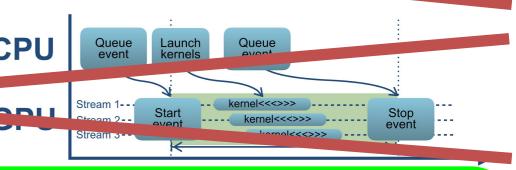
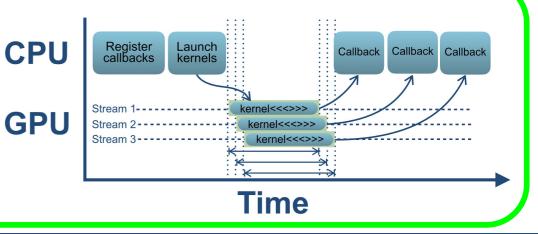
Three possible on-the-fly timing strategies

- 1. Count CPU clock cycles
 - Requires additional device to host transiers
 - Implementation may be invasive
- 2. CUDA EVENTO
 - Can give ambiguous results
- CUDA Profiling Tools Interface (CUPTI)
 - Buffer requests and delivery of timing information handled by CUPTI
 - Gives unambiguous kernel timings

- L. Start GPII
- 2 Do GPU kernel work
- Stop GPU timer
- 4. dansed time to host









Adopted solution: CUDA Profiling Tools Interface (CUPTI)

Register callback functions to manage buffer request/delivery of 'activity records'

- Callbacks triggered by GPU activity
- Access returned records

holds information about GPU or operations on GPU; different kinds for kernels, memory transfers, etc.

CPU
Register callbacks Launch kernels
Stream 1
Stream 2
Stream 3

kernel<<<>>>
kernel<</p>



