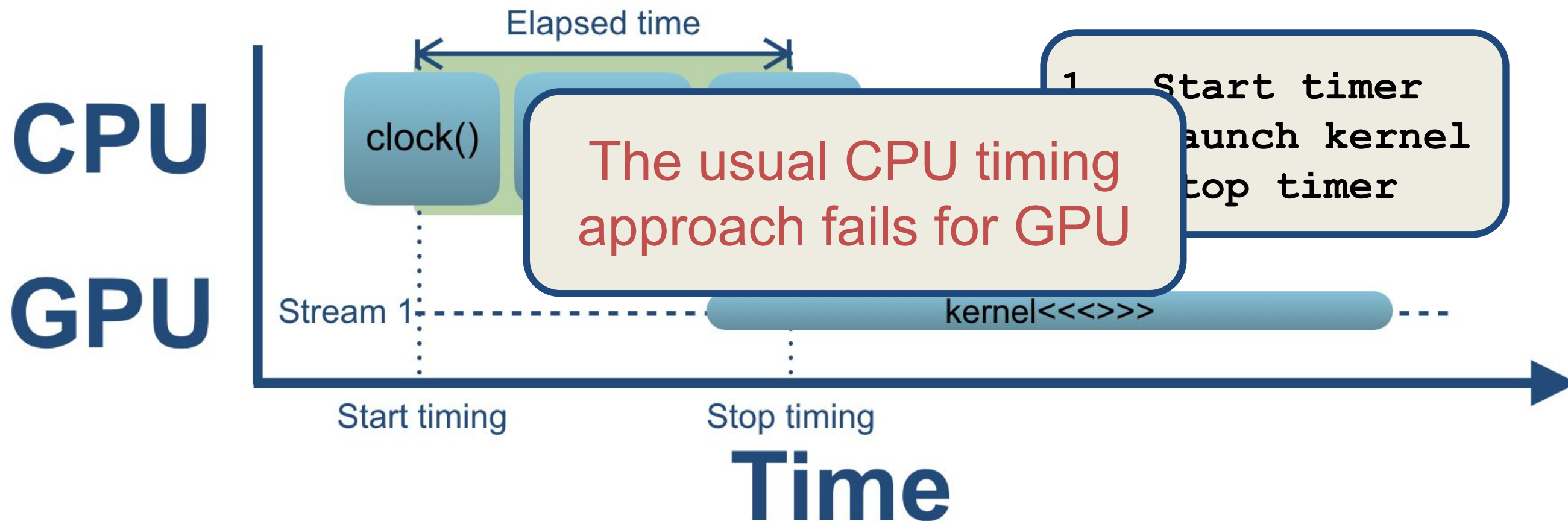


Cannot measure execution time on GPU the same way as on CPU!

- What happens if we try to measure kernel execution time naively?



GPU work is in general **asynchronous**

- GPU operations are asynchronous with respect to:
 - Streams (series of operations which execute in issue order)
 - Operations across streams may be interleaved
 - While operations within a stream execute in-order, there is no relationship between issue order execution order for operations in different streams
 - Host
 - Kernel execution, e.g., is by default asynchronous with host

```
kernel<<<...>>> (...)  
cpuWork (...)
```

} May overlap, as kernel
launch is non-blocking