

QA tools status

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QA tools status

QA tools - Python GUIs based on Tkinter

GUIs have 3 main parts

- **Detector menu/label** - menu with FD, NDOS options for main window, label otherwise
 - Shows current selected detector part (block, plane, module ID)
 - **Selection of detector does not work yet**
- **Histogram menu**
 - Provides options for selection of histogrammed variable
 - Different set of options for different detector
 - **More options have to be added**
- **Detector part labels**
 - Show basic information about given detector part (block, plane, module ID)
 - Left click opens new window with lower level detector structure parts
 - Right click creates ROOT histogram of variable selected in histogram menu for given detector part
 - **Detailed module info has to be added**

QA tools status #2

Detector menu (main window)

- FD, NDOS - does not work yet

Label otherwise - shows selected detector part (block,plane,module ID)

Histogram menu

- provides drawing options for selected detector part

FD				Menu
Block 0	Block 1	Block 2	Block 3	Block 4
Block 5	Block 6	Block 7	Block 8	Block 9

Detector part labels

- left click opens new window with selected detector part details
- right click creates histogram of variable selected in histogram menu for selected detector part

QA database intro

- QA databases at FNAL, Ash River, UMN factory + other ?
 - PostgreSQL databases
 - They can be accessed on ifdbprod.fnal.gov host using
 - psql client
psql -d nova_hardware -h ifdbprod.fnal.gov -username nova_reader
for online work
 - ROOT TSQLServer object from a script
(for example see ROOT's sql tutorials)
- Nova QA database tables are organized in schemas
 - public schema - NDOS related info
 - module_factory - ND only ?
 - ashriverprod_factory - FD only ?

Use command `set search_path to schema_name` to switch schema
or use `schema_name` in front of the `table_name` to access tables
from other schemas without switching, for example
`select * from ashriverprod_factory.module` works even from other
schemas.

QA database intro # 2

- \d - lists all tables, views and sequences for current schema
- \dn - lists available schemas