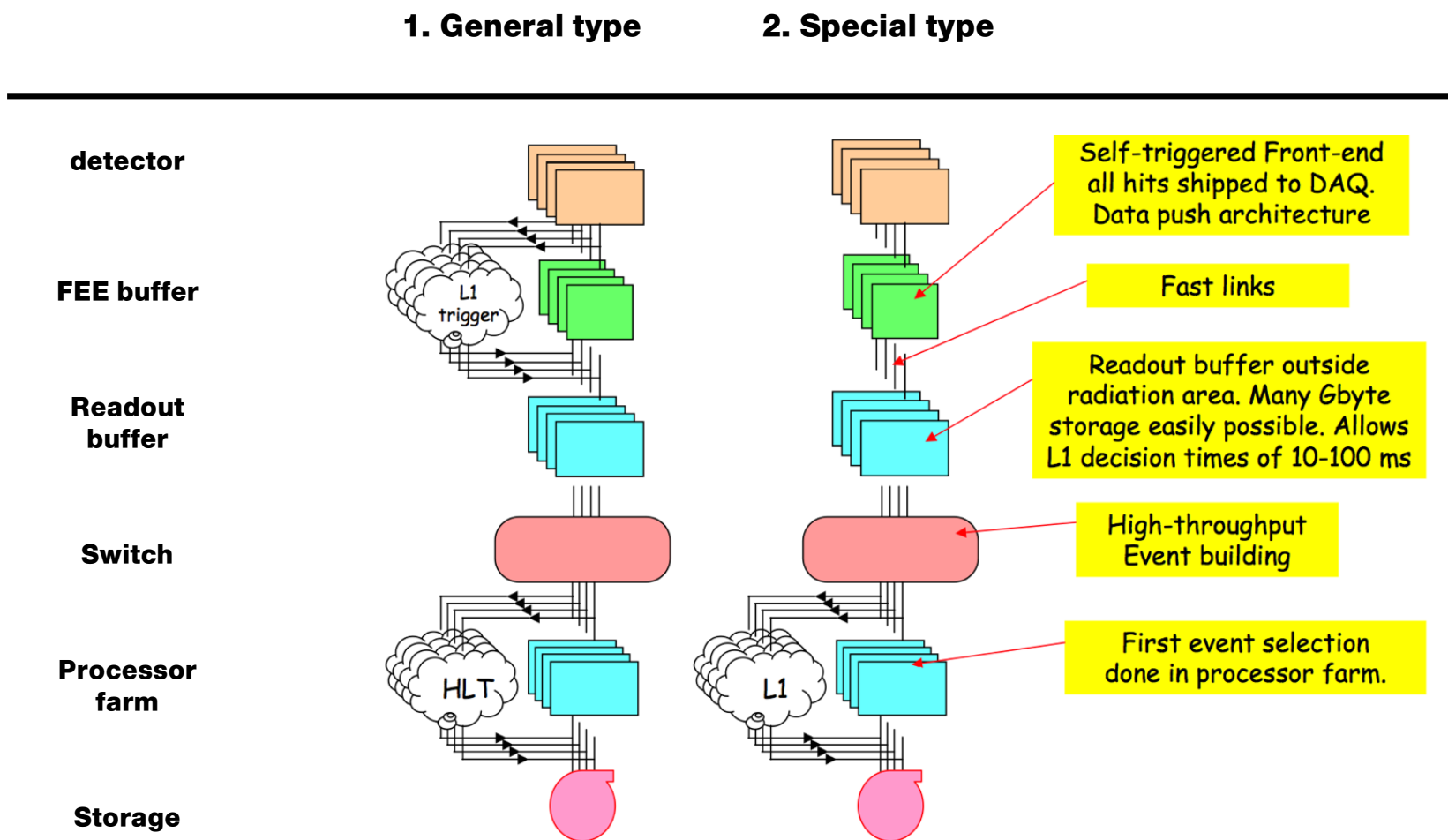


# Discussion on DAQ

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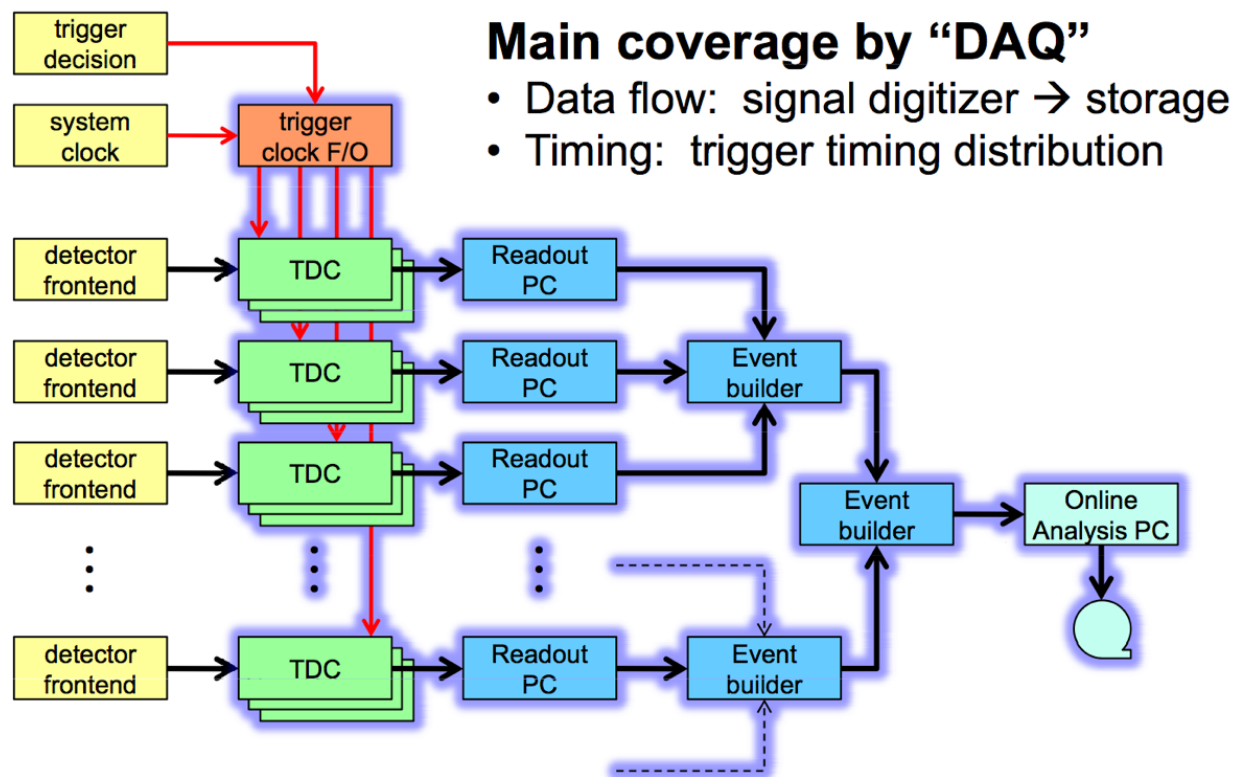
# Two conception for DAQ system



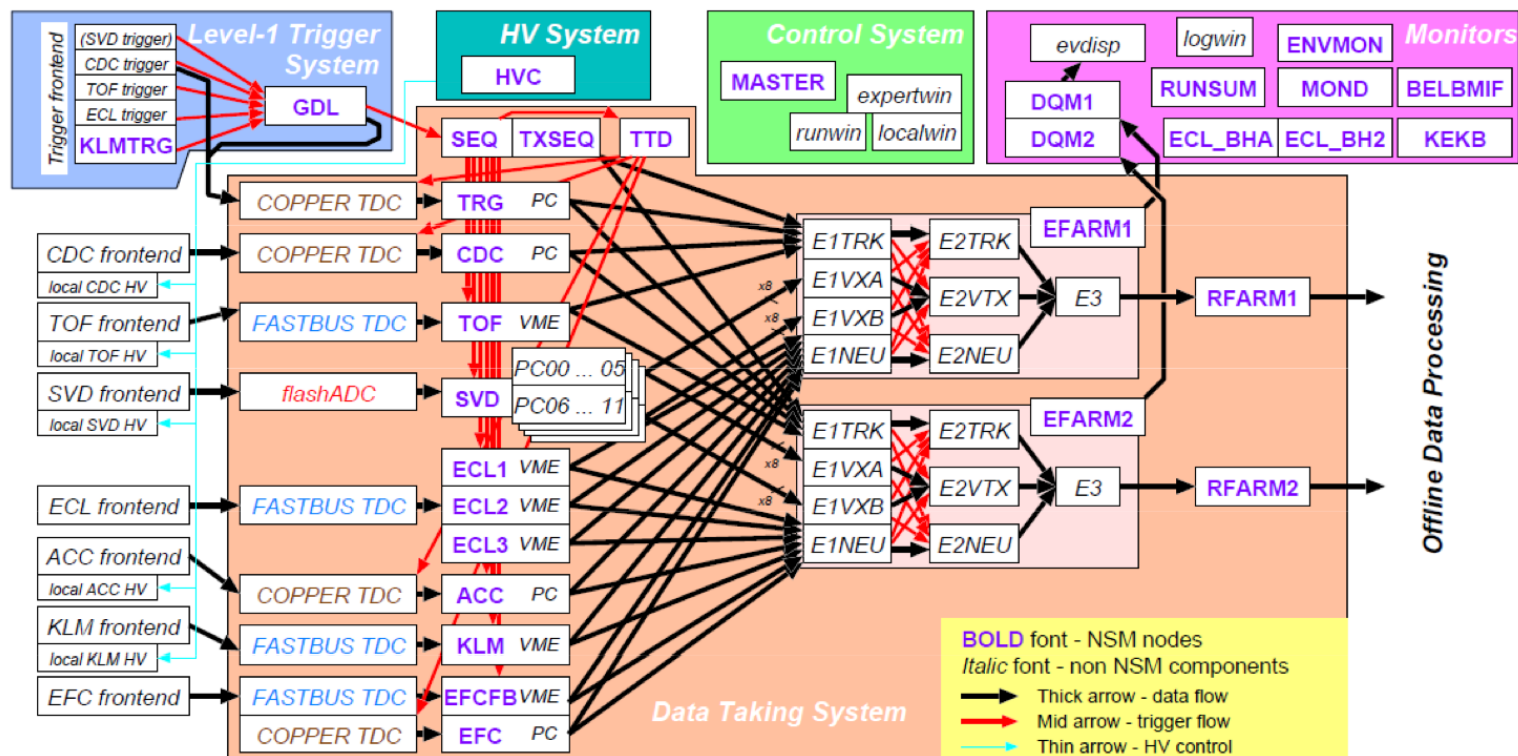
ref.16th IEEE NPSS RT09 May, Beijing

# General type DAQ

Ex. DAQ for Belle experiments.



# Belle DAQ Diagram

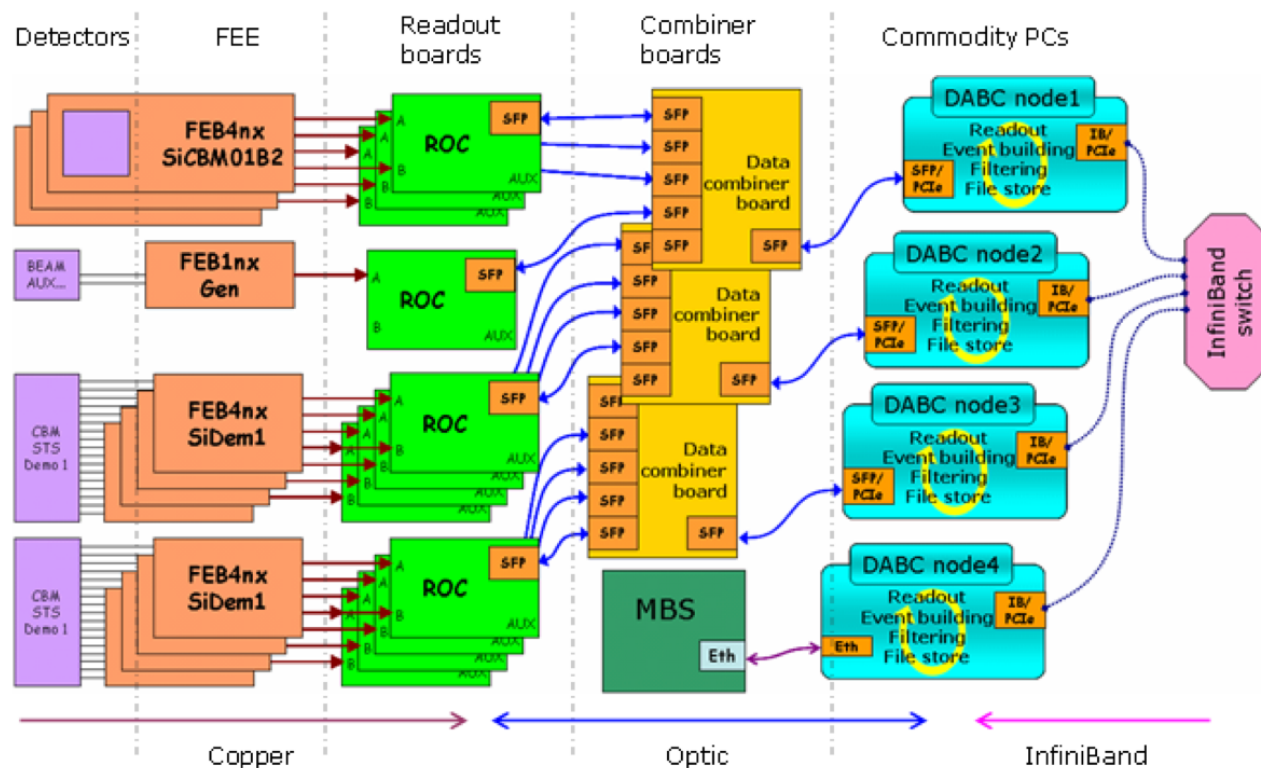


## Coverage list :

- Signal digitization
- Digitized data readout
- Event building
- Online data analysis
- Timing distribution
- Run control
- HV control
- Data quality monitor

# Special type DAQ

Ex. DABC (Data Acquisition Backbone Core) for GIS



DABC is general-purpose DAQ framework

Can be used for different purposes from small detectors tests to multi-nodes application

Through its plugin architecture can be easy extended to specific needs

# Discussion

## Requirements (?)

- Flexible - adopt different kinds of soft- and hardware
- Compact - use only necessary code
- Scalable - from small detector tests to multi-nodes clusters
- Performing - low framework overhead
- Multiprocessing & multithreading

## Others