\*there was a typo in my previous message. Number of subframes is 3

This sequence of commands results in error code 315

1. AWR\_DYNAMICPOWERSAVE\_CONF\_SET\_SB
   1. All 4 devices
   2. Enabled
2. AWR\_RF\_INIT\_CALIBRATION\_CONF\_SB
   1. All 4 devices
   2. All disabled
3. AWR\_RF\_INIT\_SB
   1. MASTER first, then SLAVES
4. Loop over 3 subframes
   1. Loop over 4 devices
      1. AWR\_PROFILE\_CONF\_SET\_SB
5. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_PROFILE\_SELECT)
   1. All 4 devices
   2. Global reset mode = frame (same for all; I’m not going to repeat below)
   3. CHIRP\_PROFILE\_SELECT
   4. Points to an address with all zeros (we aren’t dithering this parameter)
6. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_FREQ\_START\_VAR)
   1. Burst\_lut\_index\_offset = 1
   2. Num\_of\_patterns = 15
   3. Sf\_lut\_index\_offset = 5
   4. Note: we are changing starting frequency burst-to-burst
7. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_FREQ\_SLOPE\_VAR)
   1. Points to address with all zeros (we aren’t dithering this parameter)
8. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_IDLE\_TIME\_VAR)
   1. Burst\_lut\_index\_offset=1
   2. Num\_of\_patterns=15
   3. Sf\_lut\_index\_offset=5
9. AWR\_ADVANCE\_CHIRP\_CONF\_SB (ADC\_START\_TIME\_VAR)
   1. Points to address with all zeros (we aren’t dithering this parameter)
10. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_TX\_EN)
    1. Lut\_reset\_period=9
    2. Lut\_param\_update\_period=1,
    3. Num\_of\_patterns=27,
    4. Sf\_lut\_index\_offset=10
       1. Note: we are very unsure of how to set this parameter. It’s not clear in the documentation if we should put a chirp index or a LUT index here. We set it to 10 because there are two values per index on this parameter. We have experimented setting it to 0, but that doesn’t affect the error code 315 that we get
11. AWR\_ADVANCE\_CHIRP\_CONF\_SB (CHIRP\_BPM\_VAL)
    1. Points to address with all zeros (we aren’t dithering this parameter)
12. AWR\_ADVANCE\_CHIRP\_CONF\_SB (TX0\_PHASE\_SHIFTER, then identical TX1 & TX2)
    1. Lut\_reset\_period=0,
    2. Lut\_param\_update\_period=0,
    3. Burst\_lut\_index\_offset=1,
    4. Num\_of\_patterns=15
    5. Sf\_lut\_index\_offset=5
13. AWR\_ADVANCE\_CHIRP\_GENERIC\_LUT\_LOAD
    1. All 4 devices
14. AWR\_ADVANCED\_FRAME\_CONF
    1. MASTER
    2. Trigger\_select = SW
    3. Subframetrigger = false
    4. Num\_Frames = 0
    5. Num\_subframes = 3
    6. Profile\_idx = 0
       1. Num\_loops\_per\_burst = 256 \* 9 = 2304
       2. Chirp\_repeats = 1
       3. Num\_bursts = 5
       4. Num\_outer\_loops = 1
    7. Profile\_idx=1
       1. Num\_loops\_per\_burst = 128 \* 9 = 1152
       2. Chirp\_repeats = 1
       3. Num\_bursts = 5
       4. Num\_outer\_loops = 1
    8. Profile\_idx = 2
       1. Num\_loops\_per\_burst = 128\*9 = 1152
       2. Chirp\_repeats = 1
       3. Num\_bursts = 5
       4. Num\_outer\_loops = 1
15. AWR\_ADVANCED\_FRAME\_CONF
    1. All slaves
    2. Same as master except for trigger\_select = HW
16. AWR\_DEV\_ADV\_FRAME\_CONFIG\_APPLY\_SB
    1. All 4 devices
    2. Num\_subframes = 3
    3. Subframe 1
       1. Tot\_num\_chirps = 2304 \* 5 = 11520
    4. Subframe 2 & 3
       1. Tot\_num\_chirps = 1152 \* 5 = 5760