

	Present state $y_2 y_1$	Next state		Output $z$
		$w = 0$	$w = 1$	
		$Y_2 Y_1$	$Y_2 Y_1$	
A	00	00	01	0
B	01	00	11	0
C	11	00	11	1
	10	$dd$	$dd$	$d$

**Figure 6.16** Improved state assignment for the state table in Figure 6.4.