At the end of the shot, a waveform record of full rate (10KHz) data is plotted.
CH01=Black
CH02=Red (open circuit)

SNC controller loop on ACQ196
BO00 looped back to AI01 – 1Hz real time data, with a positive feedback

Display a few PV’s (TEMP1, TEMP2, Uptime)

ACQ196 with embedded EPICS IOC
Combined Process Controller and Transient Digitizer

MEDM screen on host computer provides OPI
New Software demonstrates: 10Hz mean update, Trigger

At the end of the shot, a waveform record of full rate (20KHz) data is plotted. CH01=Black, CH02=Red (0V).

SncExample is changing state with a delay of 0.1s. Add 0.1s for AI poll time, and this should be 0.2s high, 0.2s low. Actual 5000 points at 20kHz = 0.25 sec high.

SNC controller loop on ACQ196, BO00 looped back to AI01 – 10 Hz real time data, with a positive feedback.

Much faster loop repetition rate shows up in live trace. This is about as fast as MEDM can go.

New trigger button initiates a hardware trigger, causing transition from PRE- to POST-

ACQ196 CPU load: running 96PV@0.1s: top shows acqioc 45%.