## Collection System Code Flow main.cpp Starts the system Pass resource string identifying all the DAQs to connect to. library DAQ\_Interface.cpp: library.h/.cpp daqBootStrap() Contains all global variables and functions used by all files. (1) (2)Initialize() Begins the collection loop. Initializes the connection to the specified DAQ(s). This is called a session. The variable name that talks to the DAQs in the session is "driver" within the DAQ class. This connects to the DAQ(s) and sets parameters. Any low level parameter settings for collectDaqData() DAQ(s) are and should be done here. (3) Call collection cycle for DAQ(s). Shutdown DAQ.cpp (9)When a signal to shutdown the system is received (currently by pressing 'e' for end on the keyboard), the current data stored in the buffer is (4)written to file and the session with the DAQ(s) is closed. continuousRawData() writeDaqDataToFile() (5)After X number of records are collected, index the data and associate with respective channels and write to file. (8)Collect X number of records. (6)One record represents CSV\_Output.cpp one second. Hence, collect the specified time length of a file to be created. Flush buffer Write to file (7) Release memory used by buffer. The time length of a file is The buffer stores the data that set in the config file in is currently being held in memory seconds. The current default before being written to disk. is 60 seconds or 1 minute.