**C:\Program Files (x86)\Arduino\arduino-builder**

-dump-prefs

-logger=machine

-hardware C:\Program Files (x86)\Arduino\hardware

-hardware C:\Users\samsu\AppData\Local\Arduino15\packages

-hardware C:\Users\samsu\Documents\Arduino\hardware

-tools C:\Program Files (x86)\Arduino\tools-builder

-tools C:\Program Files (x86)\Arduino\hardware\tools\avr

-tools C:\Users\samsu\AppData\Local\Arduino15\packages

-built-in-libraries C:\Program Files (x86)\Arduino\libraries

-libraries C:\Users\samsu\Documents\Arduino\libraries

-fqbn=adafruit:samd:adafruit\_itsybitsy\_m4:cache=on,speed=120,opt=small,maxspi=24,maxqspi=50 -vid-pid=0X239A\_0X802B -ide-version=10809

-build-path C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011

-warnings=none

-build-cache C:\Users\samsu\AppData\Local\Temp\arduino\_cache\_643998

-prefs=build.warn\_data\_percentage=75 -prefs=runtime.tools.arm-none-eabi-gcc.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\arm-none-eabi-gcc\4.8.3-2014q1 -prefs=runtime.tools.arm-none-eabi-gcc-4.8.3-2014q1.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\arm-none-eabi-gcc\4.8.3-2014q1

-prefs=runtime.tools.CMSIS-Atmel.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS-Atmel\1.2.0 -prefs=runtime.tools.CMSIS-Atmel-1.2.0.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS-Atmel\1.2.0 -prefs=runtime.tools.CMSIS.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS\4.5.0 -prefs=runtime.tools.CMSIS-4.5.0.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS\4.5.0 -prefs=runtime.tools.openocd.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\openocd\0.9.0-arduino -prefs=runtime.tools.openocd-0.9.0-arduino.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\openocd\0.9.0-arduino -prefs=runtime.tools.bossac.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\bossac\1.8.0-48-gb176eee -prefs=runtime.tools.bossac-1.8.0-48-gb176eee.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\bossac\1.8.0-48-gb176eee

-verbose C:\Users\samsu\Documents\Arduino\ainsuForth-gen-exp-m4\ainsuForth-gen-exp-m4.ino

**C:\Program Files (x86)\Arduino\arduino-builde**r

-compile

-logger=machine

-hardware C:\Program Files (x86)\Arduino\hardware

-hardware C:\Users\samsu\AppData\Local\Arduino15\packages

-hardware C:\Users\samsu\Documents\Arduino\hardware

-tools C:\Program Files (x86)\Arduino\tools-builder

-tools C:\Program Files (x86)\Arduino\hardware\tools\avr

-tools C:\Users\samsu\AppData\Local\Arduino15\packages

-built-in-libraries C:\Program Files (x86)\Arduino\libraries

-libraries C:\Users\samsu\Documents\Arduino\libraries

-fqbn=adafruit:samd:adafruit\_itsybitsy\_m4:cache=on,speed=120,opt=small,maxspi=24,maxqspi=50 -vid-pid=0X239A\_0X802B -ide-version=10809

-build-path C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011

-warnings=none

-build-cache C:\Users\samsu\AppData\Local\Temp\arduino\_cache\_643998 -prefs=build.warn\_data\_percentage=75 -prefs=runtime.tools.arm-none-eabi-gcc.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\arm-none-eabi-gcc\4.8.3-2014q1 -prefs=runtime.tools.arm-none-eabi-gcc-4.8.3-2014q1.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\arm-none-eabi-gcc\4.8.3-2014q1

-prefs=runtime.tools.CMSIS-Atmel.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS-Atmel\1.2.0 -prefs=runtime.tools.CMSIS-Atmel-1.2.0.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS-Atmel\1.2.0 -prefs=runtime.tools.CMSIS.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS\4.5.0 -prefs=runtime.tools.CMSIS-4.5.0.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\CMSIS\4.5.0 -prefs=runtime.tools.openocd.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\openocd\0.9.0-arduino -prefs=runtime.tools.openocd-0.9.0-arduino.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\openocd\0.9.0-arduino -prefs=runtime.tools.bossac.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\bossac\1.8.0-48-gb176eee -prefs=runtime.tools.bossac-1.8.0-48-gb176eee.path=C:\Users\samsu\AppData\Local\Arduino15\packages\arduino\tools\bossac\1.8.0-48-gb176eee

-verbose C:\Users\samsu\Documents\Arduino\ainsuForth-gen-exp-m4\ainsuForth-gen-exp-m4.ino

Using board 'adafruit\_itsybitsy\_m4' from platform in folder: C:\Users\samsu\AppData\Local\Arduino15\packages\adafruit\hardware\samd\1.4.1

Using core 'arduino' from platform in folder: C:\Users\samsu\AppData\Local\Arduino15\packages\adafruit\hardware\samd\1.4.1

Detecting libraries used...

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-g++" -mcpu=cortex-m4 -mthumb -c -g -Os -w -std=gnu++11 -ffunction-sections -fdata-sections -fno-threadsafe-statics -nostdlib --param max-inline-insns-single=500 -fno-rtti -fno-exceptions "-D\_\_SKETCH\_NAME\_\_=\"\"\"ainsuForth-gen-exp-m4.ino\"\"\"" -w -x c++ -E -CC -DF\_CPU=120000000L -DARDUINO=10809 -DARDUINO\_ITSYBITSY\_M4 -DARDUINO\_ARCH\_SAMD -D\_\_SAMD51G19A\_\_ -DADAFRUIT\_ITSYBITSY\_M4\_EXPRESS -D\_\_SAMD51\_\_ -DUSB\_VID=0x239A -DUSB\_PID=0x802B -DUSBCON "-DUSB\_MANUFACTURER=\"Adafruit LLC\"" "-DUSB\_PRODUCT=\"Adafruit ItsyBitsy M4\"" -D\_\_FPU\_PRESENT -DARM\_MATH\_CM4 -DCRYSTALLESS -mfloat-abi=hard -mfpu=fpv4-sp-d16 -DENABLE\_CACHE -Os -DMAX\_SPI=24000000 -DVARIANT\_QSPI\_BAUD\_DEFAULT=50000000 "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS\\4.5.0/CMSIS/Include/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS-Atmel\\1.2.0/CMSIS/Device/ATMEL/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\cores\\arduino" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForth-gen-exp-m4.ino.cpp" -o nul

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\ainsuForthsketch.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\flashDict.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\accept.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\allot.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\begin\_while\_repeat.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\cblink.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\char.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\colon\_semi.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\constant.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\dict\_comments\_only.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\do\_loop.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\dump.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\help.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\iasmd.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\if\_else\_then.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\max\_min.cpp

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-g++" -mcpu=cortex-m4 -mthumb -c -g -Os -w -std=gnu++11 -ffunction-sections -fdata-sections -fno-threadsafe-statics -nostdlib --param max-inline-insns-single=500 -fno-rtti -fno-exceptions "-D\_\_SKETCH\_NAME\_\_=\"\"\"ainsuForth-gen-exp-m4.ino\"\"\"" -w -x c++ -E -CC -DF\_CPU=120000000L -DARDUINO=10809 -DARDUINO\_ITSYBITSY\_M4 -DARDUINO\_ARCH\_SAMD -D\_\_SAMD51G19A\_\_ -DADAFRUIT\_ITSYBITSY\_M4\_EXPRESS -D\_\_SAMD51\_\_ -DUSB\_VID=0x239A -DUSB\_PID=0x802B -DUSBCON "-DUSB\_MANUFACTURER=\"Adafruit LLC\"" "-DUSB\_PRODUCT=\"Adafruit ItsyBitsy M4\"" -D\_\_FPU\_PRESENT -DARM\_MATH\_CM4 -DCRYSTALLESS -mfloat-abi=hard -mfpu=fpv4-sp-d16 -DENABLE\_CACHE -Os -DMAX\_SPI=24000000 -DVARIANT\_QSPI\_BAUD\_DEFAULT=50000000 "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS\\4.5.0/CMSIS/Include/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS-Atmel\\1.2.0/CMSIS/Device/ATMEL/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\cores\\arduino" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\new\_dict\_entries.cpp" -o nul

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\stack\_ops.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\store\_fetch.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\xttoname.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\dl\_interpreter.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\do\_sys.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\dot\_quote.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\download.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\drop.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\entry.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\eq.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\execute\_word.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\exit.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline\_m0\_exp.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline\_m4\_exp.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\gettoken.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\interpreter.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\is\_dl\_word\_number.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\is\_word\_number.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\jump.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\leave\_sys.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\literal.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\load.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\loop\_sys.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\over.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\plus\_loop\_sys.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\quit.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\remove.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\s\_quote.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\signon.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\stacks.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\strings.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\subroutine.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\target\_sensed.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\throw.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\type.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\variable.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\warm.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\zjump.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\dotstar.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\neo\_pixel.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\qspi\flashrom.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash\Adafruit\_SPIFlash.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash\Adafruit\_SPIFlash\_FatFs.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash\utility\ccsbcs.c

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash\utility\ff.c

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash\utility\flashdisk.cpp

Using cached library dependencies for file: C:\Users\samsu\AppData\Local\Arduino15\packages\adafruit\hardware\samd\1.4.1\libraries\SPI\SPI.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_QSPI\Adafruit\_QSPI.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_GD25Q.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_Generic.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_S25FL1.cpp

Using cached library dependencies for file: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_DotStar\Adafruit\_DotStar.cpp

Generating function prototypes...

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-g++" -mcpu=cortex-m4 -mthumb -c -g -Os -w -std=gnu++11 -ffunction-sections -fdata-sections -fno-threadsafe-statics -nostdlib --param max-inline-insns-single=500 -fno-rtti -fno-exceptions "-D\_\_SKETCH\_NAME\_\_=\"\"\"ainsuForth-gen-exp-m4.ino\"\"\"" -w -x c++ -E -CC -DF\_CPU=120000000L -DARDUINO=10809 -DARDUINO\_ITSYBITSY\_M4 -DARDUINO\_ARCH\_SAMD -D\_\_SAMD51G19A\_\_ -DADAFRUIT\_ITSYBITSY\_M4\_EXPRESS -D\_\_SAMD51\_\_ -DUSB\_VID=0x239A -DUSB\_PID=0x802B -DUSBCON "-DUSB\_MANUFACTURER=\"Adafruit LLC\"" "-DUSB\_PRODUCT=\"Adafruit ItsyBitsy M4\"" -D\_\_FPU\_PRESENT -DARM\_MATH\_CM4 -DCRYSTALLESS -mfloat-abi=hard -mfpu=fpv4-sp-d16 -DENABLE\_CACHE -Os -DMAX\_SPI=24000000 -DVARIANT\_QSPI\_BAUD\_DEFAULT=50000000 "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS\\4.5.0/CMSIS/Include/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS-Atmel\\1.2.0/CMSIS/Device/ATMEL/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\cores\\arduino" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_SPIFlash" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\libraries\\SPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_QSPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_DotStar" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForth-gen-exp-m4.ino.cpp" -o "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\preproc\\ctags\_target\_for\_gcc\_minus\_e.cpp"

"C:\\Program Files (x86)\\Arduino\\tools-builder\\ctags\\5.8-arduino11/ctags" -u --language-force=c++ -f - --c++-kinds=svpf --fields=KSTtzns --line-directives "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\preproc\\ctags\_target\_for\_gcc\_minus\_e.cpp"

Compiling sketch...

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-g++" -mcpu=cortex-m4 -mthumb -c -g -Os -w -std=gnu++11 -ffunction-sections -fdata-sections -fno-threadsafe-statics -nostdlib --param max-inline-insns-single=500 -fno-rtti -fno-exceptions -MMD "-D\_\_SKETCH\_NAME\_\_=\"\"\"ainsuForth-gen-exp-m4.ino\"\"\"" -DF\_CPU=120000000L -DARDUINO=10809 -DARDUINO\_ITSYBITSY\_M4 -DARDUINO\_ARCH\_SAMD -D\_\_SAMD51G19A\_\_ -DADAFRUIT\_ITSYBITSY\_M4\_EXPRESS -D\_\_SAMD51\_\_ -DUSB\_VID=0x239A -DUSB\_PID=0x802B -DUSBCON "-DUSB\_MANUFACTURER=\"Adafruit LLC\"" "-DUSB\_PRODUCT=\"Adafruit ItsyBitsy M4\"" -D\_\_FPU\_PRESENT -DARM\_MATH\_CM4 -DCRYSTALLESS -mfloat-abi=hard -mfpu=fpv4-sp-d16 -DENABLE\_CACHE -Os -DMAX\_SPI=24000000 -DVARIANT\_QSPI\_BAUD\_DEFAULT=50000000 "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS\\4.5.0/CMSIS/Include/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS-Atmel\\1.2.0/CMSIS/Device/ATMEL/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\cores\\arduino" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_SPIFlash" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\libraries\\SPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_QSPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_DotStar" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForth-gen-exp-m4.ino.cpp" -o "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForth-gen-exp-m4.ino.cpp.o"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\flashDict.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\ainsuForthsketch.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\dict\_comments\_only.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\begin\_while\_repeat.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\allot.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\do\_loop.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\cblink.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\constant.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\dump.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\iasmd.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\char.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\colon\_semi.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\jump.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\leave\_sys.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\max\_min.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\if\_else\_then.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\load.cpp.o

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-g++" -mcpu=cortex-m4 -mthumb -c -g -Os -w -std=gnu++11 -ffunction-sections -fdata-sections -fno-threadsafe-statics -nostdlib --param max-inline-insns-single=500 -fno-rtti -fno-exceptions -MMD "-D\_\_SKETCH\_NAME\_\_=\"\"\"ainsuForth-gen-exp-m4.ino\"\"\"" -DF\_CPU=120000000L -DARDUINO=10809 -DARDUINO\_ITSYBITSY\_M4 -DARDUINO\_ARCH\_SAMD -D\_\_SAMD51G19A\_\_ -DADAFRUIT\_ITSYBITSY\_M4\_EXPRESS -D\_\_SAMD51\_\_ -DUSB\_VID=0x239A -DUSB\_PID=0x802B -DUSBCON "-DUSB\_MANUFACTURER=\"Adafruit LLC\"" "-DUSB\_PRODUCT=\"Adafruit ItsyBitsy M4\"" -D\_\_FPU\_PRESENT -DARM\_MATH\_CM4 -DCRYSTALLESS -mfloat-abi=hard -mfpu=fpv4-sp-d16 -DENABLE\_CACHE -Os -DMAX\_SPI=24000000 -DVARIANT\_QSPI\_BAUD\_DEFAULT=50000000 "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS\\4.5.0/CMSIS/Include/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\CMSIS-Atmel\\1.2.0/CMSIS/Device/ATMEL/" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\cores\\arduino" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_SPIFlash" "-IC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\libraries\\SPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_QSPI" "-IC:\\Users\\samsu\\Documents\\Arduino\\libraries\\Adafruit\_DotStar" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\new\_dict\_entries.cpp" -o "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\new\_dict\_entries.cpp.o"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\literal.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\over.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\remove.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\stack\_ops.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\dl\_interpreter.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\s\_quote.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\quit.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\signon.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\store\_fetch.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\plus\_loop\_sys.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\subroutine.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\target\_sensed.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\do\_sys.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\xttoname.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\strings.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\throw.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\stacks.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\download.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\warm.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\zjump.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\variable.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\drop.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\neo\_pixel.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\qspi\flashrom.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\eq.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline\_m4\_exp.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\entry.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\periph\dotstar.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\is\_dl\_word\_number.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\gettoken.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\interpreter.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline\_m0\_exp.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\help.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\loop\_sys.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\dot\_quote.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\getline.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\execute\_word.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\dict\accept.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\is\_word\_number.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\type.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\sketch\src\kernel\exit.cpp.o

Compiling libraries...

Compiling library "Adafruit\_SPIFlash"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_SPIFlash\Adafruit\_SPIFlash\_FatFs.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_SPIFlash\Adafruit\_SPIFlash.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_SPIFlash\utility\ccsbcs.c.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_SPIFlash\utility\ff.c.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_SPIFlash\utility\flashdisk.cpp.o

Compiling library "SPI"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\SPI\SPI.cpp.o

Compiling library "Adafruit\_QSPI"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_QSPI\Adafruit\_QSPI.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_Generic.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_GD25Q.cpp.o

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_QSPI\Adafruit\_QSPI\_S25FL1.cpp.o

Compiling library "Adafruit\_DotStar"

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\libraries\Adafruit\_DotStar\Adafruit\_DotStar.cpp.o

Compiling core...

Using previously compiled file: C:\Users\samsu\AppData\Local\Temp\arduino\_build\_540011\core\variant.cpp.o

Using precompiled core: C:\Users\samsu\AppData\Local\Temp\arduino\_cache\_643998\core\core\_02f97b69ad83e20fc58e413391494cff.a

Linking everything together...

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-gcc" "-LC:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011" -Os -Wl,--gc-sections -save-temps "-TC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4/linker\_scripts/gcc/flash\_with\_bootloader.ld" "-Wl,-Map,C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/ainsuForth-gen-exp-m4.ino.map" --specs=nano.specs --specs=nosys.specs -mcpu=cortex-m4 -mthumb -Wl,--cref -Wl,--check-sections -Wl,--gc-sections -Wl,--unresolved-symbols=report-all -Wl,--warn-common -Wl,--warn-section-align -o "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/ainsuForth-gen-exp-m4.ino.elf" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForth-gen-exp-m4.ino.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\ainsuForthsketch.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\flashDict.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\accept.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\allot.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\begin\_while\_repeat.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\cblink.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\char.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\colon\_semi.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\constant.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\dict\_comments\_only.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\do\_loop.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\dump.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\help.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\iasmd.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\if\_else\_then.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\max\_min.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\new\_dict\_entries.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\stack\_ops.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\store\_fetch.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\dict\\xttoname.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\dl\_interpreter.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\do\_sys.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\dot\_quote.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\download.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\drop.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\entry.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\eq.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\execute\_word.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\exit.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\getline.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\getline\_m0\_exp.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\getline\_m4\_exp.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\gettoken.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\interpreter.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\is\_dl\_word\_number.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\is\_word\_number.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\jump.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\leave\_sys.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\literal.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\load.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\loop\_sys.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\over.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\plus\_loop\_sys.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\quit.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\remove.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\s\_quote.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\signon.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\stacks.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\strings.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\subroutine.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\target\_sensed.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\throw.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\type.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\variable.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\warm.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\kernel\\zjump.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\periph\\dotstar.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\periph\\neo\_pixel.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\sketch\\src\\periph\\qspi\\flashrom.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_SPIFlash\\Adafruit\_SPIFlash.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_SPIFlash\\Adafruit\_SPIFlash\_FatFs.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_SPIFlash\\utility\\ccsbcs.c.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_SPIFlash\\utility\\ff.c.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_SPIFlash\\utility\\flashdisk.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\SPI\\SPI.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_QSPI\\Adafruit\_QSPI.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_QSPI\\Adafruit\_QSPI\_GD25Q.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_QSPI\\Adafruit\_QSPI\_Generic.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_QSPI\\Adafruit\_QSPI\_S25FL1.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\libraries\\Adafruit\_DotStar\\Adafruit\_DotStar.cpp.o" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011\\core\\variant.cpp.o" -Wl,--start-group "-LC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" -larm\_cortexM4lf\_math -mfloat-abi=hard -mfpu=fpv4-sp-d16 "-LC:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\adafruit\\hardware\\samd\\1.4.1\\variants\\itsybitsy\_m4" -lm "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/..\\arduino\_cache\_643998\\core\\core\_02f97b69ad83e20fc58e413391494cff.a" -Wl,--end-group

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-objcopy" -O binary "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/ainsuForth-gen-exp-m4.ino.elf" "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/ainsuForth-gen-exp-m4.ino.bin"

Using library Adafruit\_SPIFlash at version 1.2.0 in folder: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_SPIFlash

Using library SPI at version 1.0 in folder: C:\Users\samsu\AppData\Local\Arduino15\packages\adafruit\hardware\samd\1.4.1\libraries\SPI

Using library Adafruit\_QSPI at version 2.0.0 in folder: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_QSPI

Using library Adafruit\_DotStar at version 1.1.1 in folder: C:\Users\samsu\Documents\Arduino\libraries\Adafruit\_DotStar

"C:\\Users\\samsu\\AppData\\Local\\Arduino15\\packages\\arduino\\tools\\arm-none-eabi-gcc\\4.8.3-2014q1/bin/arm-none-eabi-size"

-A "C:\\Users\\samsu\\AppData\\Local\\Temp\\arduino\_build\_540011/ainsuForth-gen-exp-m4.ino.elf"

Sketch uses 50728 bytes (9%) of program storage space. Maximum is 507904 bytes.

Device : ATSAMD51x19

Version : v1.1 [Arduino:XYZ] Apr 6 2019 10:10:42

Address : 0x0

Pages : 1024

Page Size : 512 bytes

Total Size : 512KB

Planes : 1

Lock Regions : 32

Locked : none

Security : false

BOD : false

BOR : true

Write 51096 bytes to flash (100 pages)

[ ] 0% (0/100 pages)

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Verify successful

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Went off tail. Bye from dotstar.

Hello from setup\_qspi m4 getline stuff. Found QSPI Flash.

NOV 2018: Mounted filesystem!

SPI\_FlashROM\_FILENAME: /forth/ascii\_xfer\_a001.txt

warm boot message - early bird. c: 8c8141d2866

SIWNA +trm4x +fm4x +crickitCPX c4e DEVPR - gen-exp-m4 04 Nov 2018

type 'warm' to reboot

Sun Nov 4 02:32:24 2018 testing-gg-

4737-a3c-00d- Trellis M4 Express sand birds[33m[44m[40m

[44m ainsuForth - 2018 - wa1tnr [40m words: 105

YAFFA - Yet Another Forth For Arduino,

Copyright (C) 2012 Stuart Wood

: O \ ( pin -- ) set pinMode as OUTPUT

1 swap pinMode ; : I \ ( pin -- ) set pinMode as INPUT

2 swap pinMode ; : H \ ( pin -- ) set pinLevel as HIGH

1 swap pinWrite ; : L \ ( pin -- ) set pinLevel as LOW

0 swap pinWrite ;

ok

: T \ ( pin -- ) set pinLevel as toggle

1 over pinRead - swap pinWrite ; : X \ ( n -- ) toggle led n times

13 O 0 do 13 T 500 delay loop ;

ok

: t \ ( -- ) show 9 \* 9 table

10 1 do cr 10 1 do i j \* dup 10 < if space then loop loop ;

ok

: y \ ( n -- ) check if n is zero

if ." non-zero" else ." zero" then ; : z \ ( n -- ) check if n is zero

if ." non-" then ." zero" ;

ok

: countRomWords ( -- n )

1

begin 1 + dup romEntry @ 0 =

until 1 - ;

ok

: romWords \ ( -- ) show all words defined in rom

countRomWords

begin dup while dup .name space 1 -

repeat drop ;

ok

: >link ( ramWordEntry -- lfa ) ; : >cfa ( ramWordEntry -- cfa ) 4 + @ ; : countRamWords ( -- n )

0 ramLast

begin dup

while swap 1 + swap >link @

repeat drop ;

ok

: ramWords \ ( -- ) show all words defined in ram

ramLast

begin dup

while dup >cfa .name space >link @

repeat drop ;

ok

: words \ ( -- ) show all words defined in ram and rom

cr ramWords romWords ;

ok

: seeRamWords \ ( -- ) see all words in ram

countRomWords countRamWords +

ramLast

begin dup

while swap dup . 1 - swap dup >cfa (see) >link @

repeat 2drop ;

ok

: seeRomWords \ ( -- ) see all words in rom

countRomWords

begin dup while dup . dup (see) 1 -

repeat drop ;

ok

: seeAll \ ( -- ) see all words

seeRamWords seeRomWords ;

ok

words

seeAll seeRomWords seeRamWords words ramWords countRamWords >cfa >link romWords countRomWords z y t X T L H I O download remove echo! load eflmkdir pinRead pinMode pinWrite delay .name ' ramLast romEntry words see (see) dump .s who help hex .( ( [char] xor \ word u. swap spaces space source rot r@ r> quit or negate min max loop here fill emit dup do decimal cr count repeat while until again begin then else if < j i strlen constant char c@ c, c! and allot accept abs @ >r ; : 2drop 2@ 2! / , +! ! 0= \* + - . warm drop = over variable ." s" evaluate plus\_loop-sys leave-sys loop-sys do-sys throw subroutine zjump jump type literal exit ok

seeAll

124

HighLevel Colon Word seeAll (ramCFA 20000728)

20000728 20000668 seeRamWords

2000072C 200006DC seeRomWords

20000730 00000001 exit

123

HighLevel Colon Word seeRomWords (ramCFA 200006DC)

200006DC 200004C0 countRomWords

200006E0 0000003D dup

200006E4 00000005 zjump(20000710)

200006EC 0000003D dup

200006F0 00000014 .

200006F4 0000003D dup

200006F8 0000005A (see)

200006FC 00000002 literal(00000001)

20000704 00000015 -

20000708 00000004 jump(200006E0)

20000710 00000012 drop

20000714 00000001 exit

122

HighLevel Colon Word seeRamWords (ramCFA 20000668)

20000668 200004C0 countRomWords

2000066C 200005A0 countRamWords

20000670 00000016 +

20000674 0000005E ramLast

20000678 0000003D dup

2000067C 00000005 zjump(200006BC)

20000684 0000004D swap

20000688 0000003D dup

2000068C 00000014 .

20000690 00000002 literal(00000001)

20000698 00000015 -

2000069C 0000004D swap

200006A0 0000003D dup

200006A4 20000574 >cfa

200006A8 0000005A (see)

200006AC 20000560 >link

200006B0 00000023 @

200006B4 00000004 jump(20000678)

200006BC 0000001F 2drop

200006C0 00000001 exit

121

HighLevel Colon Word words (ramCFA 20000640)

20000640 0000003A cr

20000644 200005F8 ramWords

20000648 20000518 romWords

2000064C 00000001 exit

120

HighLevel Colon Word ramWords (ramCFA 200005F8)

200005F8 0000005E ramLast

200005FC 0000003D dup

20000600 00000005 zjump(20000628)

20000608 0000003D dup

2000060C 20000574 >cfa

20000610 00000060 .name

20000614 0000004B space

20000618 20000560 >link

2000061C 00000023 @

20000620 00000004 jump(200005FC)

20000628 00000012 drop

2000062C 00000001 exit

119

HighLevel Colon Word countRamWords (ramCFA 200005A0)

200005A0 00000002 literal(00000000)

200005A8 0000005E ramLast

200005AC 0000003D dup

200005B0 00000005 zjump(200005DC)

200005B8 0000004D swap

200005BC 00000002 literal(00000001)

200005C4 00000016 +

200005C8 0000004D swap

200005CC 20000560 >link

200005D0 00000023 @

200005D4 00000004 jump(200005AC)

200005DC 00000012 drop

200005E0 00000001 exit

118

HighLevel Colon Word >cfa (ramCFA 20000574)

20000574 00000002 literal(00000004)

2000057C 00000016 +

20000580 00000023 @

20000584 00000001 exit

117

HighLevel Colon Word >link (ramCFA 20000560)

20000560 00000001 exit

116

HighLevel Colon Word romWords (ramCFA 20000518)

20000518 200004C0 countRomWords

2000051C 0000003D dup

20000520 00000005 zjump(20000548)

20000528 0000003D dup

2000052C 00000060 .name

20000530 0000004B space

20000534 00000002 literal(00000001)

2000053C 00000015 -

20000540 00000004 jump(2000051C)

20000548 00000012 drop

2000054C 00000001 exit

115

HighLevel Colon Word countRomWords (ramCFA 200004C0)

200004C0 00000002 literal(00000001)

200004C8 00000002 literal(00000001)

200004D0 00000016 +

200004D4 0000003D dup

200004D8 0000005D romEntry

200004DC 00000023 @

200004E0 00000002 literal(00000000)

200004E8 00000011 =

200004EC 00000005 zjump(200004C8)

200004F4 00000002 literal(00000001)

200004FC 00000015 -

20000500 00000001 exit

114

HighLevel Colon Word z (ramCFA 20000484)

20000484 00000005 zjump(20000498)

2000048C 0000000E ." non-"

20000498 0000000E ." zero"

200004A4 00000001 exit

113

HighLevel Colon Word y (ramCFA 20000448)

20000448 00000005 zjump(20000468)

20000450 0000000E ." non-zero"

20000460 00000004 jump(20000474)

20000468 0000000E ." zero"

20000474 00000001 exit

112

HighLevel Colon Word t (ramCFA 200003D4)

200003D4 00000002 literal(0000000A)

200003DC 00000002 literal(00000001)

200003E4 00000008 do-sys

200003E8 0000003A cr

200003EC 00000002 literal(0000000A)

200003F4 00000002 literal(00000001)

200003FC 00000008 do-sys

20000400 0000002E i

20000404 0000002F j

20000408 00000017 \*

2000040C 0000003D dup

20000410 00000002 literal(0000000A)

20000418 00000030 <

2000041C 00000005 zjump(20000428)

20000424 0000004B space

20000428 00000009 loop-sys(20000400)

20000430 00000009 loop-sys(200003E8)

20000438 00000001 exit

111

HighLevel Colon Word X (ramCFA 2000038C)

2000038C 00000002 literal(0000000D)

20000394 200002E0 O

20000398 00000002 literal(00000000)

200003A0 00000008 do-sys

200003A4 00000002 literal(0000000D)

200003AC 20000360 T

200003B0 00000002 literal(000001F4)

200003B8 00000061 delay

200003BC 00000009 loop-sys(200003A4)

200003C4 00000001 exit

110

HighLevel Colon Word T (ramCFA 20000360)

20000360 00000002 literal(00000001)

20000368 00000010 over

2000036C 00000064 pinRead

20000370 00000015 -

20000374 0000004D swap

20000378 00000062 pinWrite

2000037C 00000001 exit

109

HighLevel Colon Word L (ramCFA 20000340)

20000340 00000002 literal(00000000)

20000348 0000004D swap

2000034C 00000062 pinWrite

20000350 00000001 exit

108

HighLevel Colon Word H (ramCFA 20000320)

20000320 00000002 literal(00000001)

20000328 0000004D swap

2000032C 00000062 pinWrite

20000330 00000001 exit

107

HighLevel Colon Word I (ramCFA 20000300)

20000300 00000002 literal(00000002)

20000308 0000004D swap

2000030C 00000063 pinMode

20000310 00000001 exit

106

HighLevel Colon Word O (ramCFA 200002E0)

200002E0 00000002 literal(00000001)

200002E8 0000004D swap

200002EC 00000063 pinMode

200002F0 00000001 exit

105

LowLevel Primitive Word download (romEntry ecc4)

104

LowLevel Primitive Word remove (romEntry ecb8)

103

LowLevel Primitive Word echo! (romEntry ecac)

102

LowLevel Primitive Word load (romEntry eca0)

101

LowLevel Primitive Word eflmkdir (romEntry ec94)

100

LowLevel Primitive Word pinRead (romEntry ec88)

99

LowLevel Primitive Word pinMode (romEntry ec7c)

98

LowLevel Primitive Word pinWrite (romEntry ec70)

97

LowLevel Primitive Word delay (romEntry ec64)

96

LowLevel Primitive Word .name (romEntry ec58)

95

LowLevel Primitive Word ' (romEntry ec4c)

94

LowLevel Primitive Word ramLast (romEntry ec40)

93

LowLevel Primitive Word romEntry (romEntry ec34)

92

LowLevel Primitive Word words (romEntry ec28)

91

LowLevel Primitive Word see (romEntry ec1c)

90

LowLevel Primitive Word (see) (romEntry ec10)

89

LowLevel Primitive Word dump (romEntry ec04)

88

LowLevel Primitive Word .s (romEntry ebf8)

87

LowLevel Primitive Word who (romEntry ebec)

86

LowLevel Primitive Word help (romEntry ebe0)

85

LowLevel Primitive Word hex (romEntry ebd4)

84

LowLevel Primitive Word .( (romEntry ebc8)

83

LowLevel Primitive Word ( (romEntry ebbc)

82

LowLevel Primitive Word [char] (romEntry ebb0)

81

LowLevel Primitive Word xor (romEntry eba4)

80

LowLevel Primitive Word \ (romEntry eb98)

79

LowLevel Primitive Word word (romEntry eb8c)

78

LowLevel Primitive Word u. (romEntry eb80)

77

LowLevel Primitive Word swap (romEntry eb74)

76

LowLevel Primitive Word spaces (romEntry eb68)

75

LowLevel Primitive Word space (romEntry eb5c)

74

LowLevel Primitive Word source (romEntry eb50)

73

LowLevel Primitive Word rot (romEntry eb44)

72

LowLevel Primitive Word r@ (romEntry eb38)

71

LowLevel Primitive Word r> (romEntry eb2c)

70

LowLevel Primitive Word quit (romEntry eb20)

69

LowLevel Primitive Word or (romEntry eb14)

68

LowLevel Primitive Word negate (romEntry eb08)

67

LowLevel Primitive Word min (romEntry eafc)

66

LowLevel Primitive Word max (romEntry eaf0)

65

LowLevel Primitive Word loop (romEntry eae4)

64

LowLevel Primitive Word here (romEntry ead8)

63

LowLevel Primitive Word fill (romEntry eacc)

62

LowLevel Primitive Word emit (romEntry eac0)

61

LowLevel Primitive Word dup (romEntry eab4)

60

LowLevel Primitive Word do (romEntry eaa8)

59

LowLevel Primitive Word decimal (romEntry ea9c)

58

LowLevel Primitive Word cr (romEntry ea90)

57

LowLevel Primitive Word count (romEntry ea84)

56

LowLevel Primitive Word repeat (romEntry ea78)

55

LowLevel Primitive Word while (romEntry ea6c)

54

LowLevel Primitive Word until (romEntry ea60)

53

LowLevel Primitive Word again (romEntry ea54)

52

LowLevel Primitive Word begin (romEntry ea48)

51

LowLevel Primitive Word then (romEntry ea3c)

50

LowLevel Primitive Word else (romEntry ea30)

49

LowLevel Primitive Word if (romEntry ea24)

48

LowLevel Primitive Word < (romEntry ea18)

47

LowLevel Primitive Word j (romEntry ea0c)

46

LowLevel Primitive Word i (romEntry ea00)

45

LowLevel Primitive Word strlen (romEntry e9f4)

44

LowLevel Primitive Word constant (romEntry e9e8)

43

LowLevel Primitive Word char (romEntry e9dc)

42

LowLevel Primitive Word c@ (romEntry e9d0)

41

LowLevel Primitive Word c, (romEntry e9c4)

40

LowLevel Primitive Word c! (romEntry e9b8)

39

LowLevel Primitive Word and (romEntry e9ac)

38

LowLevel Primitive Word allot (romEntry e9a0)

37

LowLevel Primitive Word accept (romEntry e994)

36

LowLevel Primitive Word abs (romEntry e988)

35

LowLevel Primitive Word @ (romEntry e97c)

34

LowLevel Primitive Word >r (romEntry e970)

33

LowLevel Primitive Word ; (romEntry e964)

32

LowLevel Primitive Word : (romEntry e958)

31

LowLevel Primitive Word 2drop (romEntry e94c)

30

LowLevel Primitive Word 2@ (romEntry e940)

29

LowLevel Primitive Word 2! (romEntry e934)

28

LowLevel Primitive Word / (romEntry e928)

27

LowLevel Primitive Word , (romEntry e91c)

26

LowLevel Primitive Word +! (romEntry e910)

25

LowLevel Primitive Word ! (romEntry e904)

24

LowLevel Primitive Word 0= (romEntry e8f8)

23

LowLevel Primitive Word \* (romEntry e8ec)

22

LowLevel Primitive Word + (romEntry e8e0)

21

LowLevel Primitive Word - (romEntry e8d4)

20

LowLevel Primitive Word . (romEntry e8c8)

19

LowLevel Primitive Word warm (romEntry e8bc)

18

LowLevel Primitive Word drop (romEntry e8b0)

17

LowLevel Primitive Word = (romEntry e8a4)

16

LowLevel Primitive Word over (romEntry e898)

15

LowLevel Primitive Word variable (romEntry e88c)

14

LowLevel Primitive Word ." (romEntry e880)

13

LowLevel Primitive Word s" (romEntry e874)

12

LowLevel Primitive Word evaluate (romEntry e868)

11

LowLevel Primitive Word plus\_loop-sys (romEntry e85c)

10

LowLevel Primitive Word leave-sys (romEntry e850)

9

LowLevel Primitive Word loop-sys (romEntry e844)

8

LowLevel Primitive Word do-sys (romEntry e838)

7

LowLevel Primitive Word throw (romEntry e82c)

6

LowLevel Primitive Word subroutine (romEntry e820)

5

LowLevel Primitive Word zjump (romEntry e814)

4

LowLevel Primitive Word jump (romEntry e808)

3

LowLevel Primitive Word type (romEntry e7fc)

2

LowLevel Primitive Word literal (romEntry e7f0)

1

LowLevel Primitive Word exit (romEntry e7e4)

ok