**Time Measurement**

currentTimeInMs = (uint32\_t) (DWT->CYCCNT) / (uint32\_t) (240000);

.

.

.

Code

.

.

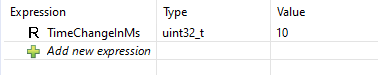
.

lastTimeInMs = (uint32\_t) (DWT->CYCCNT) / (uint32\_t) (240000);

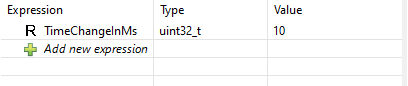
timeChangeInMs = (lastTimeInMs - currentTimeInMs) \* 1;

**Results**

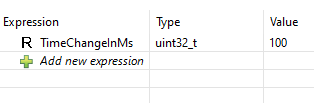
Display Thread



Input Capture Thread



ADC Thread



Main Control Thread

