**FFT State Machine:**

**IF DATA SENT to FFT = FFT LENGTH**

Zero Pad

**IF INPUT DATA SENT >**

**INPUT DATA LENGTH**

**{DATA=0} ELSE  
DATA TO FFT = INPUT DATA**

**SEND START SIGNAL TO**

**FFT CORE**

**CHECK INPUT FIFO SIZE >**

**FFT LENGTH**

**RESET**

**FFT CORE**

**CONFIGURE**

**INVERSE/FORWARD FFT**