Point S.2 Clock model Clock model Load config process starts No Set shared variable: Config loaded successfull? Print error message \_exit() done to 1 **Atomic clock filters** Initialize it with values parsed from clock telemetry Yes and config file (if possible) Model age >= 48 Check filters hours? while(!done) No No Acquire clock semaphore lock Yes Yes Is the model Raise alarm? initialized? Get clock telemetry data Enable clock Disable clock disciplining mode disciplining mode if enabled if disabled Release clock semaphore lock Update model Sleep for 1 second Use model to Steer the clock calculate predicted steer value Log telemetry and dump No 24 hours since current model/filter state prediction update? \* clock = atomic clock (CSAC SA.45s) Yes Yes No Logging enabled? Update models steer prediction