XF Ports

Introduction

A XF (execution framework) consists of a view classes which some need to be adjusted when used on another platform.

Following you will find a list of classes which may be adjusted/reimplemented when changing to another platform/environment:

- `XF`
- `TimeoutManager`
- `Dispatcher`
- `EventQueue`
- `Mutex`

These classes are also named `port classes` because they can be ported to another platform. All port classes can be found in the *port* folder whereas every port is located in a separate folder.

Every port may pick some default implementation classes from the *common* folder also located in the *port* folder.

Common Port Classes

There are already some common port class implementations present. You can find them in the `common` folder and may suit your needs for a first version of your XF. These default port classes are platform independent and can be used by any port implementation.

> Note
>
> Be carefull when changing the code of a class in the *common* folder. It may affect other ports and cause them to no more work correctly!

Port Folder Structure

In case you want to add support for another platform to the XF, you need to add a subfolder to the *port* folder and put the port class files in there. Best is, to take an already present port which is most similar to what you need, rename it and start adaption of these files.

You may also mix-up your port with classes from the *common* folder and your custom folder (or even reference classes from other ports).

Available Ports

Here is a list of currently available ports:

Port Name	OS	Platform	Folder Name	Description

Port Name	OS	Platform	Folder Name	Description
PORT_IDF_QT	Qt (IDF)	Qt library based implementation	idf-qt	XF support for macOS, Linux and Windows
PORT_IDF_STM32	Bare-Metal (IDF)	STM32CubeIDE/STM32CubeMX based port	idf-stm32	XF for ARM Cortex based microcontrollers from STMicroelectronics