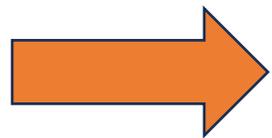


# Trigger

이유진  
(성균관대학교)

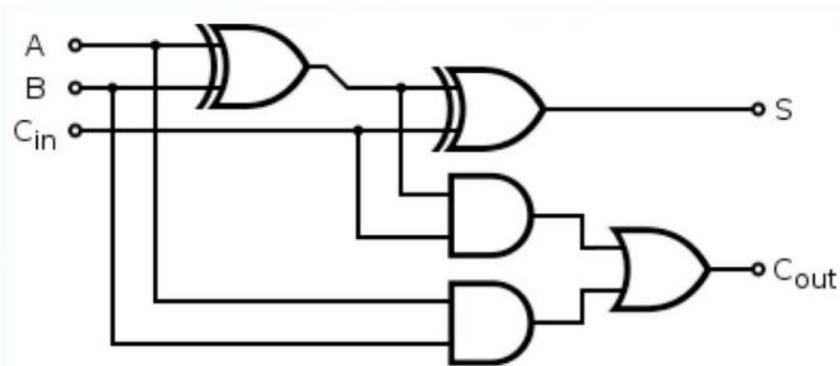
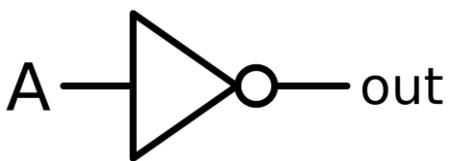
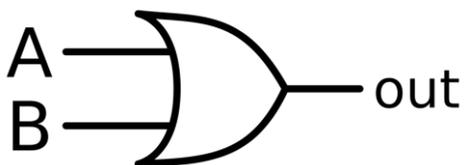
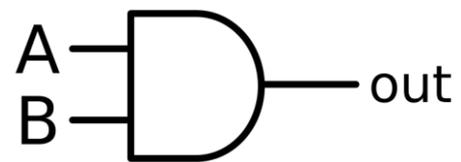
## Data AcQuisition (DAQ)

- 신호를 샘플링하는 과정
- 현실의 물리 상태를 측정해서 디지털 신호로 바꾼다
- 구성요소: Sensor, Analog-to-Digital Converter, Processing and Storage element
- 역할: Detector에서 생성된 신호를 처리하고, 흥미로운 정보를 영구 저장소에 저장한다

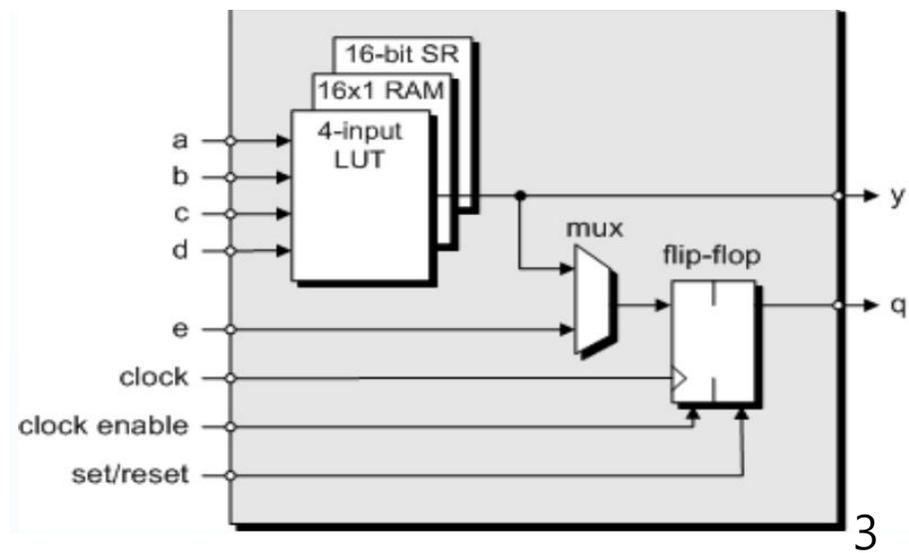
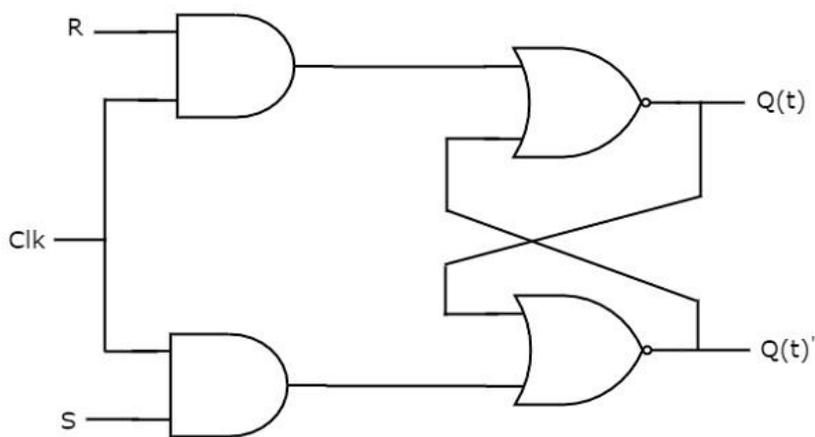
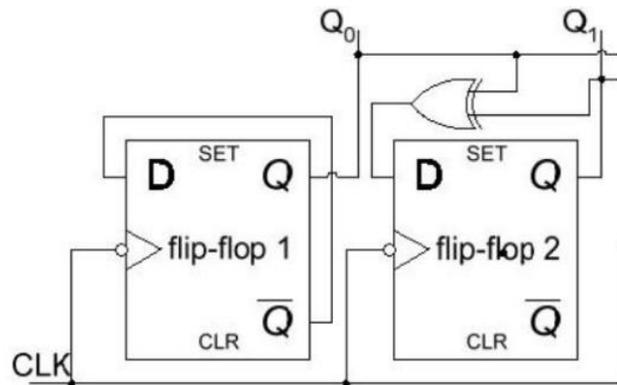


신호가 너무 많아서 Trigger로 원치 않는 신호를 걸러낸다



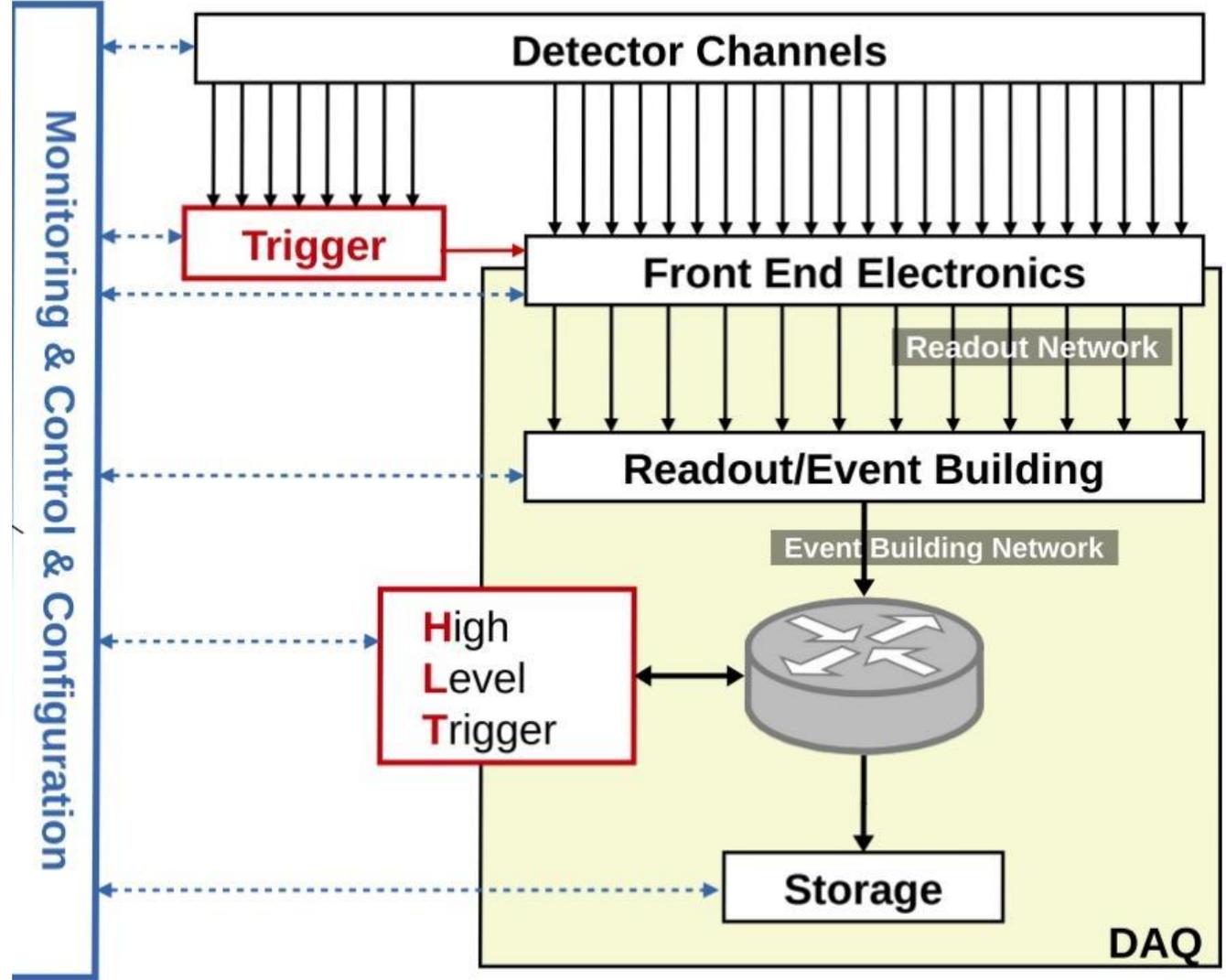


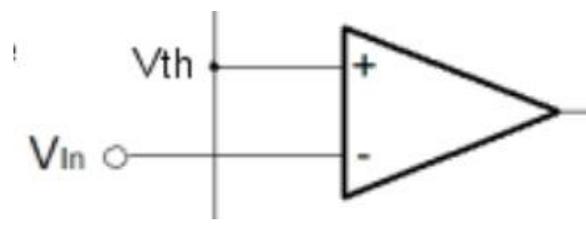
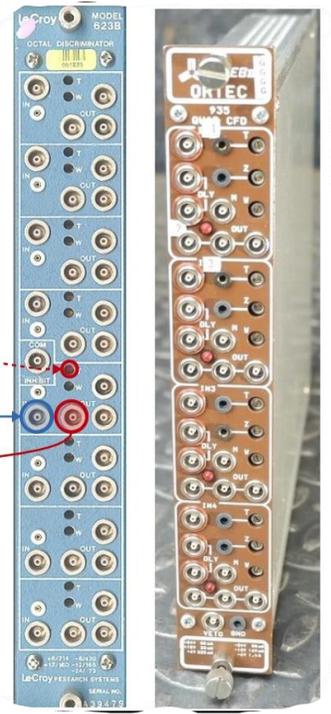
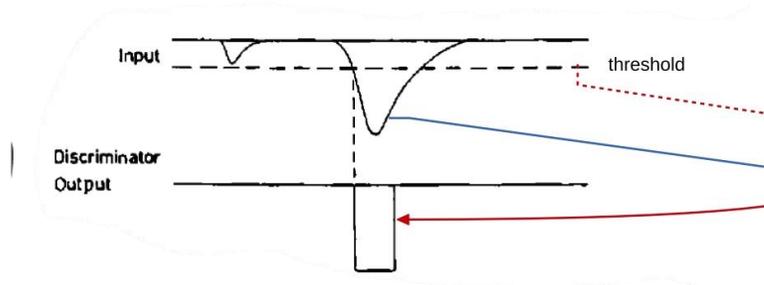
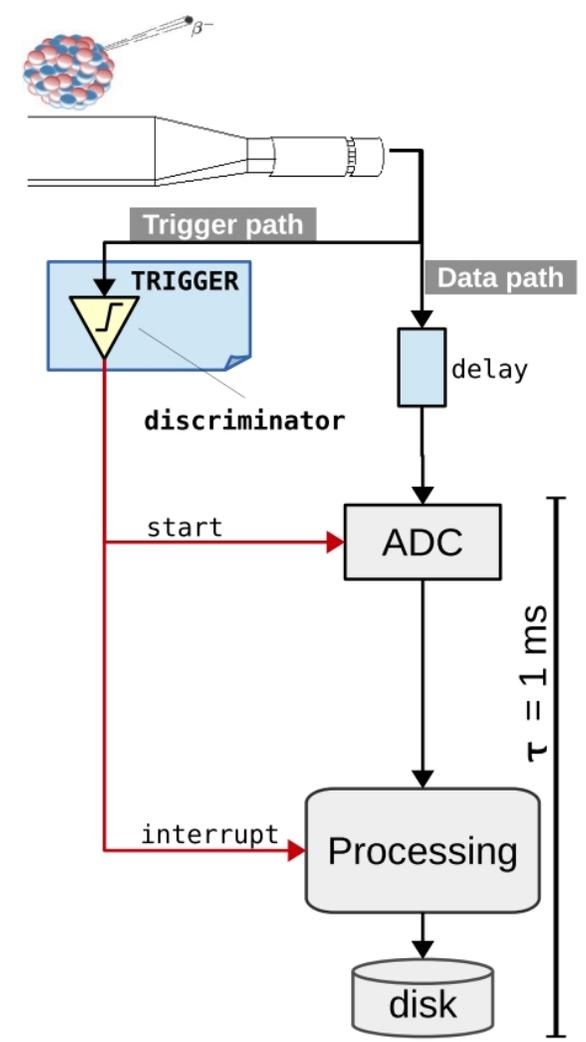
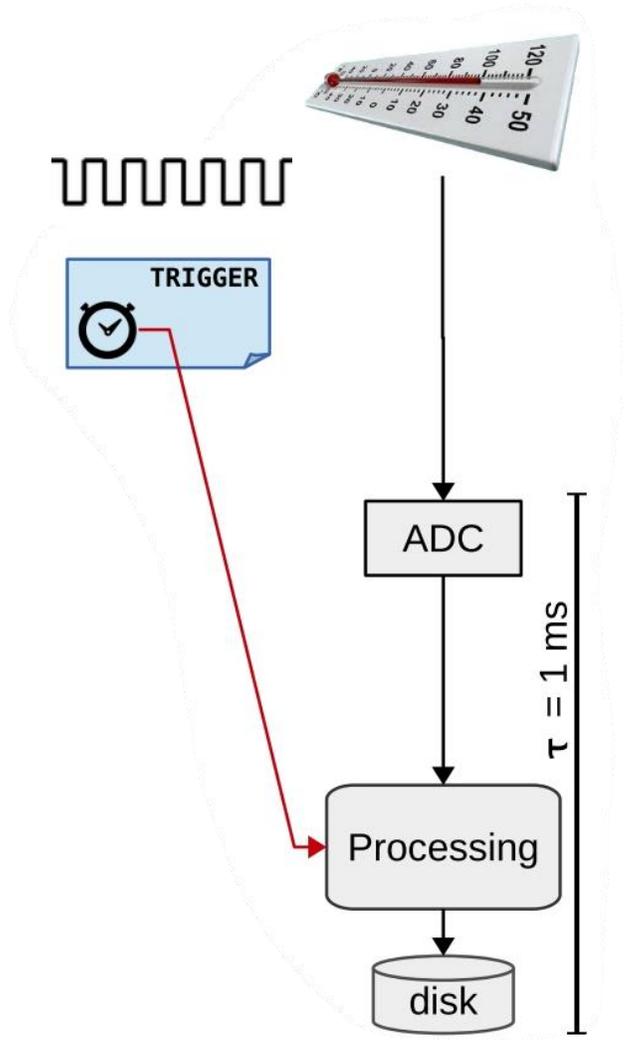
| A | B | $C_{in}$ | S | $C_{out}$ |
|---|---|----------|---|-----------|
| 0 | 0 | 0        | 0 | 0         |
| 1 | 0 | 0        | 1 | 0         |
| 0 | 1 | 0        | 1 | 0         |
| 1 | 1 | 0        | 0 | 1         |
| 0 | 0 | 1        | 1 | 0         |
| 1 | 0 | 1        | 0 | 1         |
| 0 | 1 | 1        | 0 | 1         |
| 1 | 1 | 1        | 1 | 1         |

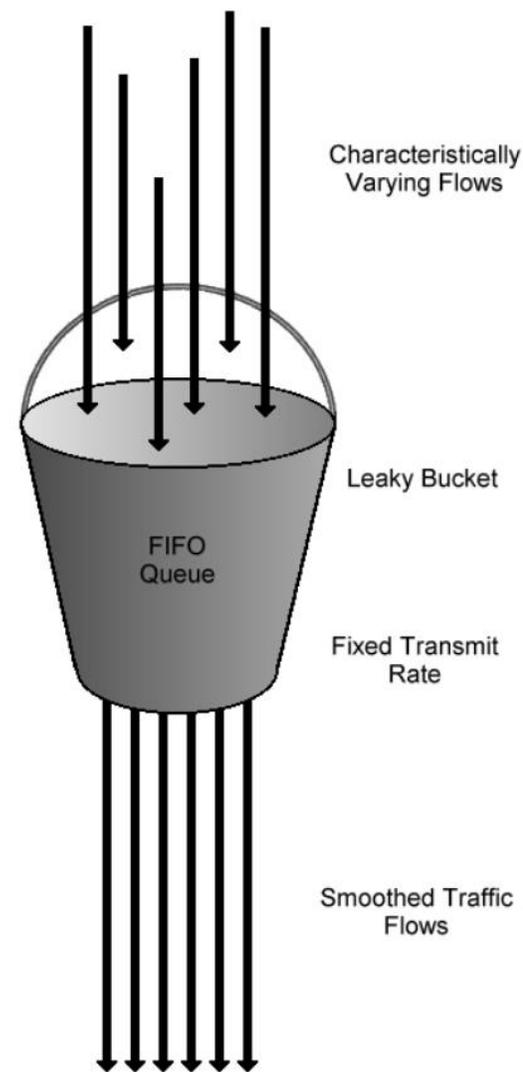
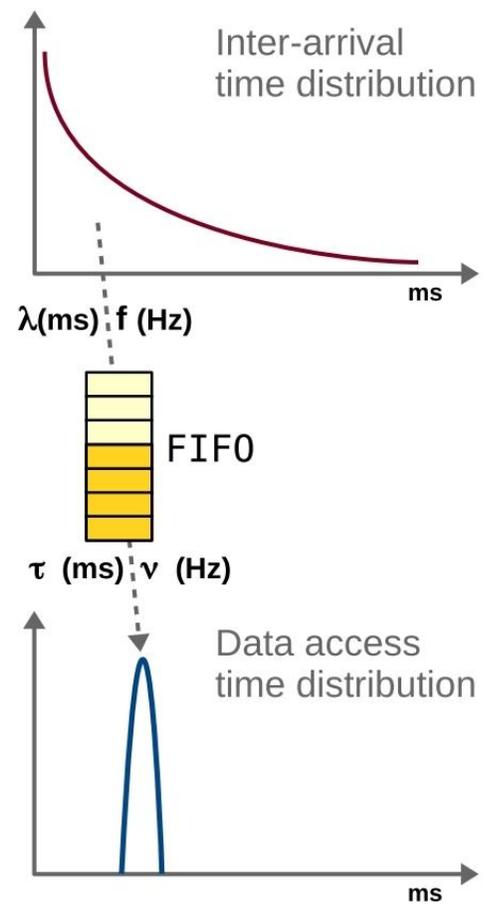
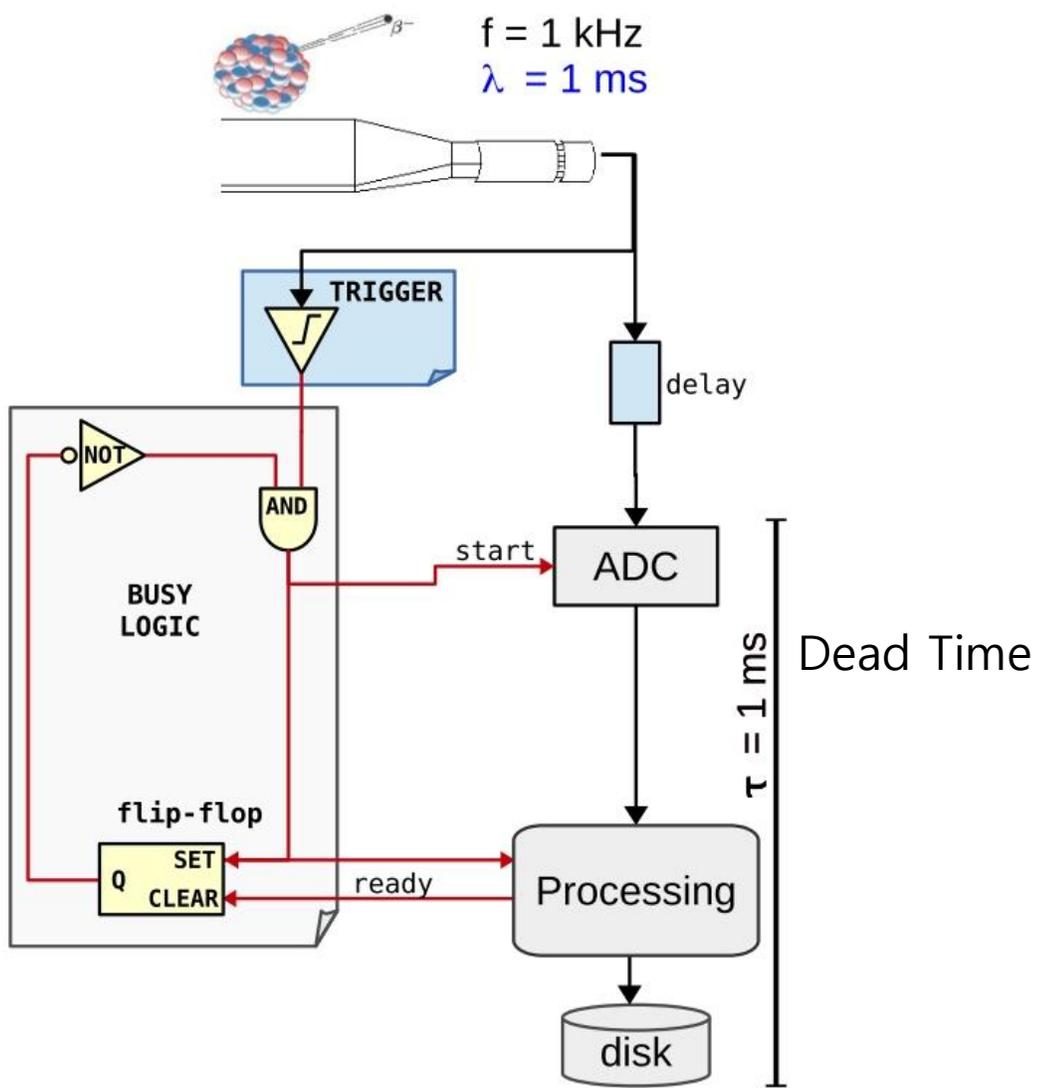


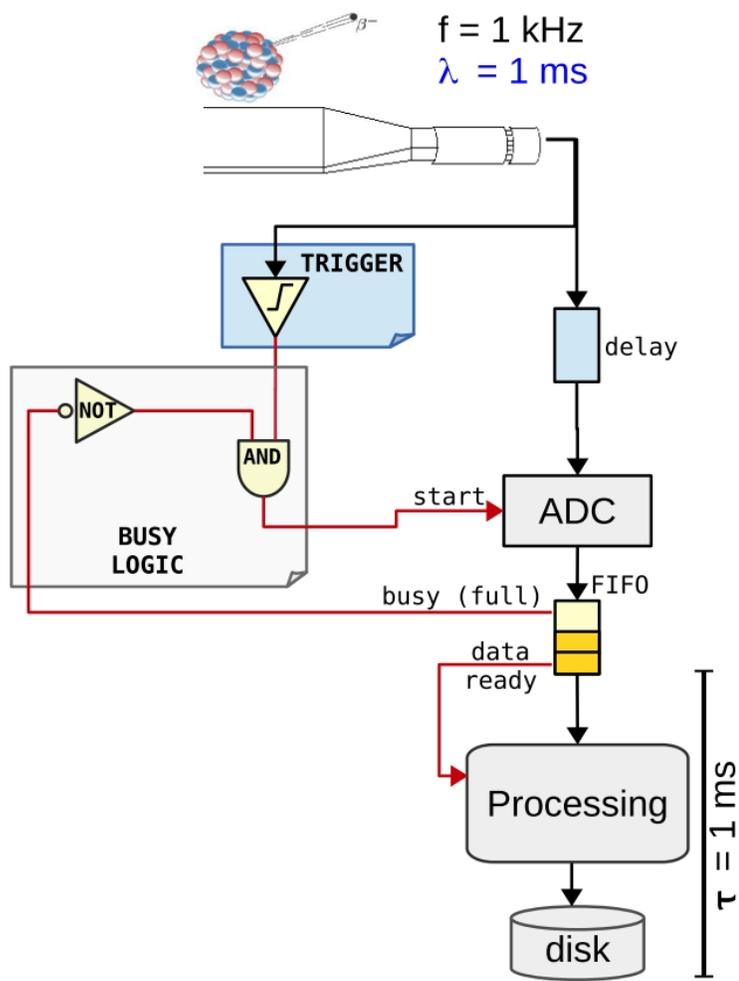
# Trigger and Data Acquisition

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|  | 19:00 | 20:00 | 21:00 | 22:00 | 23:00 | 00:00 | 01:00 |
|--|-------|-------|-------|-------|-------|-------|-------|
|  |       |       |       |       |       |       |       |
|  |       |       |       |       |       |       |       |
|  |       |       |       |       |       |       |       |
|  |       |       |       |       |       |       |       |

