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TimeBase时基说明

TimeBase 时基提供一个固定周期的信号，由各自的定时器功能产生溢出信号控制。

当各自的中断使能后固定时间到了后会有中断请求发生。可作为计时使用。常搭配 **LXT** 作为万年历等功能使用。

example 说明

此范例演示了 TimeBase 的 polling 模式的使用。

程序说明

1. config sys clock

TimeBase时钟来自系统时钟，因此系统时钟一定要配置正确

2. config TimeBase的溢出周期
3. enable TimeBase
4. 配置IO,主要作为示波器观察现象使用。

现象说明

1. 连接 e-link 和目标板
2. 将程序下载到 MCU 并运行
3. 通过示波器测量 PA1 对应的输出波形,目标现象如下图所示



FAQ

1. 为什么TimeBase的时间有时候不准？

范例和驱动程序默认配置TimeBase时钟来自低速fsub时钟源。若MCU无LXT功能，或者未配置LXT功能，则默认使用的是LIRC，LIRC存在一定误差，通常为10%(详细参考对应的MCU规格书)，因此时间可能会存在偏差。若需要精准的计时，请选择有LXT功能的MCU并使能LXT功能。