



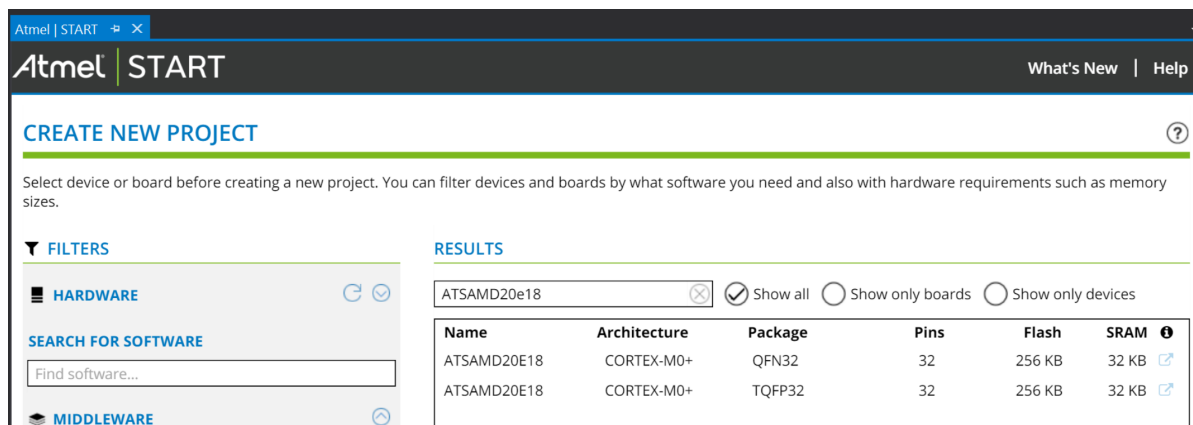
Configure JesFs for SAMD20

Summary

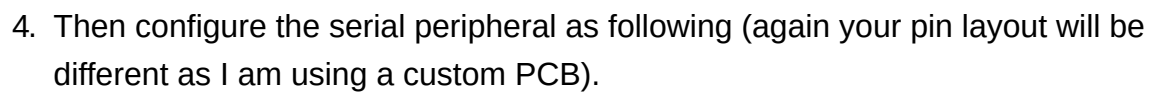
This document is meant to help users configure an Atmel Start project for use with the open source JesFs demo project.

Configure Atmel Start

1. Create a new Atmel Start project in Microchip Studio (I am using v7.0 at the time of this writing)
2. Select the SAMD20E18 as the processor, or select whatever processor you are using (you may need to edit some files if you are using a different processor).



3. Then configure the SPI peripheral as following (your pin layout will be different as I am using a custom PCB)



MY SOFTWARE COMPONENTS

Legend: Application (dark grey), Middleware (light grey), Driver (green), System driver (light green)

Buttons: Add software component, Show system drivers, Show hardware

Project Tree:

- MY PROJECT
 - SPL_0
 - SERIAL
 - DELAY
 - RTC_0
 - WDT_0
 - GCLK
 - SYSCtrl
 - PM

SERIAL

Universal Asynchronous receiver/transmitter (UART) communication in asynchronous mode using interrupts

GENERAL

- User guide
- Rename component
- Remove component

COMPONENT SETTINGS

Driver: HAL:Driver:USART_Asy
 Mode: UART
 Instance: SERCOM3

COMPONENT SIGNALS

RX: PA25
 TX: PA24

CLOCKS

Core: Generic clock generator 0 (8 MHz)
 Slow: Generic clock generator 3 (400 kHz)

HAL:DRIVER:USART ASYNC (UART) CONFIGURATION ON SERCOM3

BASIC CONFIGURATION

Receive buffer enable: ☒
 Transmitt buffer enable: ☒
 Frame parity: No parity
 Character Size: 8 bits
 Stop Bit: One stop bit
 Baud rate: 9600 dec v

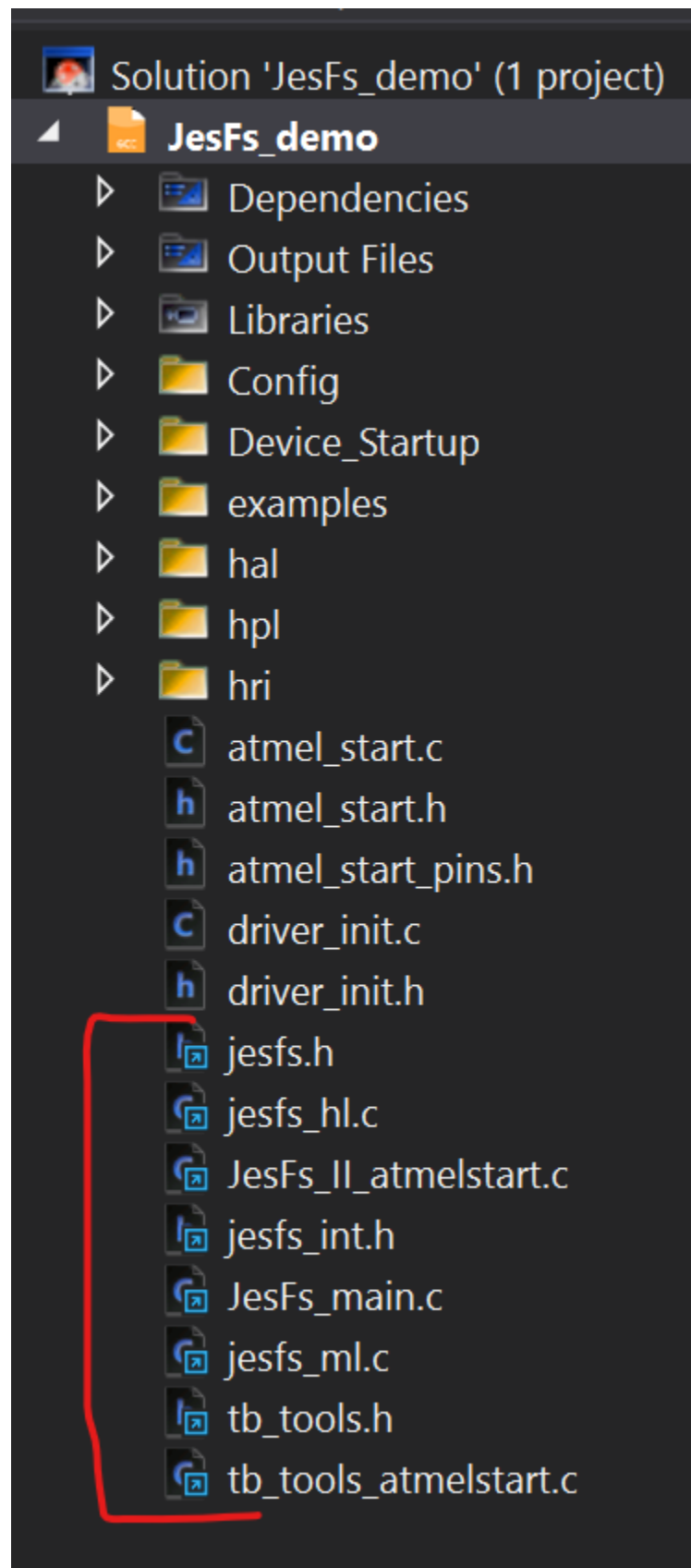
ADVANCED CONFIGURATION

Enable: ☒

- Click the **Generate Project** button to generate the HAL code for the project.

Adding JesFs to the Project

- Right click the project and select **Add Existing Items**
- Navigate to the JesFs files and add the following files to the project as links. You will need to add the JesFs directory to the list of search directories for the project to compile properly



3. Define `SAMD20` in the project settings