

文档版本	V1.0
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APT32S003 CORET 应用指南

— — — — —




```
/******  
//CORET Functions  
//EntryParameter:NONE  
//ReturnValue:NONE  
/******  
void CORET_CONFIG(void)  
{  
    CORET_DeInit();  
    SYSCON_General_CMD(ENABLE,ENDIS_SYSTICK);  
    CK801->CORET_RVR=59999;  
    //CORETCLK=sysclock/8=48M/8=6Mhz e.g:10ms=(CORET_RVR+1)*(8/48M);CORET_RVR=60000-1=59999  
    CORET_reload();  
    CORET_CLKSOURCE_EX(); //use ex clock  
    CORET_TICKINT_Enable(); //clear CORET counter  
    CORET_stop();  
    //CORET_start();  
    CORET_Int_Enable();  
    //CORET_WakeUp_Enable();  
}
```

3.2 定时输出

```

void GPIO_CONFIG(void)
{
    GPIO_Init(GPIOA0,13,0);
    GPIO_Write_High(GPIOA0,13);
}

/*****/
//CORET Functions
//EntryParameter:NONE
//ReturnValue:NONE
/*****/
void CORET_CONFIG(void)
{
    CORET_DeInit();
    SYSCON_General_CMD(ENABLE,ENDIS_SYSTICK);
    CK801->CORET_RVR=59999;
    //CORETCLK=sysclock/8=48M/8=6Mhz e.g:10ms=(CORET_RVR+1)*(8/48M);CORET_RVR=60000-1=59999
    CORET_reload();
    CORET_CLKSOURCE_EX(); //use ex clock
    CORET_TICKINT_Enable(); //clear CORET counter
    CORET_start();

    CORET_Int_Enable();
    //CORET_WakeUp_Enable();
}
void APT32S003_init(void)
{
    //-----/
    //Peripheral clock enable and disable
    //EntryParameter:NONE
    //ReturnValue:NONE
    //-----/
    SYSCON->PCER0=0xFFFFFFFF; //PCLK Enable 0x00410071
    SYSCON->PCER1=0xFFFFFFFF; //PCLK Enable
    while(!(SYSCON->PCSR0&0x1)); //Wait PCLK enabled
    //-----/
    //ISOSC/IMOSC/EMOSC/SYSCLK/IWDT/LVD/EM_CMFAIL/EM_CMRCV/CMD_ERR OSC stable interrupt
    //EntryParameter:NONE

```

```

//ReturnValue:NONE

//-----/

SYSCON_CONFIG(); //syscon initial
CK_CPU_EnAllNormalIrq(); //enable all IRQ

//-----/

//Other IP config
//-----/

GPIO_CONFIG(); //GPIO initial
CORET_CONFIG(); //CORET initial
}

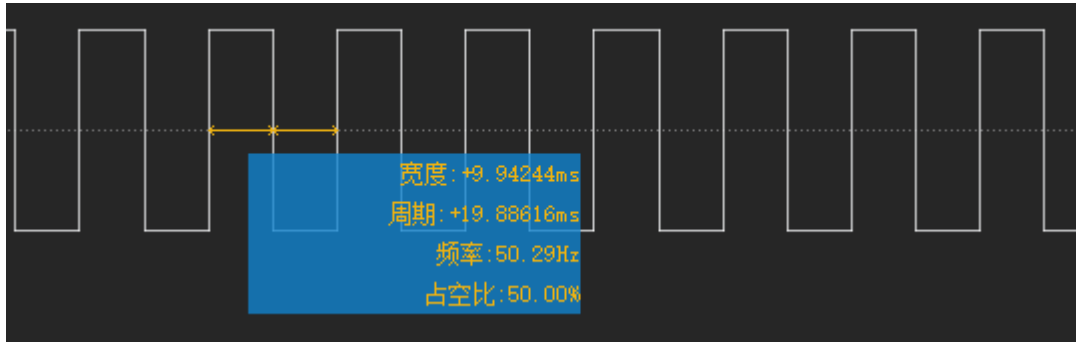
void CORETHandler(void)
{
    static U8_T temp;
    // ISR content ...

    CK801->CORET_CVR = 0x0; // Clear counter and flag
    nop;
    if(temp==0)
    {
        temp = 1;
        GPIO_Write_Low(GPIOA0,13);
    }
    else
    {
        temp = 0;
        GPIO_Write_High(GPIOA0,13);
    }
}

/*****/
//main
/*****/

int main(void)
{
    //delay_nms(5000);
    APT32S003_init();
    while(1)
    {
        SYSCON_IWDCNT_Reload();
    }
}

```



4. 程序下载和运行