ELE339, Electronics I Laboratory

Setting up the Data Acquisition software (Tracer DAQ)

M Tu Wd Folders



Open Instacal



Double-click on **Board# 0...**

📓 InstaCal
File Install Calibrate Test Help
RC Board List
Universal Serial Bus
Board# 0 - USB-1608G (16ec16e)
Ready NUM ///

Setup and click OK

Board Configuration	×
USB-1608G	
Identification Factory Serial No: 16EC16E Identifier:	
No. of Channels: 8 Differential	
Firmware Version: 1.09 FPGA Version: 0.36	
OK Cancel	

Open TracerDaq and double-click on Strip Chart



Left-click Edit

V Strip Cha	art - Default	configuration	1						_	<u> </u>
File Edit	View A	ction Help								
		Stop'	d Lo	gger C	ff	PLY	SET	TIMEBA 1.00s	ASE ▲▼ A	
10.0										
٩				• • • •				· · ·	< C	:н0
-10.0	DAQ									
10.0			· · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						
VRS V			•	•	- - - - - - - - -	• • • • •	· · · ·	· · · · · · · · · · · · · · · · · · ·		:н1
-10.0	DAQ 000d,	00:00): 00.00	0			00d, (00:00:0	0.000	
Trigger Mode	None								0.00%	

Click Edit and Display Settings

Display Setting	8	Display View
Selection time	5.0 +	Color scheme Custom
Timebase	To20sPerDiv 💌	Contrast 0.55
Display format	TimeSpan 💌	Background Color
	Enable hotspot	Foreground Color

11:58:19 AM 8/30/2012

Click Lanes

11:47:14 AM 8/30/2012

Number of Lanes 2	Lane Settings
.aneO .ane1	Label Vd
	Upper limit 10.00
	Lower limit -10.00
	Scale mode Fixed

Click Lane 1

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V Strip Chart Display Settings		<u>? ×</u>
General Lanes Markers		
Lanes Number of Lanes 2	Lane Settings	
Lane0	Label VRs	
	Upper limit 10.00	E
	Lower limit -10.00	E
	Scale mode Fixed	J
		Cancel
		Cancer

Click Markers Uncheck Enabled

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eneral Lanes Markers		
Marker0 Marker1	Color Orientation	
	OK Can	cel

Click $\underline{Marker 1}$ Uncheck $\underline{Enabled}$ and \underline{OK}

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General Lanes Markers 	Marker Settings
Marker0	This sets the color of the selected marker(
Marker1	Color
	Orientation Vertical
1	
	OK Cancel

Click Edit and DAQ Hardware settings

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Channel	DAQ Device		DAQ Channel	1	DAQ Range/Mode	
CHANNELO	Dev0 USB-1608G	Ŧ	AiO	•	+/-10V	Ŧ
CHANNEL1	Dev0 USB-1608G	Ŧ	Ai1	•	+/-10V	Ŧ
	5 1					
	DAQ Selection Filter	12.0				
SELECT	All Supported	Ŧ				

Right-click CHANNEL1

Channel	DAQ	Device		DAQ Channel	<u>Î.</u>	DAQ Range/Mode	1
CHANNELO	Dev0	USB-1608G	•	AiO	•	+/-10V	Ŧ
CHANNEL1	Devo	USB-1608G	•	Ai1	•	+/-10V	Ŧ
	19	Undo	Ctr	-1+Z			
	0	Redo	Ctr	-1+Y			-
		AutoFill Selecti	on	Ins			
	AutoFill All shift	Shift+	-Ins	-		-	
		Number Of Channe	mber Of Channels Ctrl+N		-		1
SELECT	X	Clear Selection		Del			
		Clear All Shift+Del					

click **<u>Number of Channels</u>** Set to $\underline{2}$ and click <u>OK</u>

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1.00	7
DAQ Hardware Settings	
Daq Channels HW Trigger	
Channel DAQ Device DAQ Channel DAQ Range/Mode	CH0
VCHANNELO DeVO USB-1608G ▼ AIO ▼ +/-10V ▼	-
V CHANNEL1 Devo U Number Of Channels	-
0.00 1 10.0 0K Cancel	
DAQ Selection Filter V SELECT All supported	 CH1
OK Cancel	
1.00 DAQ 000d, 00:00:00.000 000d, 00:00:00.000	
0.009	6
Trigger Mode: None	

Click Edit and Strip Chart Cannel Settings

Channels Number of channels 2	Settings S	caling	
CHANNEL0 CHANNEL1	Name Units Lane Plot style	CHANNELO V Lane0 Solid Channel visible Color	
		OK Cance	el

11:52:09 AM 8/30/2012

Click $\underline{CHANNEL1}$ and set \underline{Lane} to $\underline{Lane1}$ and click \underline{OK}

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CHANNELO CHANNEL 1	Name CHANNEL1
	Units V
	Lane Lane1
	Channel visible
	Color

Click \underline{Edit} and $\underline{Scan Rate/Trigger settings}$ setup and \underline{OK}

rigger Select	Scan
None Internal External Time Interval	Scan Rate Scan rate (Hz) 5 Acquire data for Days Hours Minutes Seconds 0 1 20 1 0 1
	OK Cance

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Click **<u>Edit</u>** and **<u>Display Settings</u>** and <u>Lanes</u>.

Number of Lanes 2	Lane Settings
ane0 ane1	Label Vd
	Upper limit 1.00
	Lower limit 0
	Scale mode Fixed

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Click Lane1

8:09:56 PM 8/30/2012

anes Number of Lanes 2	Lane Settings
LaneO Lane1	Label VRs
	Upper limit 10.00
	Lower limit 0
	Scale mode Fixed