Configure CAN filter to accept all messages

Offline S G over 9 years ago

Hi All,

Really need help on this one, any suggestions welcome!....

I'm using the CAN bus example program for MCBSTM32C eval board. It has an STM32F107 chip and I am have issues with the CAN Filter....

Does anyone know how to configure the CAN Filter to accept ALL incoming messages?

Thanks

Shane

Offline ImPer Westermark over 9 years ago

Wouldn't a good way be to turn it off?

> Offline S G over 9 years ago in reply to ImPer Westermark
>
> Haha, yes that would be great because as a default its supposed to accept all messages, Thats what I am trying to

do, however i'm having trouble doing that here. Can't seem to turn it off without blocking everything. which is quite the opposite of what i'm looking for...

Offline John Linq. over 9 years ago in reply to S G

There supposed to be some functions in ST's OOXX_StdPeriph_Driver Library like:

```
void CAN_FilterInit(CAN_FilterInitTypeDef* CAN_Filte
```

Maybe see this:

my.st.com/.../Flat.aspx

```
Agree, the documentation is a little confusing. The
and FilterIDHigh as well as MaskIDLow and MaskIDHig
The bits need to be shifted depending on the type o
several weeks to find the answer on a German websit
look at my example code below, hopefully it will be

In this example four filters are created to receive
don't have to be in order, just happened to be the
for the Filter/Mask IDs need to be shifted to the l

CAN_FilterInitStructure.CAN_FilterNumber = 1;
CAN_FilterInitStructure.CAN_FilterMode = CAN_Filter
CAN_FilterInitStructure.CAN_FilterScale = CAN_Filte
// All filters are shifted left 5 bits
CAN_FilterInitStructure.CAN_FilterIdHigh = 0x2460;
CAN_FilterInitStructure.CAN_FilterIdLow = 0x2480;
CAN_FilterInitStructure.CAN_FilterMaskIdHigh = 0x24
CAN_FilterInitStructure.CAN_FilterMaskIdLow = 0x24C
CAN_FilterInitStructure.CAN_FilterFIFOAssignment =
CAN_FilterInitStructure.CAN_FilterActivation = ENAB
CAN_FilterInit(&CAN_FilterInitStructure);
```

Offline John Linq. over 9 years ago in reply to John Linq

Feedback

```
typedef struct
{
  uint16_t CAN_FilterIdHigh;          /*!< Specifi
                                           con
                                           Thi

  uint16_t CAN_FilterIdLow;           /*!< Specifi
                                           con
                                           Thi

  uint16_t CAN_FilterMaskIdHigh;      /*!< Specifi
                                           acc
                                           fir
                                           Thi

  uint16_t CAN_FilterMaskIdLow;       /*!< Specifi
                                           acc
                                           sec
                                           Thi

  uint16_t CAN_FilterFIFOAssignment; /*!< Specifi
                                           Thi

  uint8_t CAN_FilterNumber;           /*!< Specifi

  uint8_t CAN_FilterMode;             /*!< Specifi
                                           Thi

  uint8_t CAN_FilterScale;            /*!< Specifi
                                           Thi
```

Offline S G over 9 years ago in reply to John Ling

Thank you for your reply John, I'm just getting back to this now so I'll review this and let you know how it goes! Much Appreciated.

Feedback

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