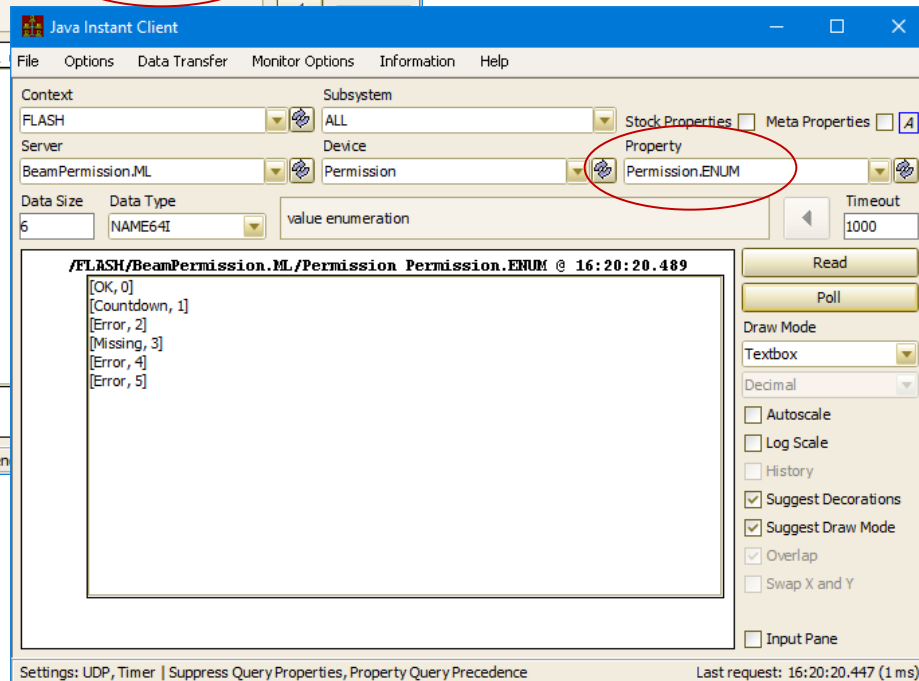
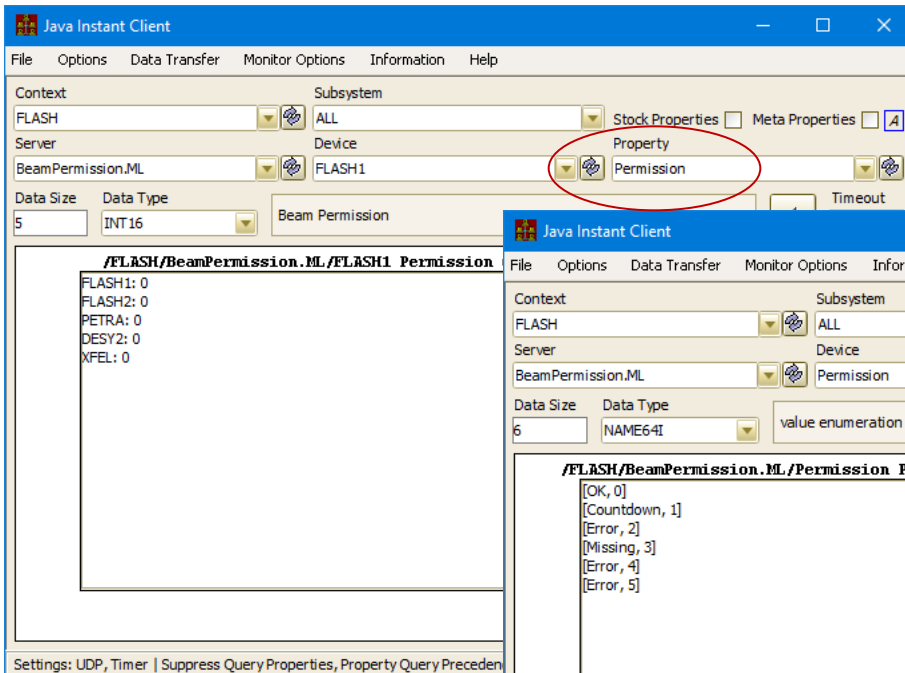


TINE Odds and Ends

Some things that might be of interest ...

Combobulator news ...

The Combobulator can provide enumerations.



TINE Studio News

■ Instant Client plots

○ Y vs. X: some salient points

■ X axis not always given !

- *equidistant histograms*, only *increment & offset* given, etc. (start at X=0 and go to X=Number of points.)

■ Some doublet data types (**CF_FLTFLT**, **CF_DBLDBL**, **CF_FLTINT**) assume primary value = Y and secondary value = X

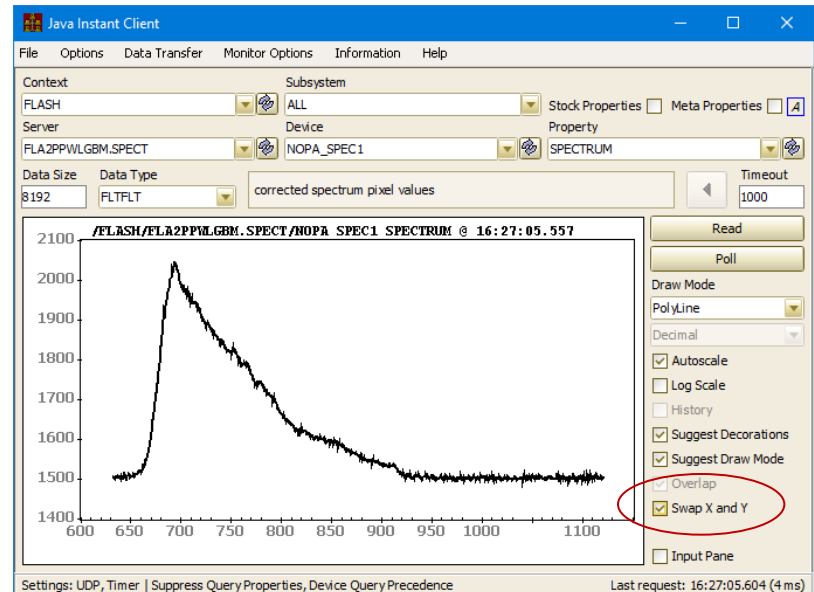
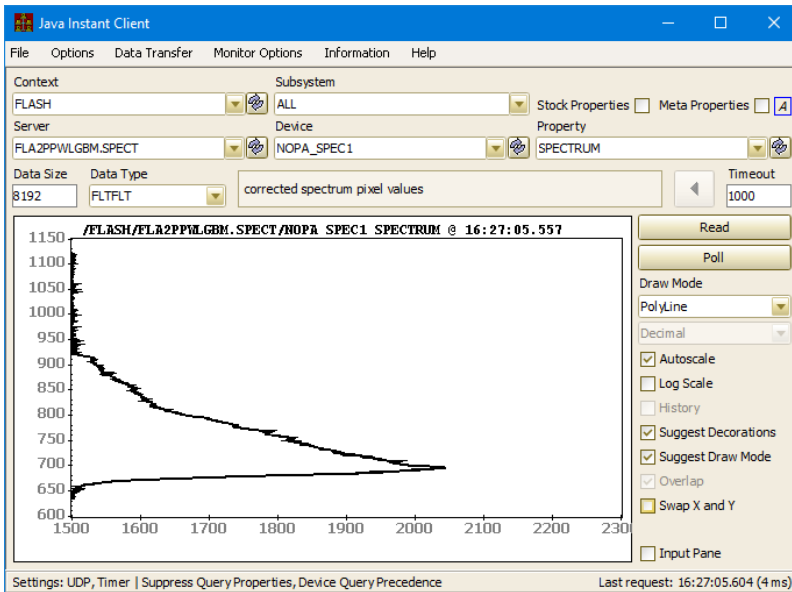
- **CF_DBLDBL** is equivalent to **CF_DBLTIME** (and you want *time* on the X axis in a trend plot!).

■ BUT e.g. **CF_FLTFLT** maps to DATA_XY

- And 'XY' kind of rolls off your tongue when you think of point coordinates.

TINE Studio News

Instant Client : new Swap X and Y feature.



TINE Studio News

Archive Viewer now offers formulae:

The screenshot displays the TINE Studio Archive Viewer interface. A 'Merge Channels' dialog box is open in the foreground, showing 'Available Channels' (A: Energy, B: CurDC) and a text input field containing the formula A^2 / B . The background shows a data plot with multiple traces (blue, green, red) and a table of system parameters.

Merge Channels Dialog:

- Available Channels: A: Energy, B: CurDC
- Enter expression using above expressions (e.g. A * B - C): A^2 / B
- Buttons: OK, Cancel

Main Interface:

- Time: Wed 07. Oct 2020 11:33:17.513 CEST UTC: 1602063197
- Live: System:
- Time Span: 25 Hours (Oct 06/16h to Oct 07/17h)
- Selected Trace: A^2 / B
- Chart Scale: Lin
- Chart Options: Show Grid, Best Scale, Show Point Marker
- Table Options: Show Tolerance, Show Point Marker
- Bits Representation: Hexadecimal
- Buttons: Invert Display, Refresh All, Merge, Remove Selected, Remove All, History Mode, Live Mode, Pause Live

System Status Table:

Status	Property [Device]	Value	Description	Log
<input checked="" type="checkbox"/>	Energy	6.08 GeV	Magnet Energy	<input type="checkbox"/>
<input checked="" type="checkbox"/>	CurDC - 0.0	100.73 mA	Beam Current PETRA	<input type="checkbox"/>
<input checked="" type="checkbox"/>	TauDC	1.89 hr	Beam Lifetime	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Normal A^2 / B	0.37	Merged Channel	<input type="checkbox"/>

16:43:12: Channel added.

TINE RESTful news

- **REST API** modernized

- now works with Java 9 and higher
- many new features
- put **TINE_Restful.war** in your tomcat's *webapps* directory and you're off to the races ...
- See <https://adweb.desy.de/mcs/tine/tineRESTAPI.html> for details ...

[TINE RESTful news]

- It's demo time (a lead-in into ionic applications).