Using XY Plot to show motion of a program in Prog0
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* This Application note assumes a program that commands coordinated motion is downloaded to the ACR controller.

Set Up X Y plot as follows:

X and Y axis as X Axis Current position and Y axis Current position respectively
Disable Channel 2

**Note:** This is raw encoder counts so set the scale to an appropriate range for commanded motion (This is typically in the .2M - 1M range)

![ACR-View with XY Plot window opened](image)

Sampling as below:

Use “On Board” sampling and select a sample rate appropriate to the time duration of the moves commanded in Prog0 (20-100 ms)

Select a trigger source, use Master Flags | Primary Master Flags | Primary Master0 Flags.
Select “Bit 516  IN MOTION”
Figure 2 Selecting pertinent sampling settings

Click the “Motion” button and de-select “Download Commands to Prog0”

Figure 3 Ensure the “Motion” section is either ignored or cleared of code

Click "Run" on XY plot screen to arm this screen
Open the “Terminal Emulator” screen & run Prog0 user program
(Issue a RUN or LRUN command from P00> prompt)

Figure 4   XY Plot displaying coordinated motion