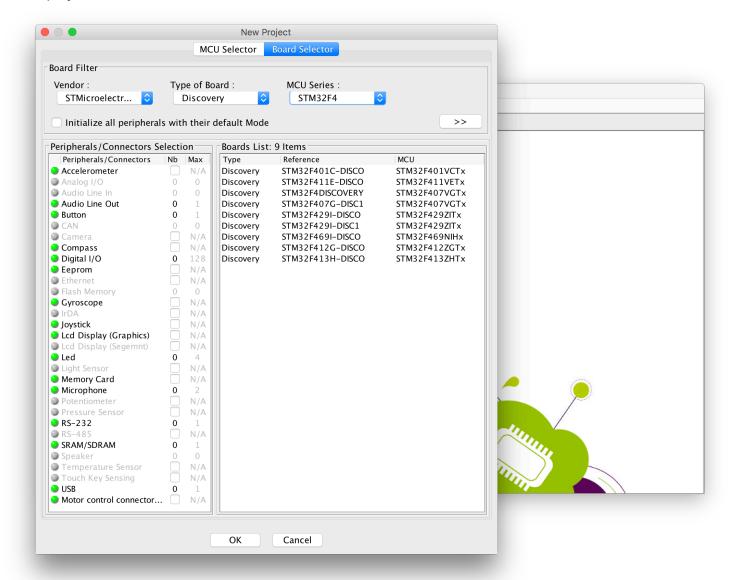
Initilize project with STM32CubeMX



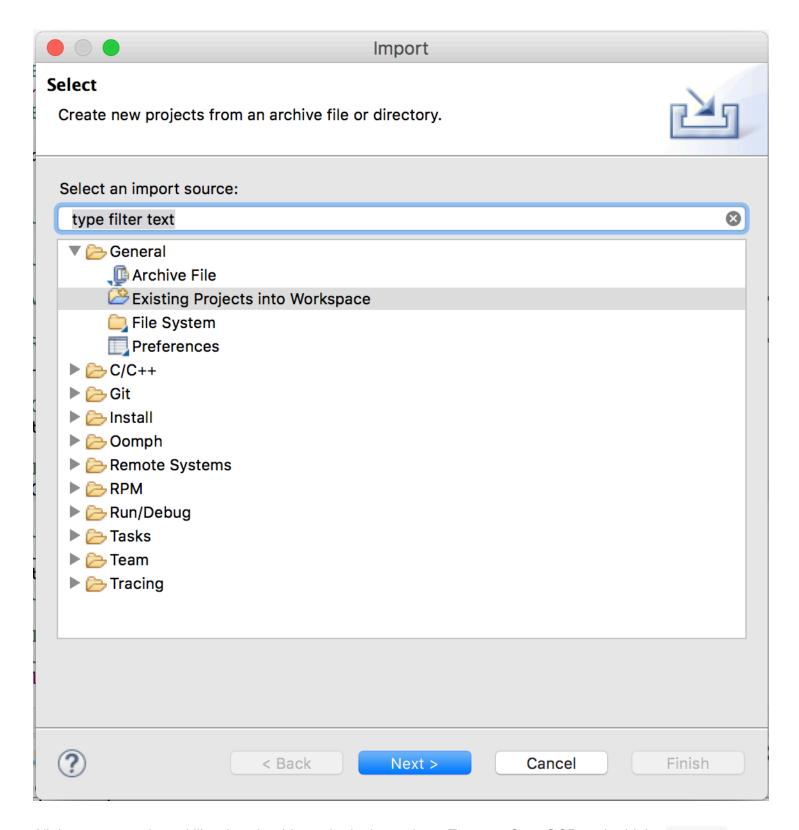
Select Discovery - STM32F4DISCOVERY - STM32F407VGTx

Under Settings -> Toolchain / IDE

Select SW4STM32 which is for Eclipse

Add any peripherals and name the pins then generate the code.

In Eclipse import the newly created project by File -> Import then select General -> Existing Projects into Workspace



All the source code and libraries should now be in the project. To setup OpenOCD and add the printf() function follow the steps below.

In the Project Properties -> C/C++ Build -> Setttings -> MCU GCC Linker -> Miscellaneous -> Linker flags
Add the following flags: -specs=nosys.specs -specs=nano.specs -specs=rdimon.specs -lc -lrdimon

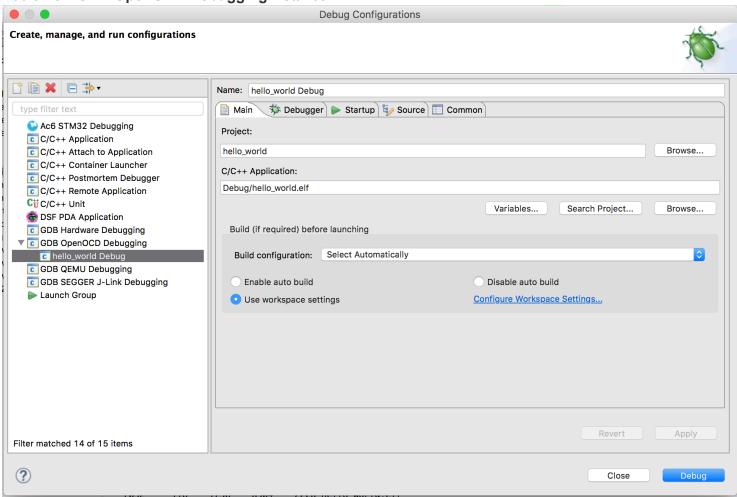
In the main.c file in the prototypes section add the following extern void initialise_monitor_handles(void);
Then in the main function after the variables declaration add a call to the

function initialise_monitor_handles();

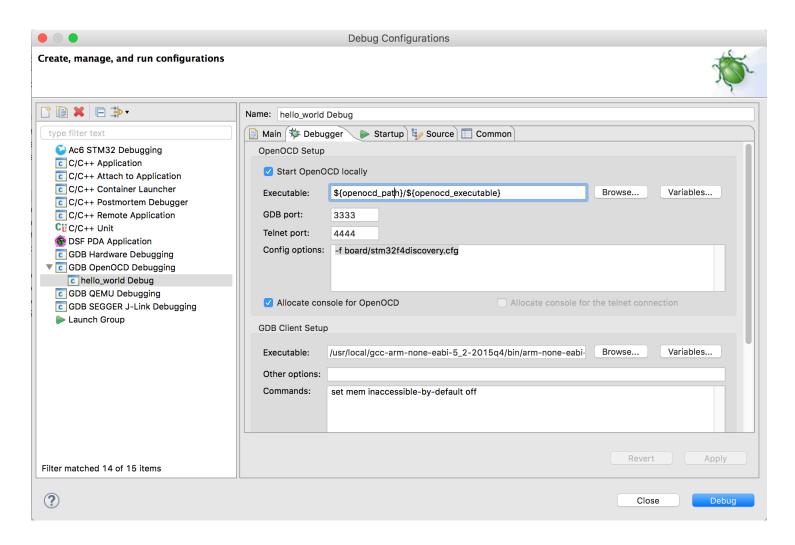
After this printf() will now display in the console.

To setup OpenOCD debugging select **Debug Configurations**.

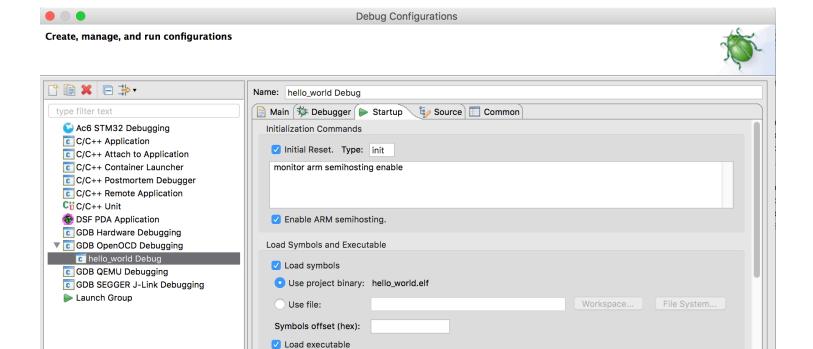
Add a new GDB OpenOCD Debugging instance



In the **Debugger tab -> OpenOCD Setup -> Config options**: add the following -f board/stm32f4discovery.cfg or whatever the configuration file is for the needed board. Add the GDB path if needed under **Debugger tab -> GDB Client Setup -> Executable**: should look something like this /usr/local/gcc-arm-none-eabi-5_2-2015q4/bin/arm-none-eabi-gdb



Under the Startup tab -> Initialization Commands -> Enable ARM semihosting is checked



Workspace... File System...

Revert

Close

Apply

Debug

Use project binary: hello_world.elf

Use file:

Executable offset (hex):

The debug session can now be run and printf() output to the console.

Filter matched 14 of 15 items

?