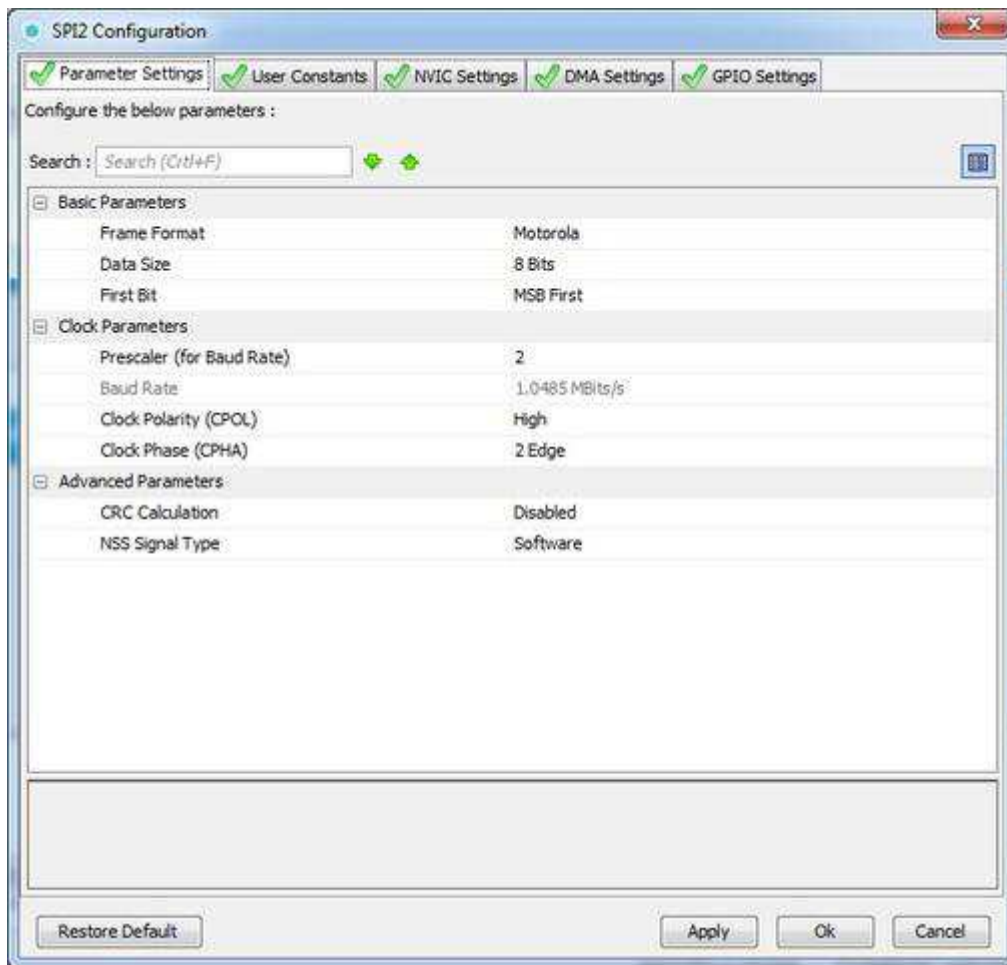


Hello everyone,

I have never used SD card in my previous project. Today I change it. I use STM32L053 MCU and CubeMX. SPI is configured in the following way:



I have added FATfs(from MiddeWare). SD card has 2 GB capacity and it is SD type(not SDHC). It is connected to evalboard by sd adapter(like arduino). I have written power_on function, which you can see below. This function is called before infinite loop. I have expected 0x01 response but was 0xFF(I checked it by Logic analyzer). I don't know where is problem.

```
static void SELECT(void)
{
    HAL_GPIO_WritePin(GPIOB, CS_Pin, GPIO_PIN_RESET);
}
static void DESELECT(void)
{
    HAL_GPIO_WritePin(GPIOB, CS_Pin, GPIO_PIN_SET);
}
static void xmit_spi(BYTE Data)
{
    while (HAL_SPI_GetState(&hspi2) != HAL_SPI_STATE_READY);
    HAL_SPI_Transmit(&hspi2, &Data, 1, 100);
}
static BYTE rcvr_spi(void)
{
    unsigned char Dummy, Data;
    Dummy = 0xFF;
    Data = 0;
    while ((HAL_SPI_GetState(&hspi2) != HAL_SPI_STATE_READY));
    HAL_SPI_TransmitReceive(&hspi2, &Dummy, &Data, 1, 5000);
    return Data;
}
```

```

void power_on(void)
{
  unsigned char i, cmd_arg[6];
  unsigned int Count = 0x10;
  BYTE spi_status = 0;
  DESELECT();
  for(i = 0; i < 10; i++)
  {
    xmit_spi(0xFF);
  }
  SELECT();
  cmd_arg[0] = (CMD0 | 0x40);
  cmd_arg[1] = 0;
  cmd_arg[2] = 0;
  cmd_arg[3] = 0;
  cmd_arg[4] = 0;
  cmd_arg[5] = 0x95;
  for (i = 0; i < 6; i++)
  {
    xmit_spi(cmd_arg[i]);
  }
  while ((rcvr_spi() != 0x01) && Count)
  {
    Count--;
  }
  DESELECT();
  xmit_spi(0xFF);
  PowerFlag = 1;
  ?????????????????????????????????????????????????????????????
}

```

EDIT: I could not formatted code better. Sorry.

Someone can help me?

Thank you in advance.

Best Regards.