Controll flow diagram for the initalization of the AVID VLF ground transciever Python program.

Each Red box is a new thread being created

Start

Main.py

DAQ Initalization

DAQConfig.py → __Init__

DAQLogger.py → __Init__

DAQLogClient() → __Init__ → Start()

DAQLogClient()

EngineFlags()

Engine Initalization

RestartCounter()

Engine.py (Init)

DAQLogClient()

GenSceduler() GenGPS() GenDaq() GenPPT()

Scedule() DAQConfig() PostProcessorTree()

OnePPSSignal()

TaskManager.py (init)

Engine.Setparent()

DAQLogClient()

Task Manager Initalization

__Init__ → DAQLogClient()

This client will create one thread for every task.

GenerateModules()

DAQConfig()

If Autostart on — True

False

Engine.Start() & TaskManager.Start()

CMD Loop

For interracting with the program