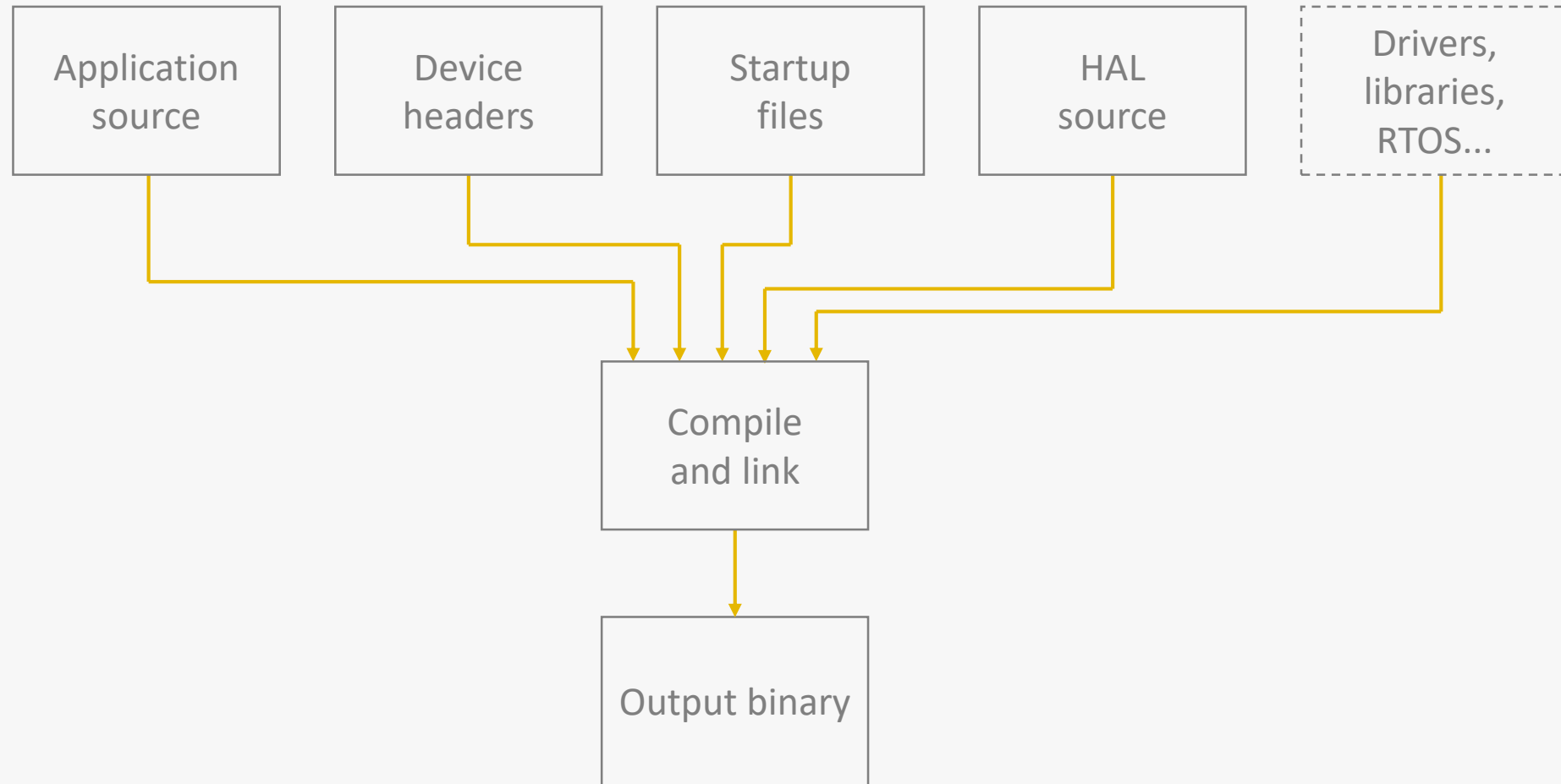




## EFM32 Series 0: Tools and IDEs

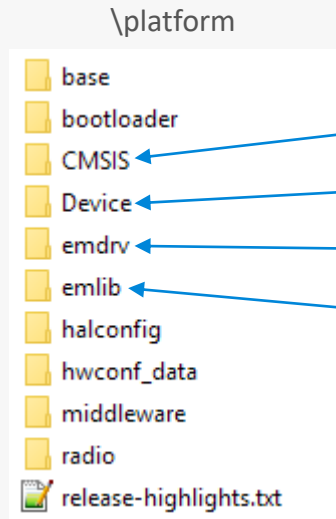


# Building Software



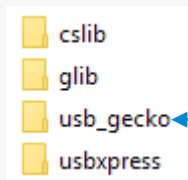
# SDK Contents

Kit-specific files: BSP, firmware, examples → \hardware\kit      \app\mcu\_example



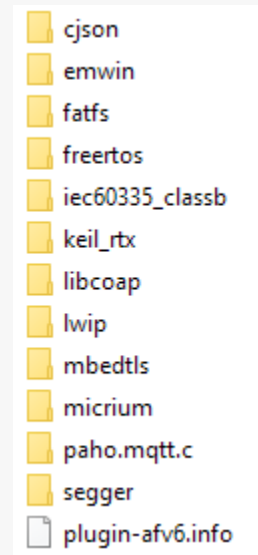
Generic Cortex header files  
Device specific header files  
Driver libraries provided by Silicon Labs  
EFM32 HAL

\platform\middleware

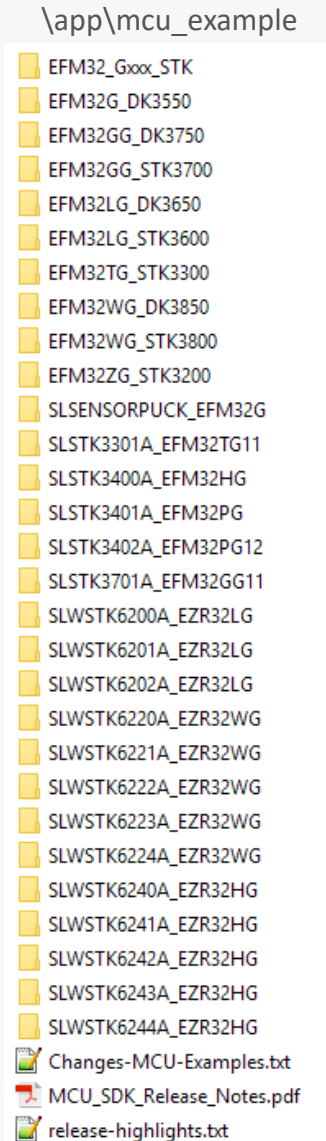
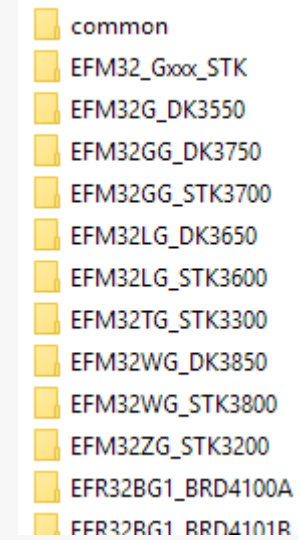


EFM32 USB Stack

\util\third\_party



Third party libraries. RTOS, emWin ...



# Chip Configuration – Startup Files

```
startup_efm32gg.c  
startup_efm32gg.s
```

- Defines the interrupt vector and reset handler.
- Contains default while(1) implementations of ISRs that are weakly linked
- Toolchain specific
  - Assembly version for all toolchains
  - C version available for IAR
- EFM32 family specific

```
system_efm32gg.c
```

- Contains system functions
- EFM32 family specific



# Chip Configuration – Linker

- Linker files define memory sizes (Flash/RAM) and placement
- Toolchain specific
- For GCC
  - Linker files provided under Device/EnergyMicro
  - Note: only max size for family defined
- IAR
  - Provides linker files with the default installation
- Keil
  - Auto generated by project settings
  - Can be manually edited
- Simplicity IDE
  - Auto generated