## uC/OS-II Example Project Using for MG32F02A

*2021.08.25*

## Introduction

在笙泉科技產品 MG32-Series，應用 Micrium uCOS-II。

Example LED Project Path :

MG32x02z_uCOSII\MG32x02z_uCOS-II\Boards\MG32F02A_EvBoard\uCOS-II_Example_

LED\KeilMDK\OS.uvguix

1. LED1 Flashing frequency 0.5Hz.

2. LED2 Flashing frequency 1Hz.

3. LED3 Flashing frequency 5Hz.

Memory data related information by using Keil MDK Ver. 5.27.10 compiler:

Code 9508 Bytes

RO-data 780 Bytes

RW-data 112 Bytes

ZI-data 4624 Bytes

Total Flash Code 10400Bytes

Total SRAM 4736 Bytes

## Apply To

MG32F02A132/072

## Method

1. Create new Project.

2. Keil MDK manage run time environment

   Select CMSIS - CORE,

   Select MG32x02z_Device - Startup

   Select MG32x02z_Driver – All

   Select MG32x02z_ChipInit_Wizard – CSC / GPIO

3. Add group and file, reference example project.

Add uC/CPU group and file.

Add uC/LIB group and file.

Add uC/OS-II group and file.

Add BSP group and file.

Add APP group and file.

4. Modify File startup_MG32x02z.s on MG32x02z_Device group.

Add IMPORT   OS_CPU_ PendSVHandler

Add IMPORT   OS_CPU_SysTickHandler

Modify PendSV_Handler to OS_CPU_PendSVHandler

Modify SysTick_Handler to OS_CPU_SysTickHandler

## Appendix

**1.** Sample project : SampleProject_uCOS-II.rar

## Revision History

| **Revision V0.11   (2021_0825)** | **Chapter** |
|---|---|
| 1  Rename sample code project to "SampleProject_uCOS-II". | Appendix |
| **Revision V0.10   (2019_1008)** | **Chapter** |
| 1  Initial version | |