

IN					OUT			NEXT		
srst	valid	source ready	sink ready	last	valid	source take	sink give	selection		
1	-	-	-	-	-	-	-	0		
0	0	-	-	-	0	0	0	selection		
0	1	1	1	0	1	0	1	selection +1		5 states
		0								
		1	0							
		0								
		1	0	1		selection				
		0								
		0	1				0			
		1					1	0		

note:	last <= '1' when (value = VAL_HIGH) else '0';
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