

[03] USE OPI TOOLS

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BEFORE STARTING

Here we study two OPI tools: **MEDM** and **StripTool**. Both tools have been used in many EPICS-based control systems since '90es. We can use them even now.

Before starting lessons, start “ubuntu Terminal”s. Go to the work directory you created in the previous slot.

LESSON 1: RUN MEDM


1. Copy files (demo_2017a.adl and epicslogo101.gif), from “/opt/src/ Demo2017/” to the work directory.
2. Execute a command “**medm demo_2017.adl**”. MEDM starts in Edit-mode. Switch the mode to Execute-mode (see Fig.1). Does it looks like Fig.2 (left) ?
3. All the PVs in the MEDM screen are running in the coordinator’s IOC. Disconnect the LAN cable. What happens ?
4. Click buttons on and off. Drag a bar up and down. Be aware that other participants also trying same actions.
5. Try “caput” a value to a SOFTAO PV (use your group-number’s channel). Confirm that the value appears in a MEDM screen.
6. Stop MEDM. Go to Edit-mode, then “File->Exit”.

LESSON 2: EDIT IN MEDM

7. In Edit-mode, execute “File->SaveAs” to make another scrach file for study. Check the filename in the title-bar.
8. Do you have a 3-button mouse ? Drag a widget with middle button. Try to change position of the EPICS logo.
9. Click an EPICS logo. New screen appears. To the box “width”, put a value “20”, then **press “Enter”**.
10. Click “Palettes” (see Fig.1). You can see available widgets. Try to add some graphics objects.
11. Do not forget to save. “File->Save” to save your changes.

Due to the time limit, we do not go further. For more studies, refer other references. MEDM has many other functions.

LESSON 3: STRIPTOOL

1. Try a command “StripTool” to start. Please pay attention to capital and small letters.
2. Enter a PV name (a temperature PV is good) in a “Plot New Signal” entry. Then press “Enter”. Can you see a graph as in Fig.4 ?
3. Click an icon  one by one. What happens ?
4. Put other PV names to show multiple trend graph in a screen. Try to modify Y-axis.

REF. SCREENSHOTS

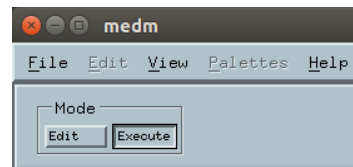


Figure 1: Switch modes: Edit and Execute

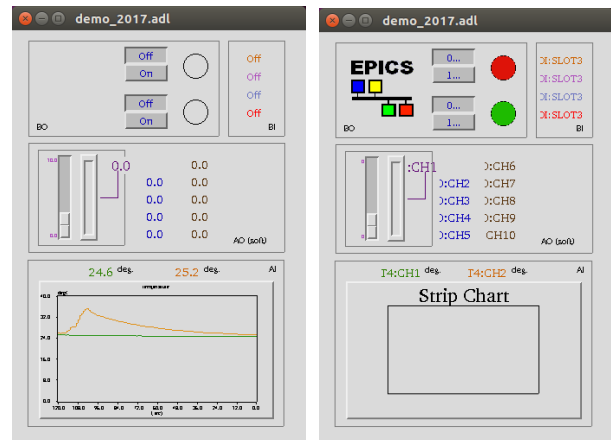


Figure 2: medm in Execute-mode and in Edit-mode

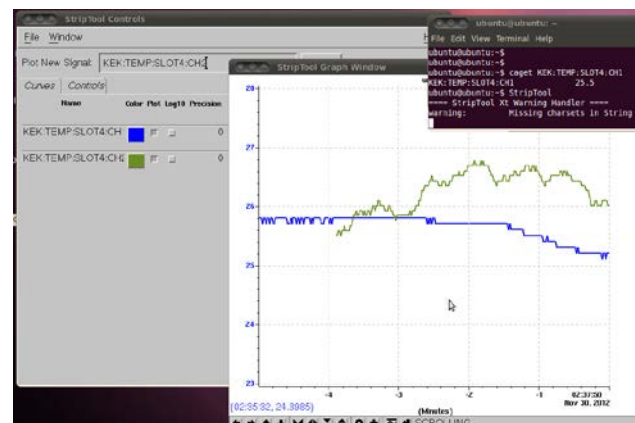


Figure 3: StripTool sample

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