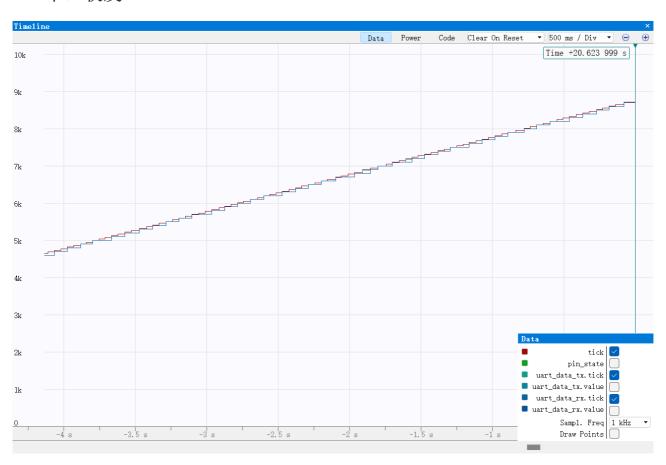
电控第一次作业

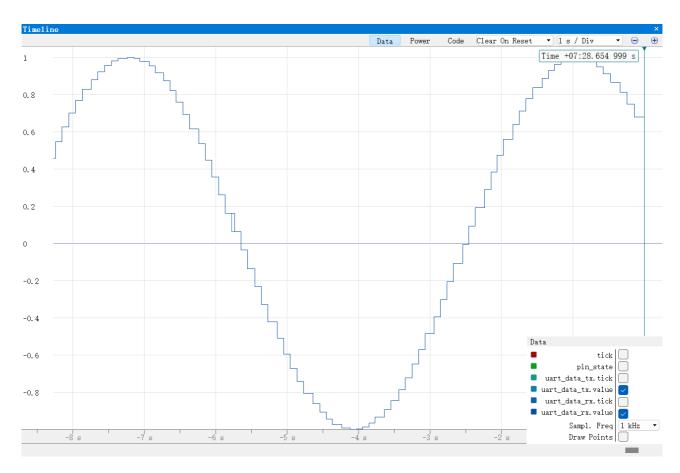
3230103546, 周也然

1 点亮闪烁LED



2 串口收发





3 CAN收发

3.1 通信协议设计

1. **帧ID**: 接收的帧ID为 **0**x**100**。

2. 数据结构:

• tick: 占用4字节,使用与串口通信相同的编码方式。

• value1: 占用2字节,使用与串口通信相同的编码方式(缩放为整数)。

• value2: 占用1字节。

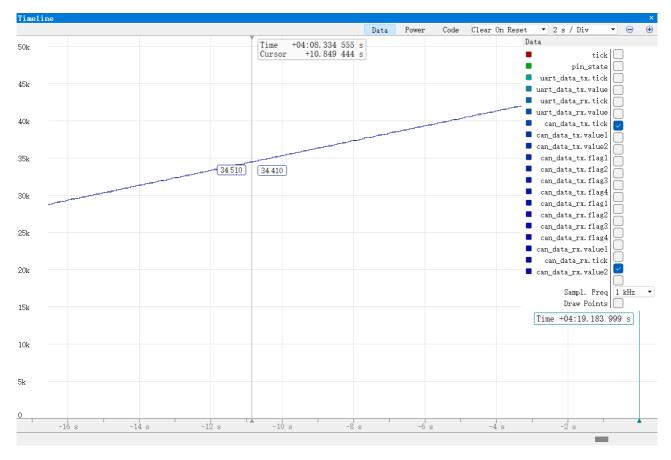
• flag1 到 flag4: 占用1个字节的低4位,每个位代表一个布尔标志。

3.2 运行实例

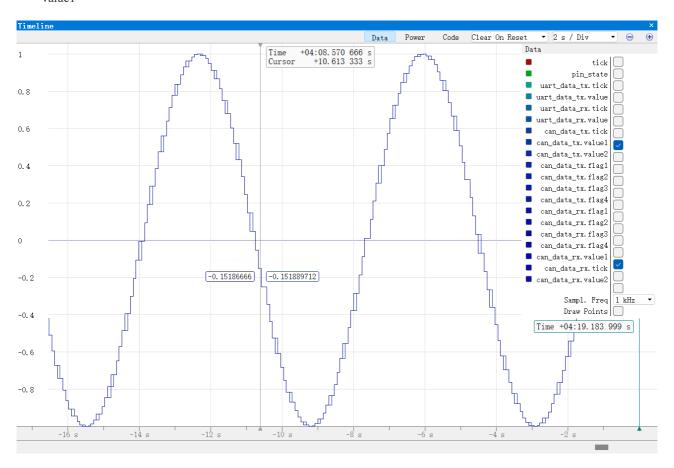
3.2.1 运行数据 (bool型数据暂未设置变化)

can_data_rx.flag1	bool	1	0	1	1	1	0	1
can_data_rx.f1ag2	bool	0	0	0	0	0	0	0
can_data_rx.f1ag3	bool	1	0	1	1	1	0	1
can_data_rx.flag4	bool	0	0	0	0	0	0	0
can_data_rx.tick	unsigned long	6 2 1 0	0	6 2 1 0	3130.48193	63	0	100
can_data_rx.value1	float	-0.0731000006	-0.999966681	0.999199986	-0.005707229	63	-0.0999000072	0.0998000056
can_data_rx.value2	unsigned char	148	0	148	117.204819	63	0	86
can_data_tx.flag1	bool	1	0	1	1	1	0	1
can_data_tx.f1ag2	bool	0	0	0	0	0	0	0
can_data_tx.f1ag3	bool	1	0	1	1	1	0	1
can_data_tx.flag4	bool	0	0	0	0	0	0	0
can_data_tx.tick	unsigned long	6 2 1 0	0	6 2 1 0	3111.20483	63	0	100
can_data_tx.value1	float	-0.0731199533	-0.999997139	0.999231637	-0.004251496	63	-0.0999415517	0.0997784659
can_data_tx.value2	unsigned char	148	0	148	117.012047	63	0	86
pin_state	enum GPIO_PinState	0	0	1	0.457831323	6	-1	1
tick	unsigned long	6 2 8 0	0	6 2 8 0	3151.18066	83	18	91

tick



value1



value2 (每0.1s自增1)

