INTT Wiki
DST Contents

Yuko Sekiguchi

RIKEN

Variables and Accessors under INTTRAWHIT Node

- The node in a raw level DST structure, such as a detector data model, typically holds raw hit information for detectors.

- No wiki in sPHENIX and Doxygen is crap.

- It would be helpful to have a wiki summarizing the contents of the DST.
  - Names, types, ranges, and roles of each variable

Variables and Accessors under INTTRAWHIT Node

- https://wiki.sphenix.bnl.gov/index.php?title=DST_INTT_Contents

INTTRAWHIT table

Type	Name	Description
uint64_t	bco	A 40-bit beam clock counter common across the entire sPHENIX system.
int32_t	packetid	Parameters to indetify servers. The range is 3001 to 3008.
uint32_t	word	Hit parameters before decording ? > Takashi?
uint16_t	fee	Parameter to identify harf ladders. The range is 0 to 13.
uint16_t	channnel_id	Parameter to identify silicon strips within the FPHX chip. The range is 0 to 127.
uint16_t	chip_id	Parameter to identify FPHX chips within a half-ladder. The range is 1 to 26.
uint16_t	adc	ADC value with 3bit.
uint16_t	FPHX_BCO	Value of the beam clock counter in the FPHX chip, ranging from 0 to 127.
uint16_t	full_FPHX	For debug? It is not usually used.
uint16_t	full_ROC	For debug? It is not usually used.
uint16_t	amplitude	Pulse height generated within the ROC used for calibration, with a range of 0 to 64.
uint32_t	event_counter	Event counter?

Summary and Outlook

- I've prepared the INTTRAWHIT table
  - Next is HitCluster and TrkCluster.
- Detectors such as EMCAL/MBD/sEPD for tracking are also useful, however, it is difficult to get information for other detectors.
  - Ask experts for other detectors or Xudong?