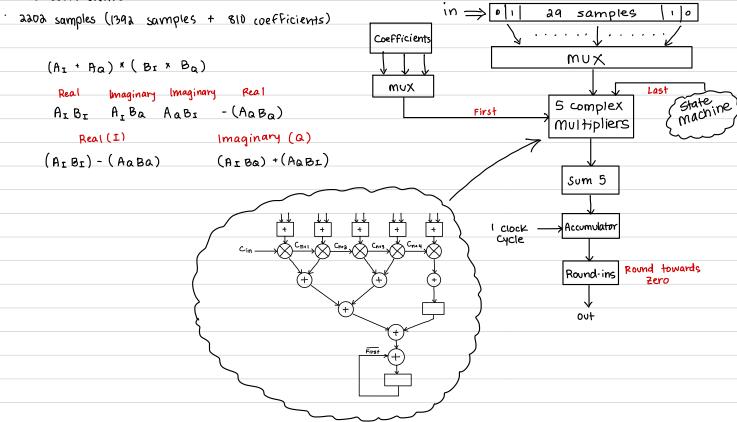


- Project Steps:

- i 29 samples where each sample is 48 bits (24 real and 24 imaginary)
- · 1392 FFs (29 samples * 48 bits)
- · 810 coefficients



Interface:

The design will consist of a single module named fir29. This module may include other modules as desired. The DW02_mult modules will be included in the test bench.

Name	Width	Dir	Comment
Clk	1	In	Rising edge clock
Reset	1	In	Active high reset signal
PushIn	1	In	A sample push signal
StopIn	1	Out	The input cannot accept a sample
SampI	24	In	The real part of the sample in 1.23 format
SampQ	24	In	The imaginary part of the sample in 1.23 format
PushCoef	1	In	Indicates loading a coefficient
CoefAddr	5	In	The coefficient location 0-15 valid
CoefI	27	In	The coefficient Real part 3.24 format
CoefQ	27	In	The coefficient Imaginary part 3.24 format
PushOut	1	Out	Data out of the filter.
FI	32	Out	Real filtered output 8.24 format
FQ	32	Out	Imaginary filtered output 8.24 format

TEAM MEETING NOTES / TO DO:	
ୁ ଧ୍ୟାର <i>ୀ</i> ୫3	
· Share notes	
Create list of questions	
· Create list of possible approaches	
Review together on Monday (4117) @ 230 PM	