



Basic debugging of PLL issues

1. **Use MUXOUT to check R counter and N counter output.**
 - All PLL parts can be programmed to connect the output of the R counter or the N counter to the MUXOUT pin.
 2. **Toggle the powerdown bit and monitoring the current drawn by the part.**
 - A drop in current drawn by the PLL will show the PLL is being programmed.
 3. **Toggle the phase detector polarity and monitoring the output signal on a spectrum analyzer.**
 - A change in output frequency will show the PLL is being programmed.
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- ◆ If 1, 2 and 3 are good, the problem most likely relates to the loop filter.
 - ◆ Use ADIsimPLL to design/debug the loop filter.