

METROLOGY INIT

Begin

Set STATUS to HALT

Initialize PDC

Set STATUS to RESET

STATE_CTRL = INIT?

Initialize PWM &PIO and Enable Cache

Set STATUS to INIT_DSP

Calibrate Phase

Initialize Internal Buffer

Set STATUS to DSP_READY

STATE_CTRL = RESET?

DSP

DSP Filters is Stable?

Metrology

APPLICATION INIT

Begin

Set STATE_CTRL to RESET

STATUS = RESET?

Initialize Metrology Control Registers

Set STATE_CTRL to INIT

STATUS = READY?

Check Metrology Status Registers

Set STATE_CTRL to RUN

STATUS = DSP_RUNNING?

End

NOTE:
In each while loop, STATE_CTRL will be checked.
Once STATE_CTRL is set to RESET, it will take effect at the beginning of the loop.

