

## inst-bpm - Task #9635

Milestone # 9608 (New): Down Converter Test

### Make Synoptic pages for displaying DDC data

07/15/2015 01:33 PM - John Diamond

<b>Status:</b>	Feedback	<b>Start date:</b>	07/15/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	John Diamond	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	8.00 hours
<b>Target version:</b>		<b>Spent time:</b>	5.00 hours
<b>Description</b>			
A synoptic page that can plot DDC I & Q, Magnitude and position data.			

#### History

##### #1 - 07/20/2015 03:54 PM - John Diamond

- % Done changed from 0 to 20

Create a Synoptic page for displaying raw buffer devices:

[http://www-bd.fnal.gov/synoptic/display/Work\\_in\\_progress/instbpm\\_display\\_raw?m=Z&loc=BOO&off=0&len=15999](http://www-bd.fnal.gov/synoptic/display/Work_in_progress/instbpm_display_raw?m=Z&loc=BOO&off=0&len=15999)

Parameters:

- m = machine portion of ACNET device (e.g. Z for test devices)
- loc = Three digit BPM location (e.g. BOO for test devices)
- off = Buffer offset
- len = Buffer length

##### #2 - 07/20/2015 09:16 PM - John Diamond

Created a Synoptic display for turn-by-turn data:

[http://www-bd.fnal.gov/synoptic/display/Work\\_in\\_progress/instbpm\\_display\\_tbt](http://www-bd.fnal.gov/synoptic/display/Work_in_progress/instbpm_display_tbt)

Parameters:

- m - ACNET machine character (e.g. Z for test devices)
- d - BPM Direction (H for horizontal, V for vertical)
- loc - BPM location (e.g. BOO for first test BPM)

##### #3 - 07/20/2015 09:17 PM - John Diamond

- % Done changed from 20 to 40

##### #4 - 07/21/2015 09:22 AM - John Diamond

Turned on auto-scaling for plots.

Fixed the array lengths for data sources.

Trying for figure out why the I data and Magnitude data devices won't return more than 100 points.

##### #5 - 07/21/2015 09:42 AM - John Diamond

- Status changed from New to Closed

- % Done changed from 40 to 100

Trying for figure out why the I data and Magnitude data devices won't return more than 100 points.

Fixed - see [#9611](#). TBT display seems to be working now.

##### #6 - 07/21/2015 04:54 PM - John Diamond

- Status changed from Closed to Feedback

Except that Synoptic attempts to divide the 8000 sample plot into four reads which is not compatible with our use of the offset as a page index. See [#9611](#). On-hold until we hear from Linden.

**#7 - 07/22/2015 10:56 AM - John Diamond**

Added the BPM direction ('d') parameter to the raw display.  
Removed the off and len parameters and hard-coded the display to show 16000 raw samples.

**#8 - 07/22/2015 01:14 PM - John Diamond**

Added a check of an offset out-of-bounds to the TBT devices. Returns MOOC\_BAD\_OFFSET for anything over 2.