

Lab Exercise – Start Trend on Demand

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This module supports **TotalPlant** Solution (TPS) system network.

TPS is the evolution of TDC 3000^X.

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Lab Exercise

Introduction

In a busy GUS display that contains process data as well as a trend OLE object, the trend can be requested to start upon operator demand, allowing the rest of the display to update first. Otherwise, the GUS display is forced to update all of its display parameters on startup. This performant technique is shown in the following lab exercise, which is based upon a real world example. At the end of this lab exercise, you will have a scripting technique that you can use in your GUS displays that contain both process data and trend objects.

Objectives

At the end of this lab exercise, you will be able to do the following:

- Insert a trend control that starts upon operator demand.
- Script the trend OLE object in response to an operator click.

Design Criteria

The code for the trend OLE object follows. Insert tagnames in place of those shown in the code example with tagnames from your database partition.

```
' Set all traces on Trend OLE object.
' Start trend on mouse click.

private      bHasStarted as boolean

Sub Click()
    if (not bHasStarted) then
        bHasStarted = TRUE
        me.BackgroundColor = TDC_BLACK
        trace1 = me.AddTrace("FC_01251.PV", Makecolor(54,191,0)) 'green
        me.YRangeHigh(trace1) = 100
        me.YRangeLow(trace1) = 0
        me.DataSource(trace1) = 1
        trace2 = me.AddTrace("FC_01252.PV ", Makecolor(253,253,0)) 'yellow
        me.YRangeHigh(trace2) = 100
        me.YRangeLow(trace2) = 0
        me.DataSource(trace2) = 1
        trace3 = me.AddTrace("FC_01253.PV ", Makecolor(255,0,0)) 'red
        me.YRangeHigh(trace3) = 100
        me.YRangeLow(trace3) = 0
        me.DataSource(trace3) = 1
    end if
End Sub
```

Lab Prerequisites

Lab prerequisites are the following:

- GUS Display Builder
- Native Window is running
- Three off process LCN control points

Lab Procedure

Step	Action
1.	Open a new display from the GUS Display Builder.
2.	Insert an OLE Trend Control object
3.	Add the script as shown in the Design Criteria section.
4.	Syntax check the display.
5.	Validate the display.
6.	Save the display as trend_demand.pct
7.	Run your trend_demand display
8.	Click on the trend control object. Expected result: The trend starts and updates upon operator demand.

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