









	Minim	ized	FSM			
Input Sequence	Present State	Next X=0	State X=1	X=0	tput X=1	
Reset 0 1 00 01 10 11	S0 S1 S2 S3 S4 S5 S6 S6 S0) (S1 S2)	S1 S3 S5 S0 S0 S0 S0 (S3 S5	S2 S4 S6 S0 S0 S0 S0 S0	0 0 0 1 0 1 5)	0 0 0 0 0 0 0	
						6
				Sources:	TSR, Katz, Bori	ello, Vahid, Perkowski











































• Reuse of – why cr – fits in r	Output utputs as state eate new function icely with synchro	-based enc bits s for state bits whe phous Mealy imple	Oding en output can serv mentations	e as well		
Inputs	Present State	Next State	Outputs	Outputs		
C TL TS			ST H	F		
0 – –	HG	HG	0 00	10		
- 0 -	HG	HG	0 00	10		
1 1 –	HG	HY	1 00	10		
0	HY	HY	0 01	10		
1	HY	FG	1 01	10		
1 0 –	FG	FG	0 10	00		
0 – –	FG	FY	1 10	00		
- 1 -	FG	FY	1 10	00		
0	FY	FY	0 10	01		
1	FY	HG	1 10	01		
				20		
				28		
			Sources: TSR Kat	z Boriello Vahid Perko		











