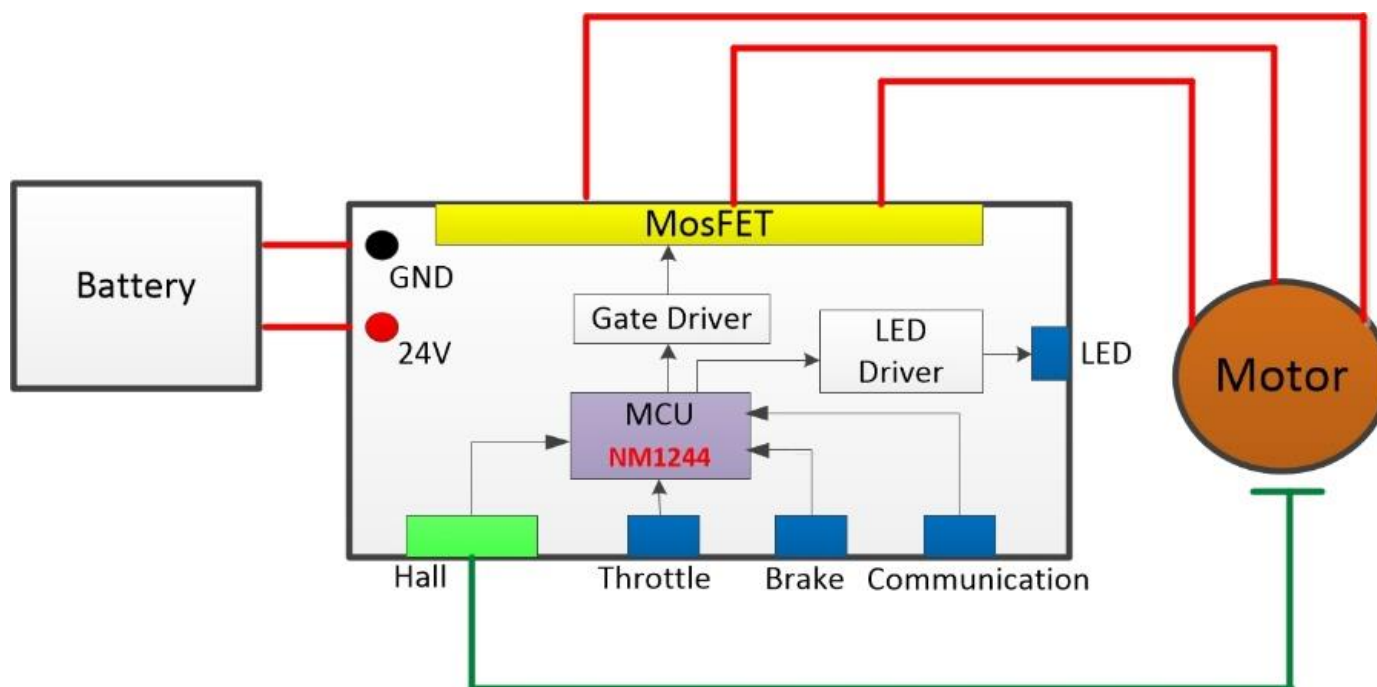


# NM1240滑板车驱动器架构软件说明

CA20/MY

2021/11/30

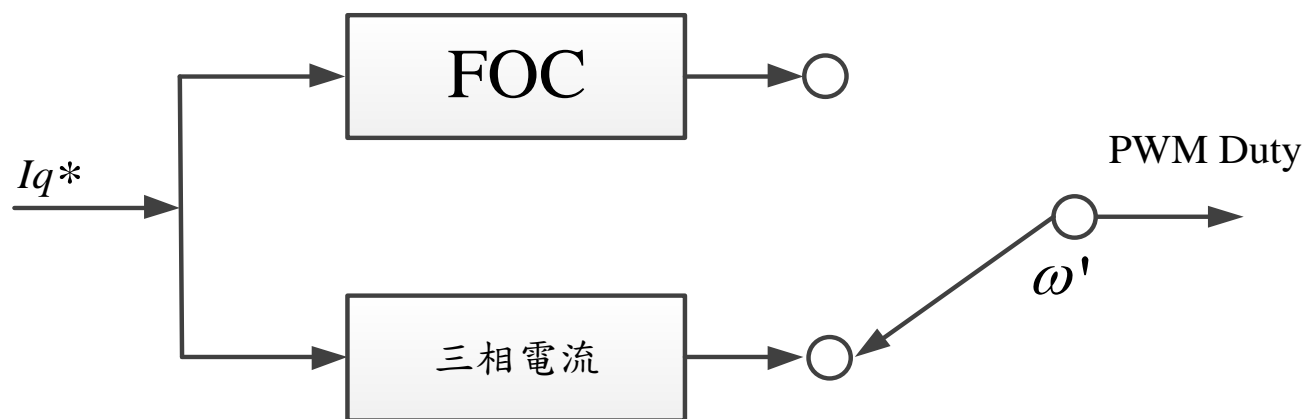
## 驱动器架构



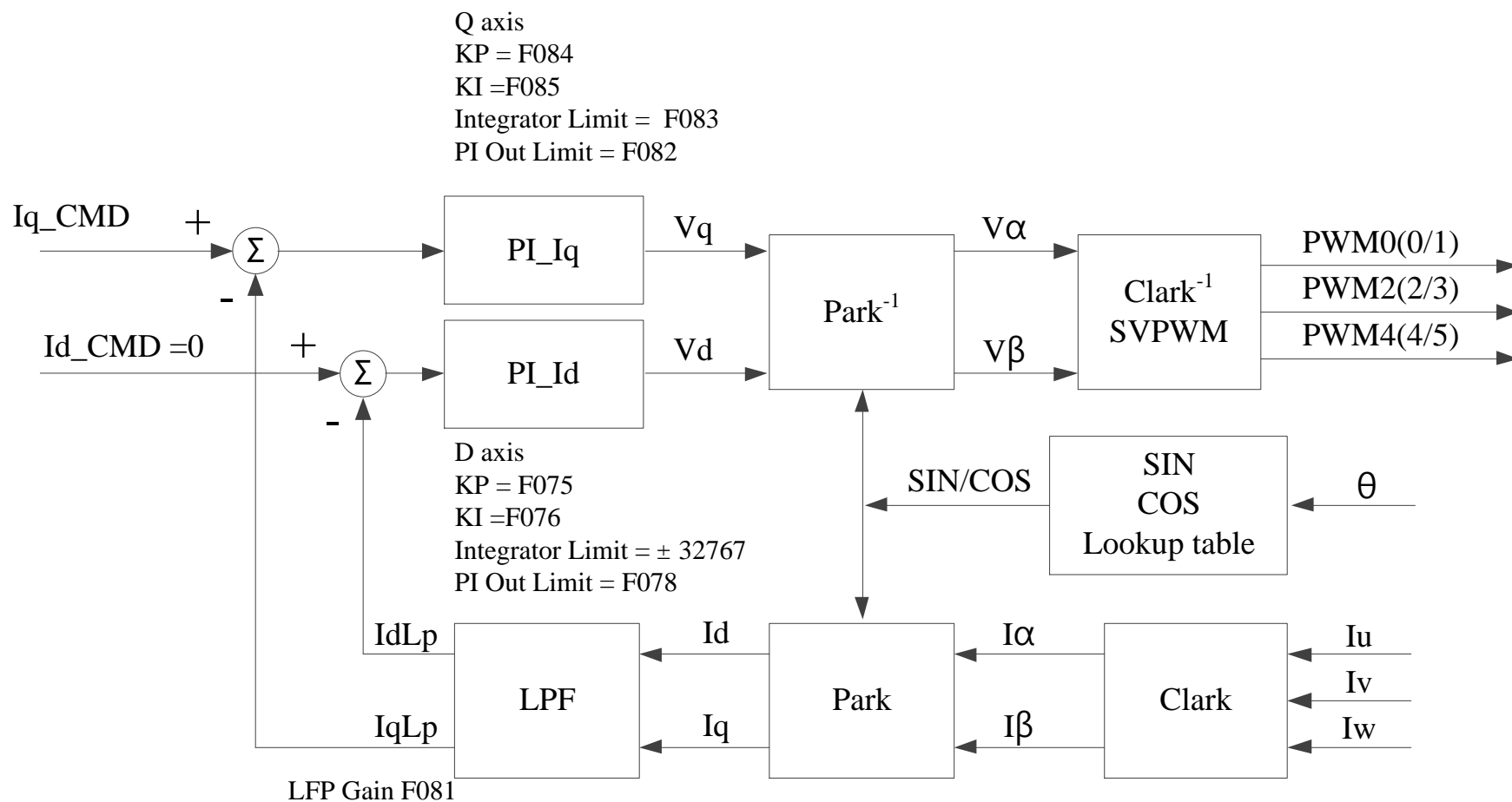
## 软件架构说明

1. PWM 中断 PWM\_IRQHandler.c 主要处理马达控制核心
2. 1 ms 中断 SysTick\_Handler.c 驱动器周边控制(速度回路.....)
3. main.c MCU 硬件层初始设定

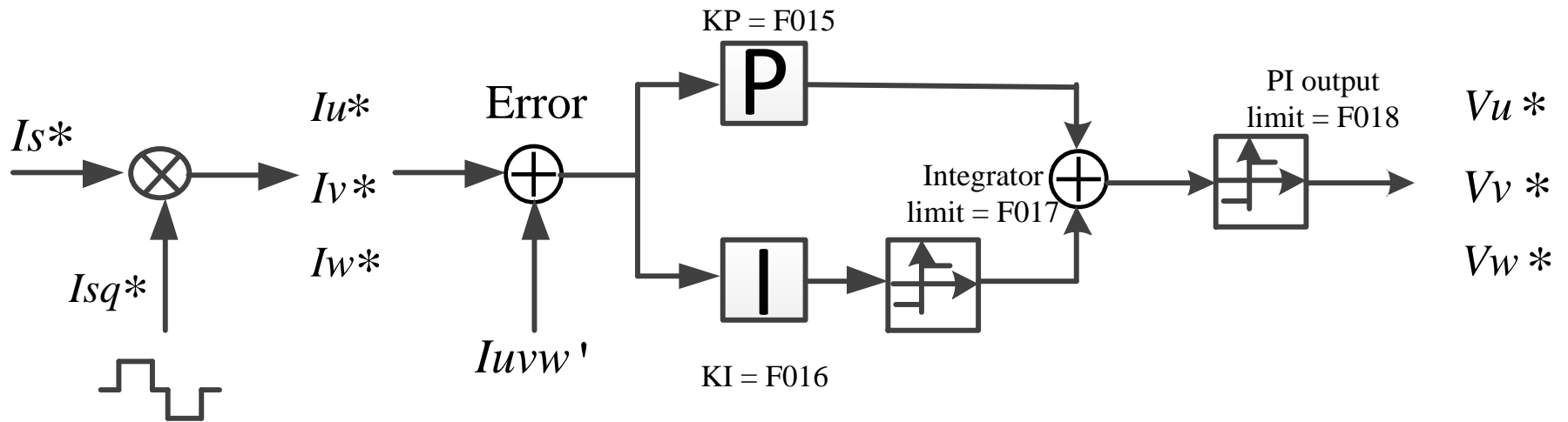
# 1.PWM中断PWM\_IRQHandler.c主要处理马达控制核心



# 软件FOC 架构



## 3相电流独立控制架构

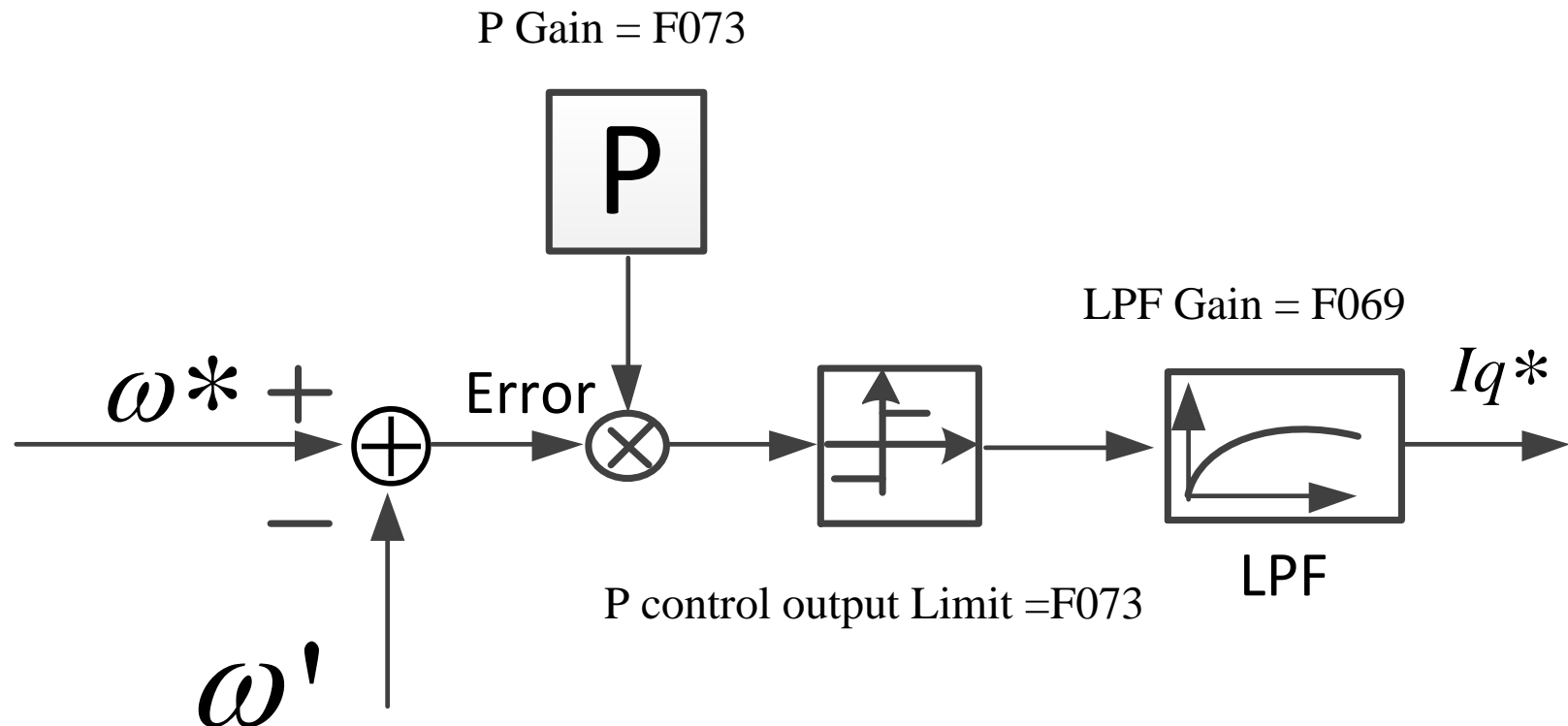


# 锁相



## 2. 1 ms 中断 SysTick\_Handler.c 驱动器周边控制(速度回路.....

### 刹车控制架构





### 3. main.c处理UI做参数管理

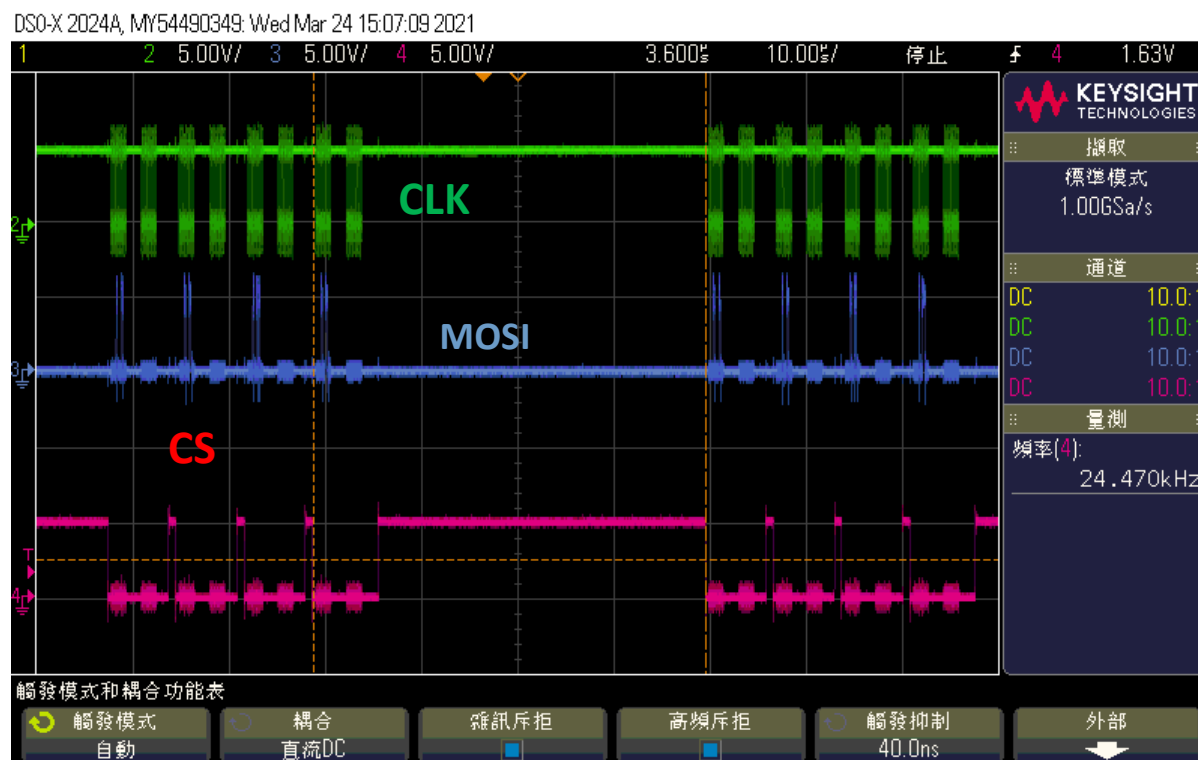
```

FUN_Data_Type const FATAB[MAX_FUNC_QTY+1]= {
    // F_000
    {&FunPar.runsrc, 0, 2, B16|DOT0,
    02 ,00 ,00 ,00 ,00,00 ,00 ,00 },
    //F_001
    {&FunPar.frqsrc, 0, 2, B16|DOT0,
    02 ,03 ,00 ,00 ,00,00 ,00 ,00 },
    //F_002
    {&FunPar.carryset, 0, 1000, B16|DOT0,
    05 ,04 ,00 ,00 ,00,00 ,00 ,00 },
    //F_003
    {&FunPar.first_cmd, 0, 32000, B16|DOT1,
    //40000
    100 ,01 ,00 ,00 ,00 ,00 ,00 ,00 },

```

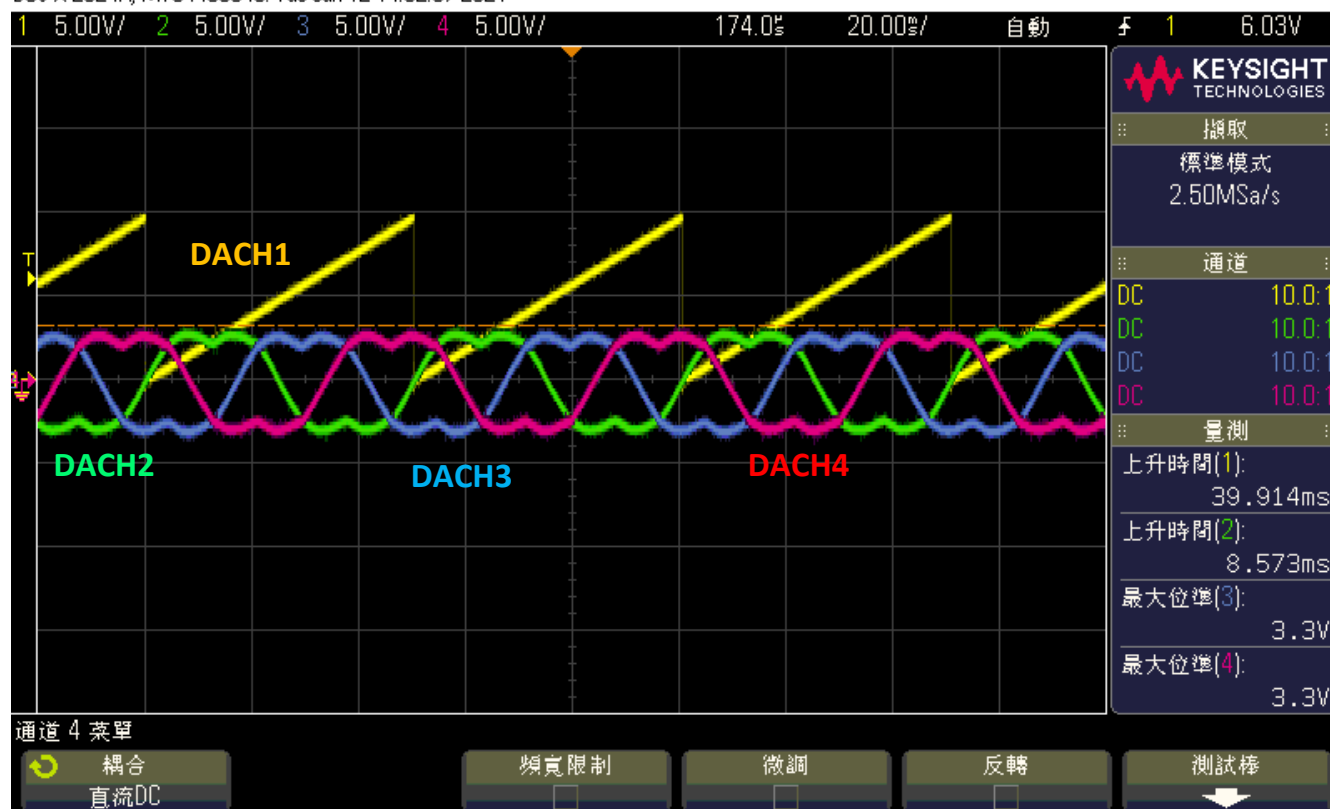
## 4.Debug DA界面

### SPI 接口输出与PWM中断同步



## DA輸出

DSO-X 2024A, MY54490349: Tue Jan 12 14:32:07 2021



# Thank you