 - Source.mk
 - Added several source files to compiler path
 - drivers/io.c
 - Added 'MAIXBIT' option to several if statements
 - Doing
 - Compiler errors fixed, linker errors fixed, executable builds!
- Thursday
 - Done

- Created wiki documentation for BF files: source.mk, targets.mk, Maixbit.mk
 - <https://github.com/GaloisInc/betaflight/wiki>
- **Doing**
- Friday
 - **Done**
 - **Doing**
 - Working on other classwork

Niko check ins:

- Monday
 - **Done** Modification to linker file
 - **Doing** configuration and setup
- Tuesday
 - **Done** Modification to mcu.mk file and source.mk (adjustments)
 - **Doing** configuration and setup
- Wednesday
 - **Done** Setup Clion
 - **Doing** configuration and setup
- Thursday
 - **Done** Looked into unit testing frameworks
 - **Doing** configuration and setup
- Friday
 - **Done** Created Makefile for unit tests
 - **Doing** configuration and setup

Ruben check ins:

- Monday
 - **Done**
 - Did code sync with Eric, reviewed the flash process and concluded k210 flash.c will need implementation. Will need to bring up spi implementation since flash is done thru spi
 - **Doing**
- Tuesday
 - **Done**
 - Prep for midterm for another class
 - **Doing**
- Wednesday
 - **Done**
 - **Doing**
 - Continued with flash.c implementation
- Thursday

- **Done**
 - Code sync with Eric and Niko. Eric showed an issue with compiling spi.
- **Doing**
- Friday
 - **Done**
 - **Doing**
 - Worked on fixing issues with compiling spi. Still in working progress

Weekly Issues:

1. Ex
2. Ex2

Notes:

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