New SCD Instruction Scheduling

10 Dec. 2020

Below is the **Scheduling** of PE array to calculate alpha profile of the SCD.

below is the	Scrieduling OI	FL allay to c	alculate alphi	a profile of the	E JCD.	,
Cycle	PE_0	PE_1	PE_2	PE_K	PE_K+1	PE255
32	X_0^T , Y_0^T					
32	MULT	X_1^T , Y_1^T				
160	FFT_32	MULT	X_2^T , Y_2^T			
16	Abs	FFT_32	MULT			
32	$X_0^T Y_1^T$	Abs	FFT_32			
32	MULT	$X_1^T Y_2^T$	Abs			
160	FFT_32	MULT	$X_2^T Y_3^T$			
16	Abs	FFT_32	MULT			
16	Max	Abs	FFT_32			
8	Forward	Max	Abs			
32	$X_0^T Y_2^T$	Forward	Max			
		$X_1^T Y_3^T$	Forward			
			$X_2^T Y_4^T$			
					•••••	$X_{255}^T Y_{255}^T$
						MULT
			$X_2^T Y_{255}^T$			FFT_32
		$X_1^T Y_{255}^T$	MULT			Abs
	$X_0^T Y_{255}^T$	MULT	FFT_32			Max
	MULT	FFT_32	Abs			alpha_255
	FFT_32	Abs	Max			
	Abs	Max	alpha_2			
	Max	alpha_1				
	alpha_0					
	X_0^T, Y_0^T					
	MULT	X_1^T, Y_0^T				