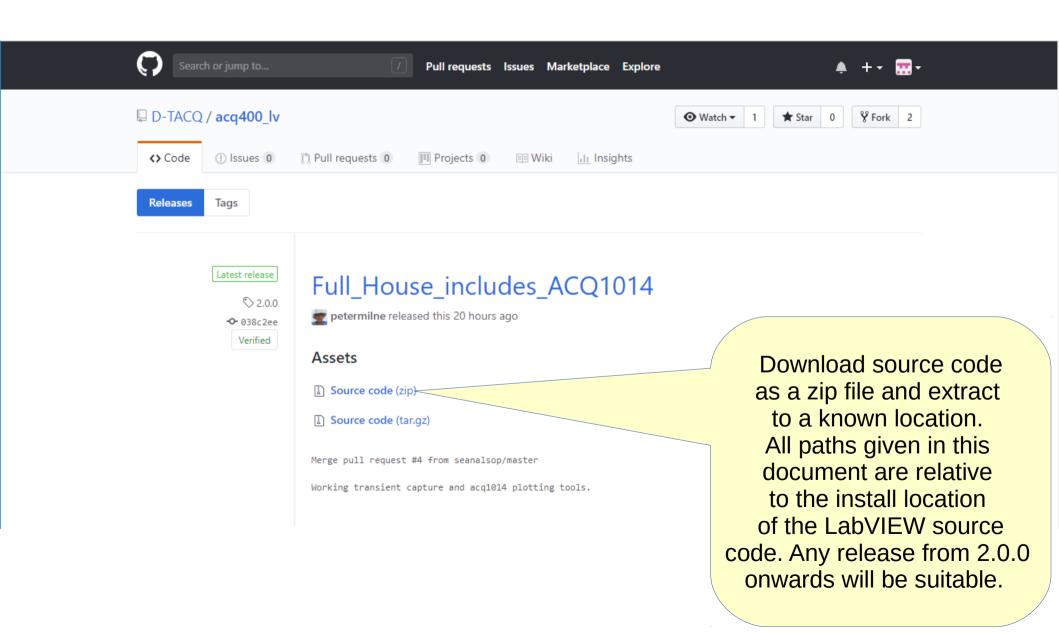
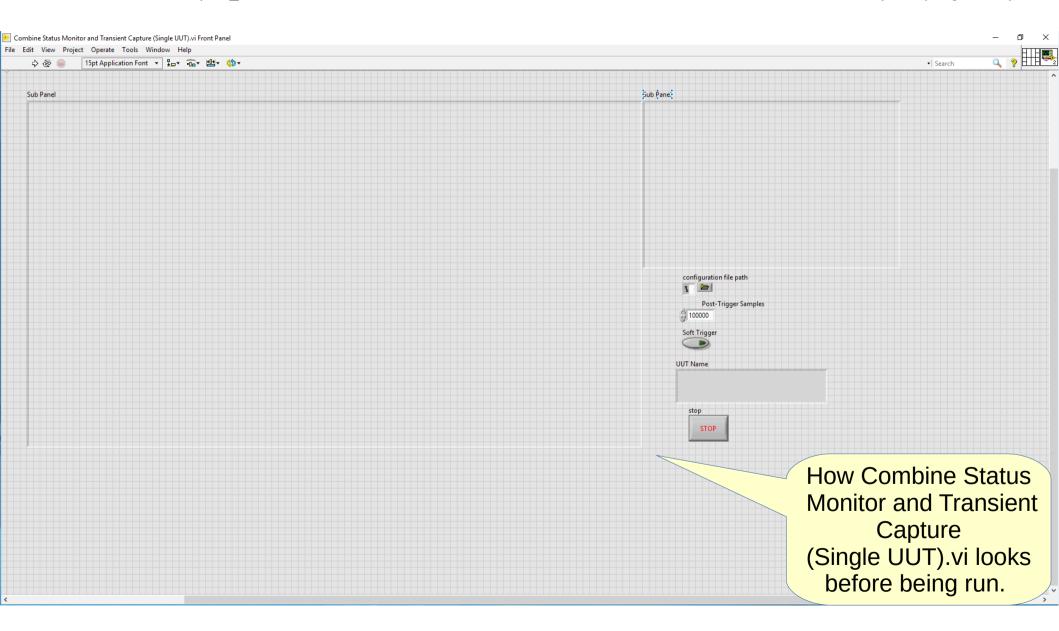
#### LabVIEW Guide - Installation Instructions

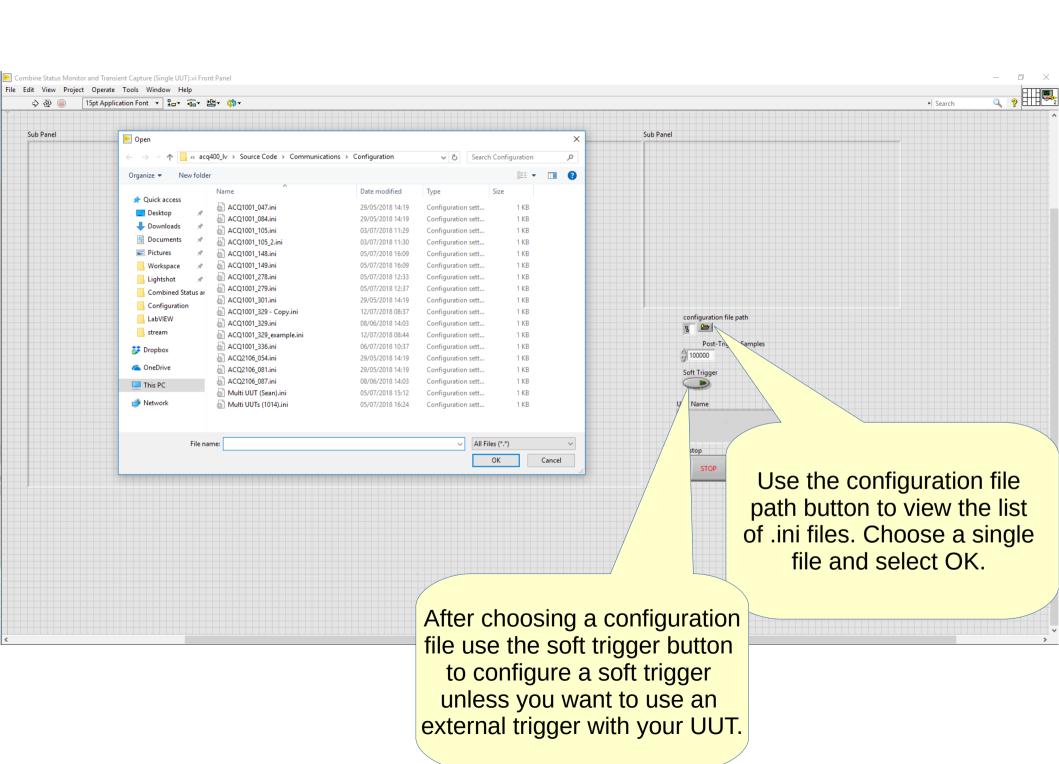
LabVIEW source available from: https://github.com/D-TACQ/acq400 lv/releases/tag/2.0.0



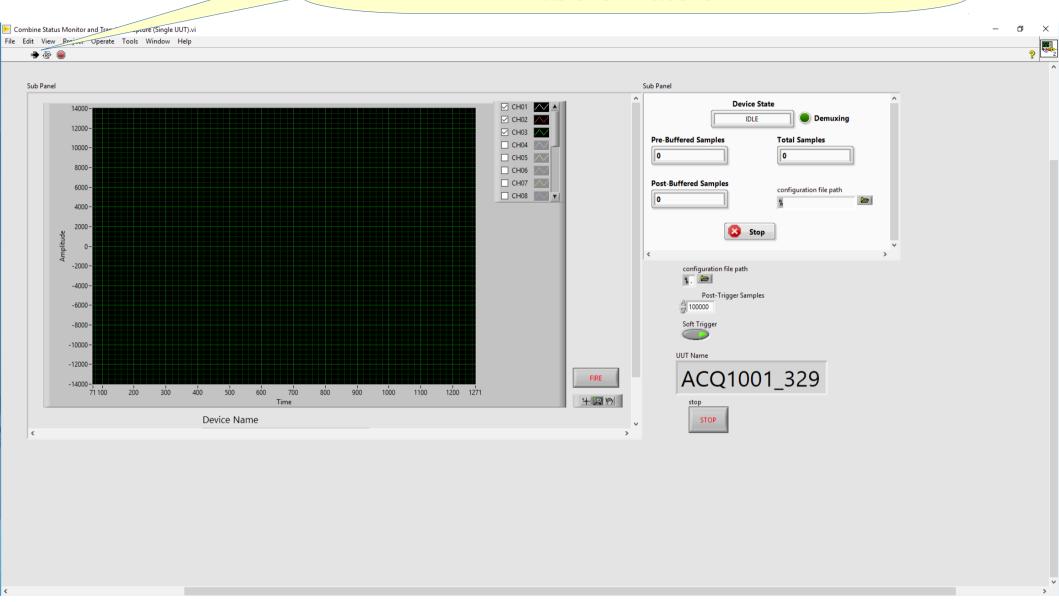
## LabVIEW Guide – Transient capture

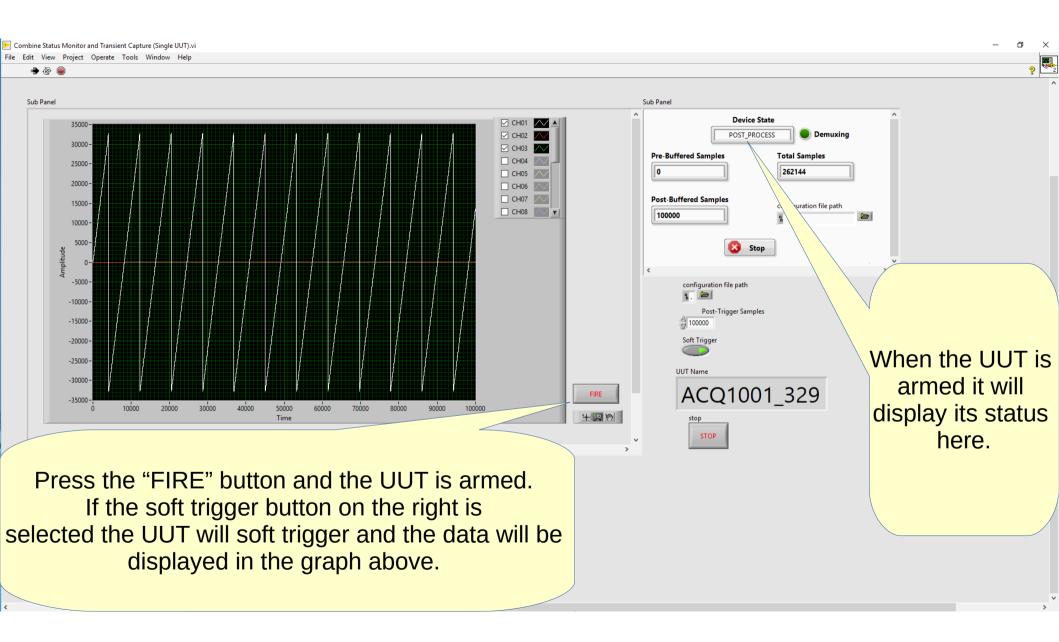
Vi available from: acq400\_lv\Source Code\Combined Status and Transient\Combine Status Monitor and Transient Capture (Single UUT).vi





Press the "run vi" button in the top left of the screen and the graph and status monitor will be ready to display data as shown above.

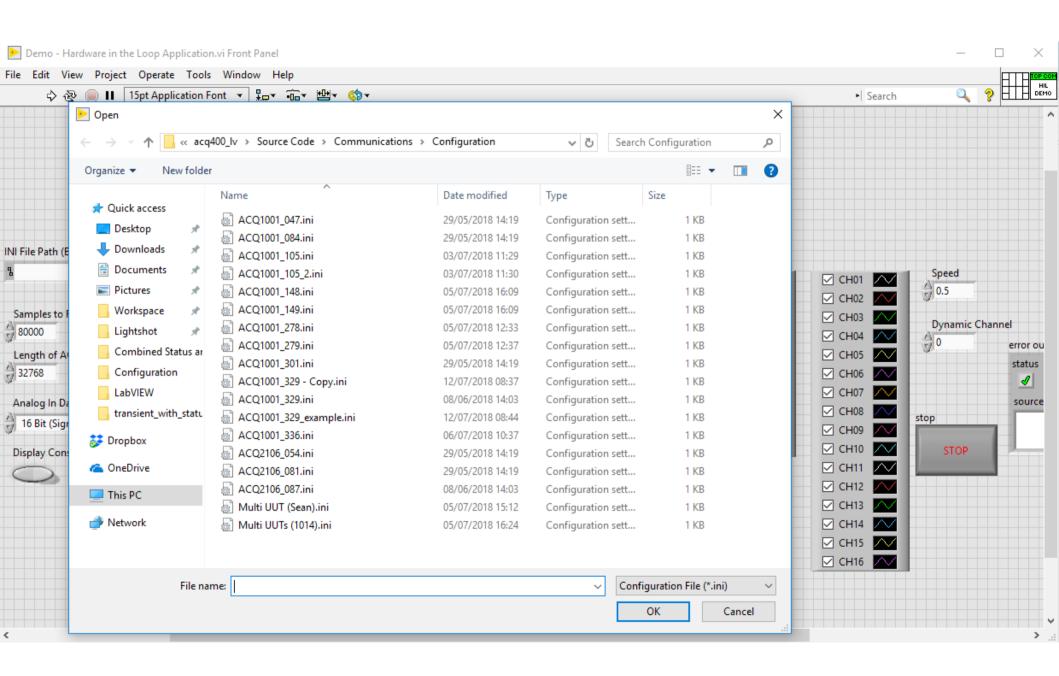




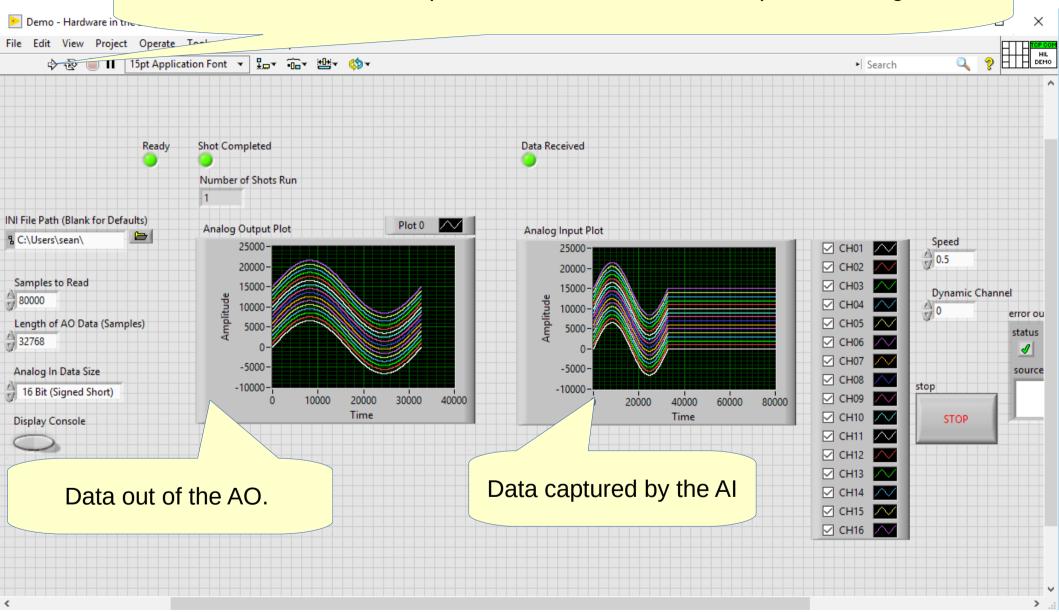
# LabVIEW Guide – Hardware in the Loop

Vi available from: acq400\_lv\Source Code\Hardware in the Loop (Advanced Demo)\Demo - Hardware in the Loop Application.vi

How the vi looks before it is run. Click the INI file path button and choose a single file for the HIL test. File **~**□• ► Search Data Received shot Completed Number of Shots Run INI File Path (Blank for Defaults Analog Output Plot Analog Input Plot Speed 25000 40000 ✓ CH01 0.5 ✓ CH02 30000 -20000-Samples to Read 20000-✓ CH03 15000 -Dynamic Channel 30000 10000 -✓ CH04 10000 error ou Length of AO Data (Samples) ✓ CH05 5000status -10000-✓ CH06 0--20000 -✓ CH07 -5000-Analog In Data Size -30000source ✓ CH08 stop -10000 -40000-16 Bit (Signed Short) ✓ CH09 10000 20000 30000 40000 20000 40000 60000 80000 Time Time ✓ CH10 Display Console ✓ CH11 √ CH12 ✓ CH13 ✓ CH14 ✓ CH15 ✓ CH16

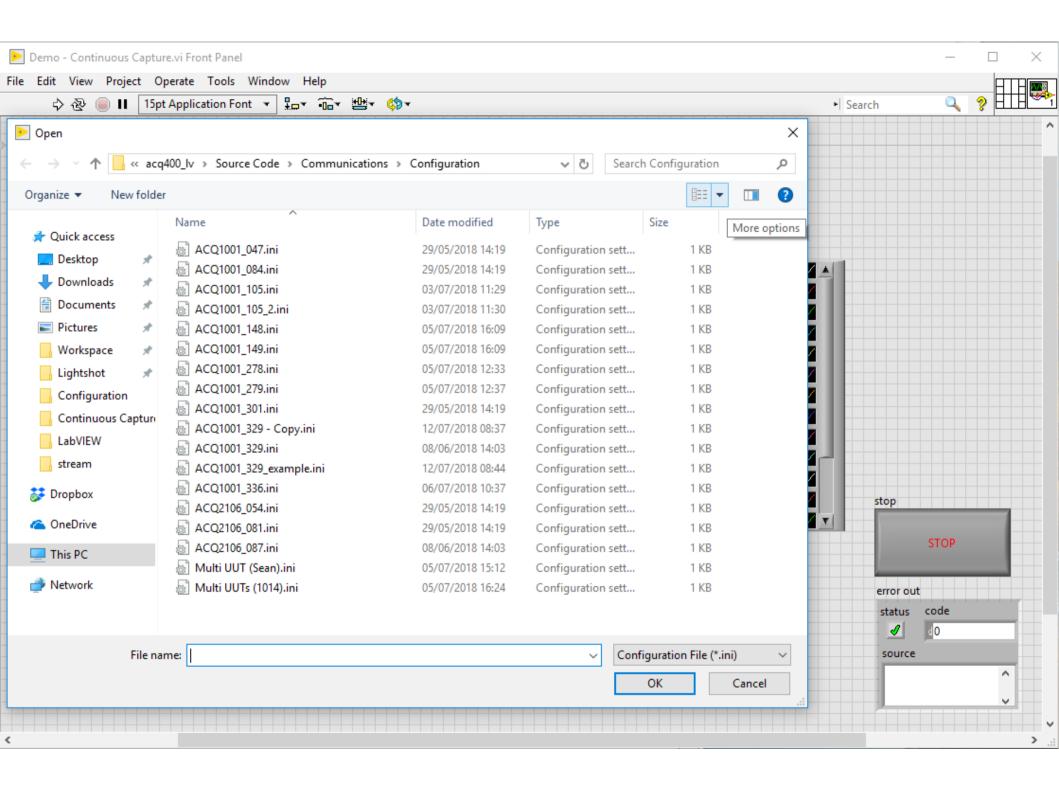


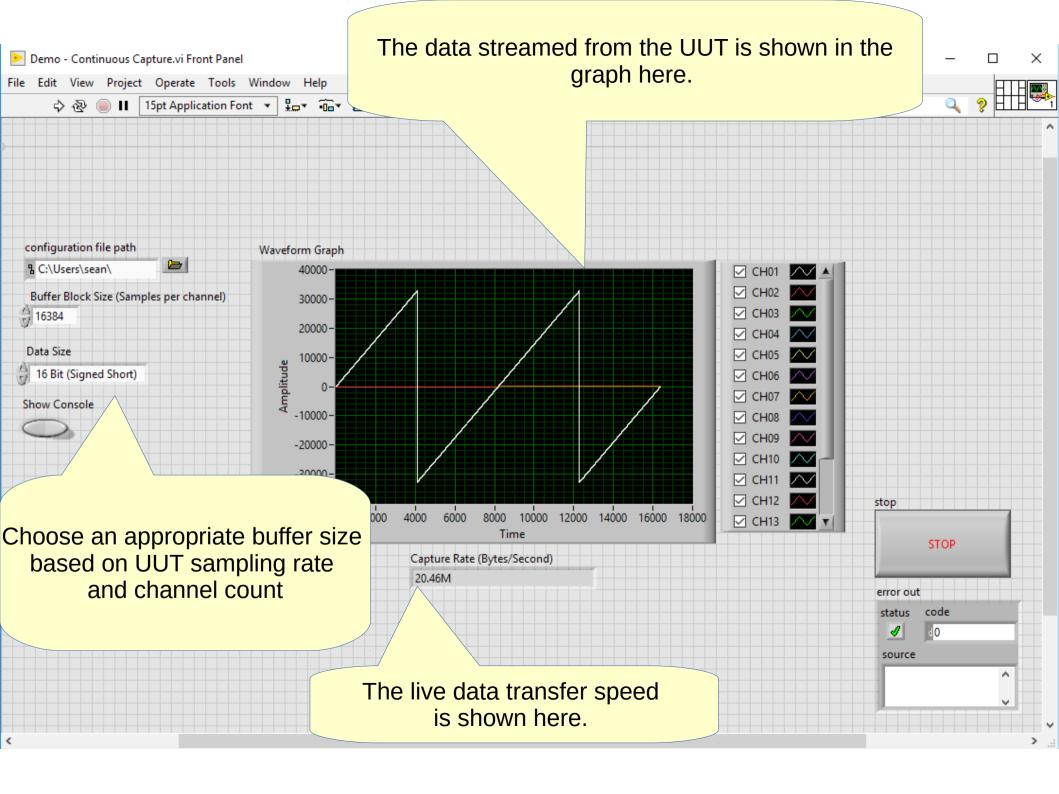
If the default settings are okay for the hardware you are using then click the run button in the top left of the window and the loop test will begin.

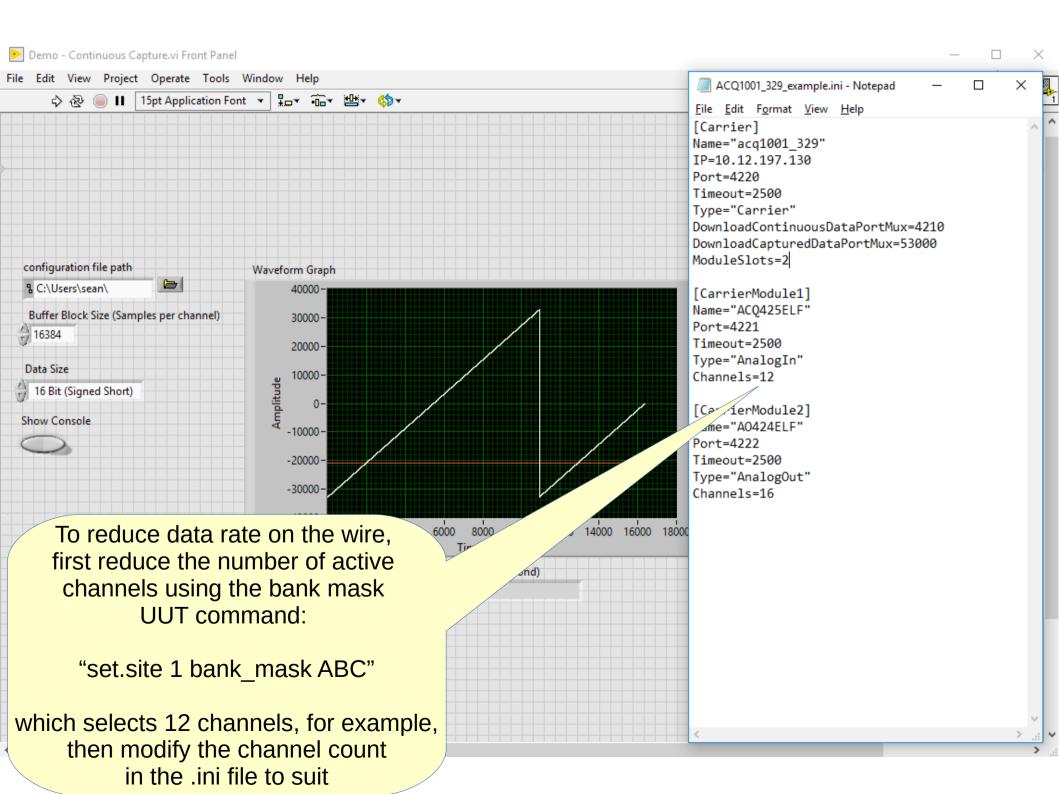


### LabVIEW Guide – Streaming data

Vi available from: acq400 lv\Source Code\Continuous Capture (Advanced Demo)\Demo - Continuous Capture.vi Demo - Continuous Capture.vi Front Panel Х Edit View Project Operate Tools Window Help Click the configuration file path button and 15pt Application Font ▼ <del>}</del>-- ••-choose a single ini file. configuration file path Waveform Graph 40000-Buffer Block Size (Samples per channel) 30000-256 20000-Data Size 10000 -Amplitude 16 Bit (Signed Short) Show Console -10000--20000 --30000 -✓ CH11 / ✓ ✓ CH12 stop -40000-4000 6000 8000 10000 12000 14000 16000 18000 ✓ CH13 STOP Capture Rate (Bytes/Second) error out code status source



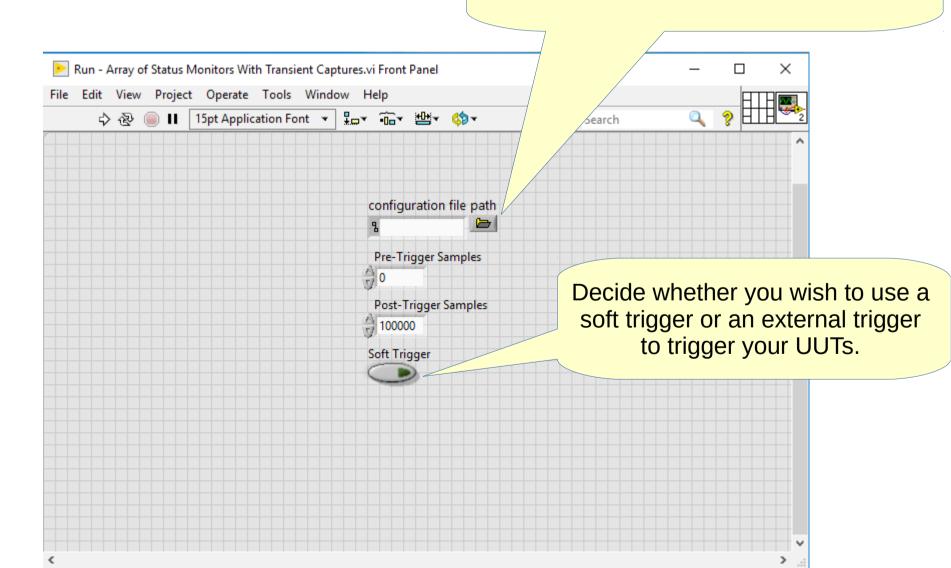


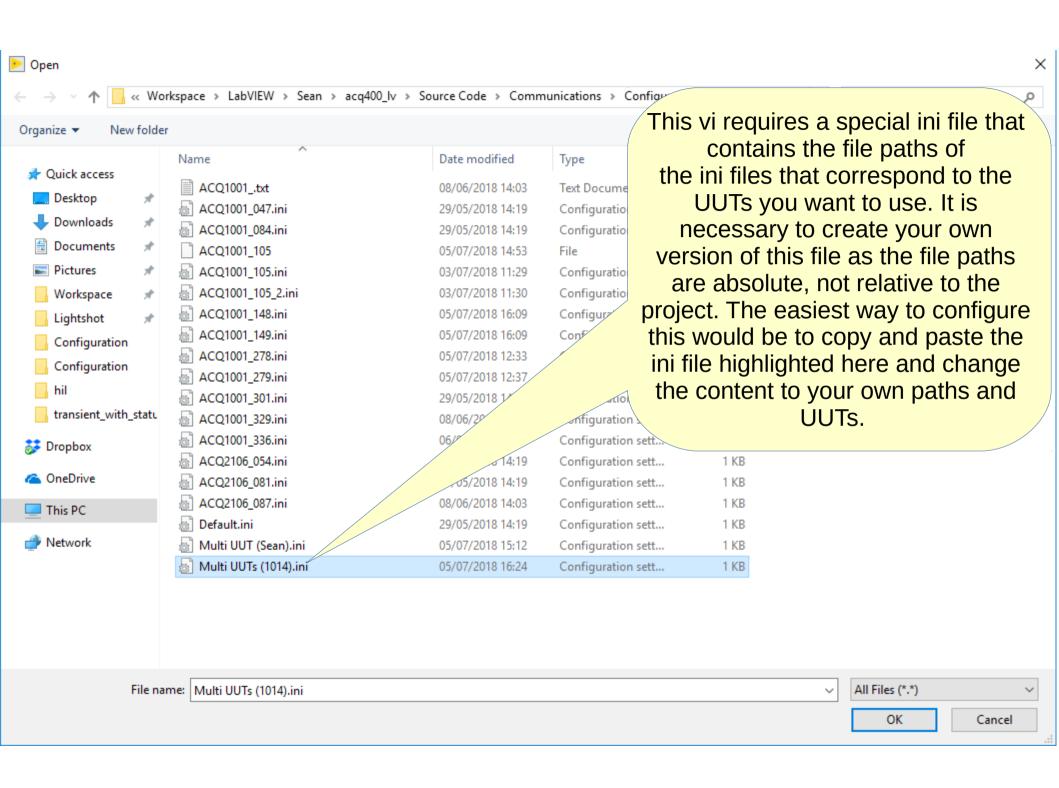


#### LabVIEW Guide – acq1014 Interface

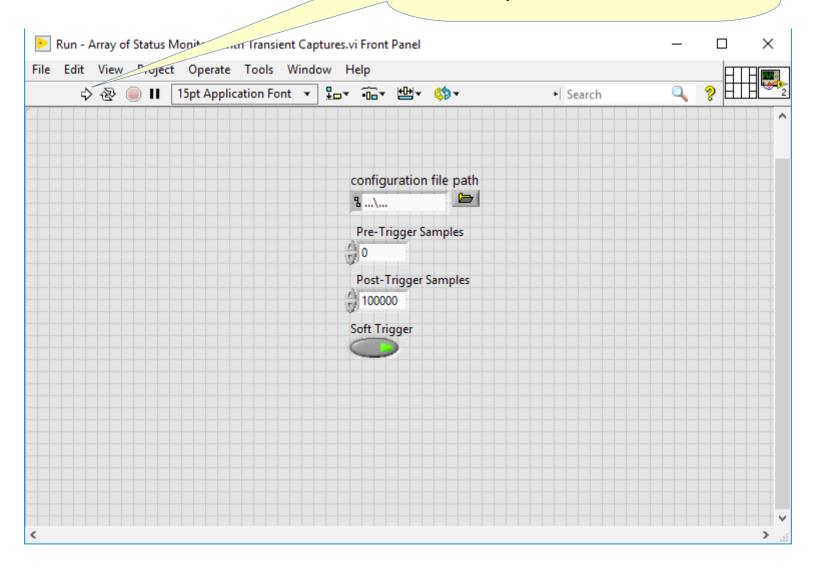
Vi available from: acq400 lv\Source Code\Combined Status and Transient\Run - Array of Status Monitors With Transient Captures.vi

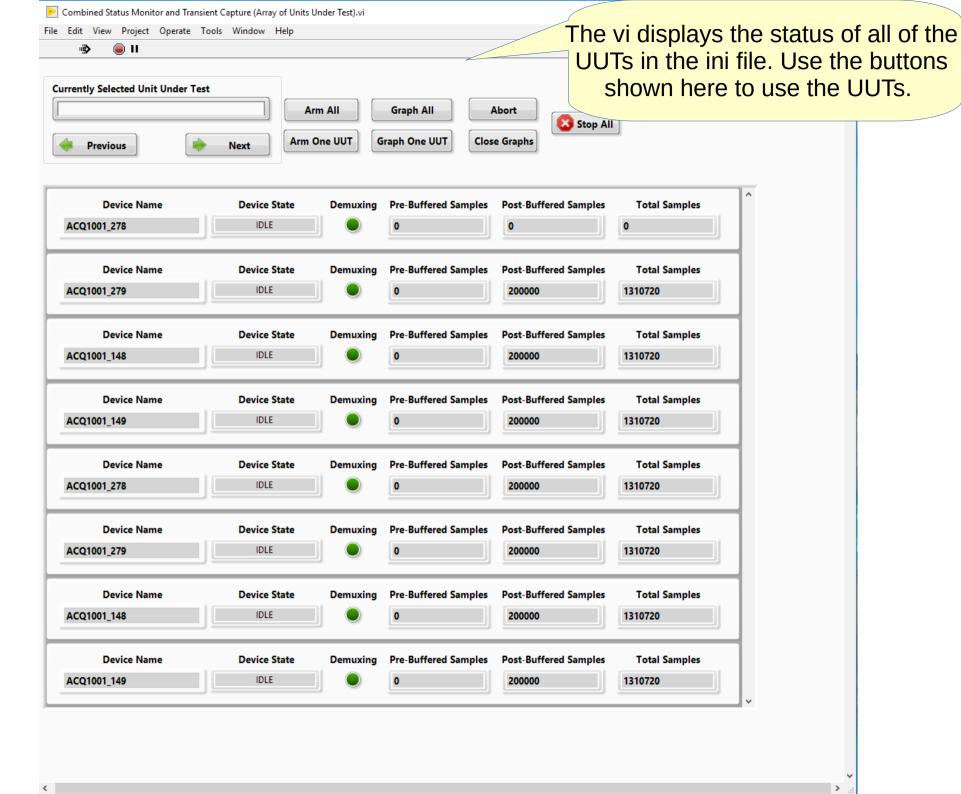
Choose a configuration file using the configuration file path button.

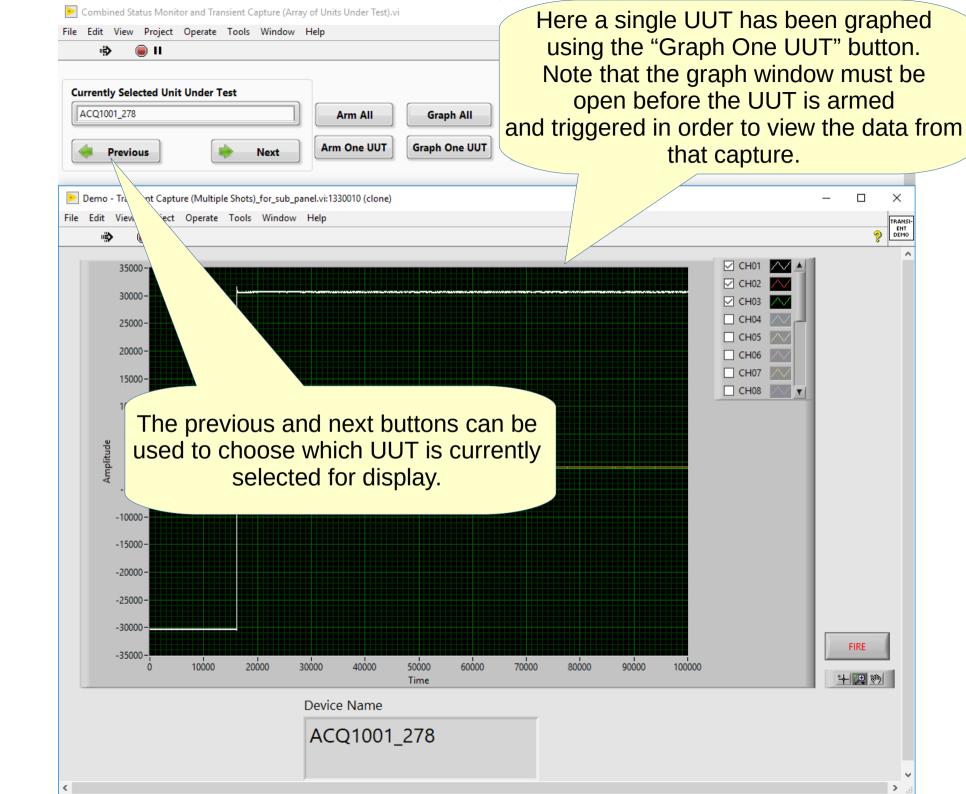


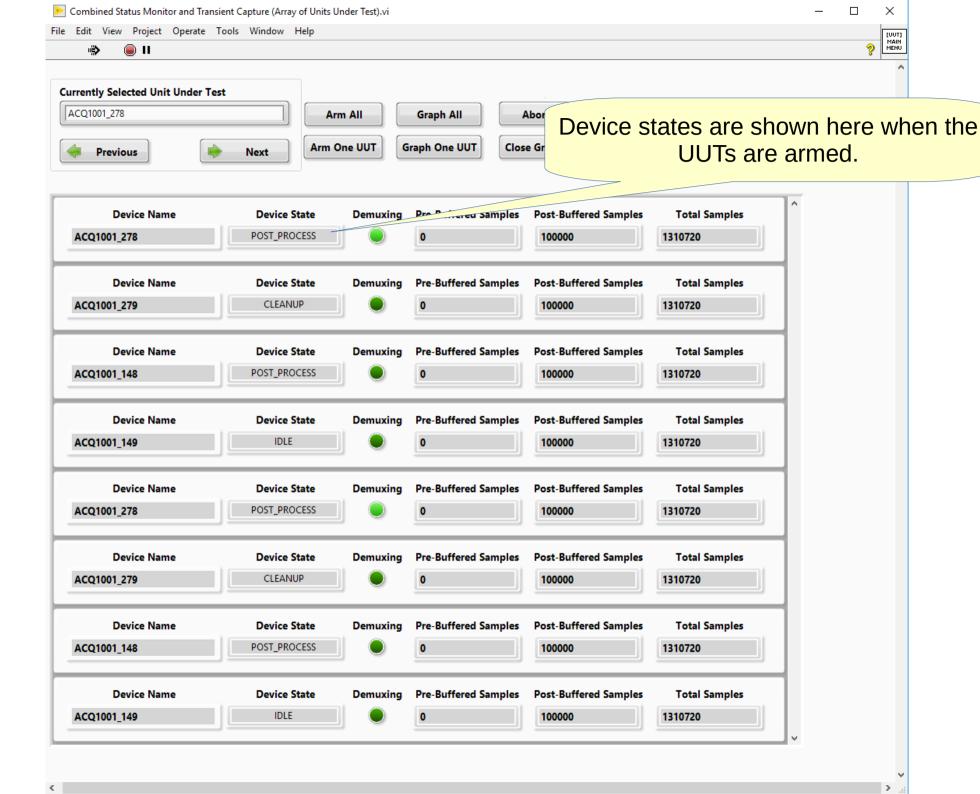


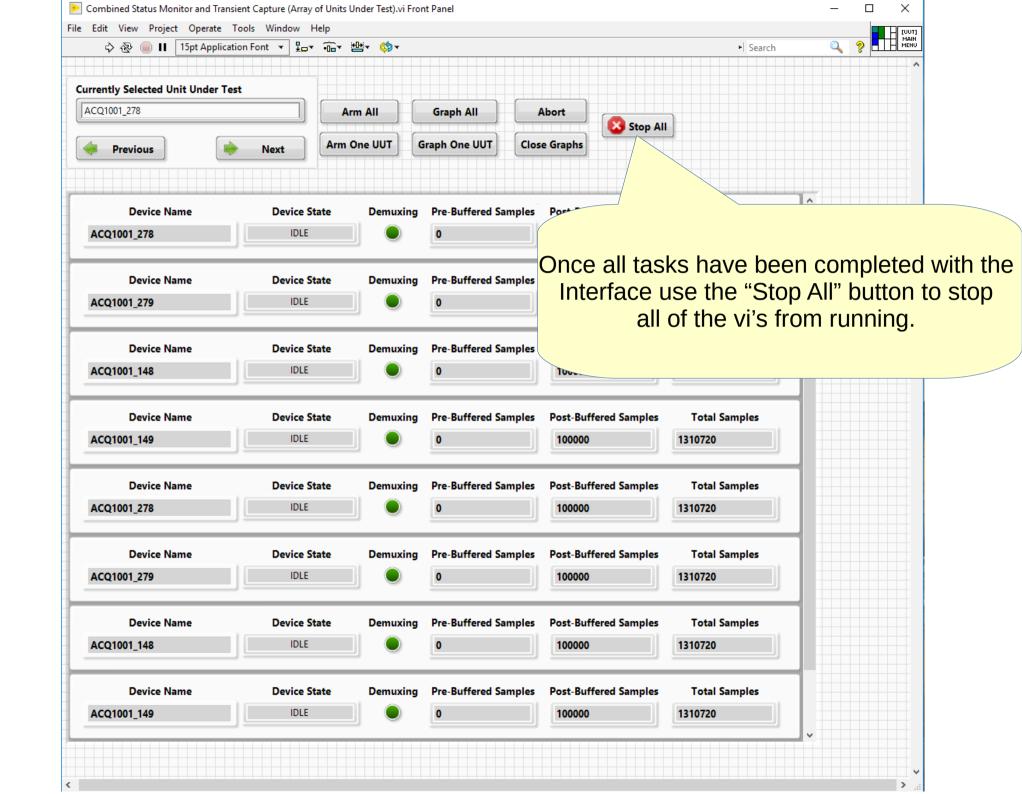
Once the correct ini file has been chosen run the vi from the button in the top left of the window.











#### LabVIEW Guide – ini files

Ini files available from: acq400 lv\Source Code\Communications\Configuration C:\Users\sean\Documents\Workspace\LabVIEW\Sean\acg400\_lv\Source Code\Communications\Configuration\ACQ1001\_105.ini - Notepad++ File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ? 3 🖶 🗎 🖺 🥦 🥱 🧥 | 🖈 🖍 🖒 🖒 🗩 😅 et | 🛗 🦠 | 🤏 🥞 | 🖫 🚍 | 🚍 1 | 👺 🐷 | 🔊 🔊 🕑 💌 🗩 🗎 🕟 ACQ1001\_105.ini Here is the structure of an ini file for use with □ [Carrier] the LabVIEW code. Adjust the values to reflect 2 Name="ACQ1001 105" the correct settings for your UUT. IP address TP="10.12.197.26" 3 must be used instead of DNS name. Unless Port=4220 4 Timeout=2500 otherwise specified the ports should always be Type="Carrier" as stated here. DownloadContinuousDataPortMux=4210 8 DownloadCapturedDataPortMux=53000 9 ModuleSlots=1 10 11 □ [CarrierModule1] 12 Name="ACQ480ELF" 13 Port=4221 14 Timeout=2500 For every module that the UUT has it should 15 Type="AnalogIn" have another section listed as such, using the 16 Channels=8 CarrierModuleX nomenclature 17

MS ini file | length: 269 | lines: 17 | Ln: 17 | Col: 1 | Sel: 0 | 0 | Windows (CR LF) | UTF-8 | INS