

One hot State table

PS ABCDEF	NS							
	DC A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	DC' A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	N1N2' A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	N1'N2 A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	FS1 A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	FS1' A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	FS2 A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺	FS2' A ⁺ B ⁺ C ⁺ D ⁺ E ⁺ F ⁺
S ₀ 000001	000001	000001	000001	000010	000001	000001	000001	000001
S ₁ 000010	000100	000010	000010	000010	000010	000010	000010	000010
S ₂ 000100	000100	000100	000100	000100	000100	000100	001000	000100
S ₃ 001000	001000	001000	010000	001000	001000	001000	001000	001000
S ₄ 010000	100000	010000	010000	010000	010000	010000	010000	010000
S ₅ 100000	100000	100000	100000	100000	000001	100000	100000	100000

$$A^+ = S_4DC + S_5DC + S_5DC' + S_5N1N2' + S_5N1'N2 + S_5FS1' + S_5FS2 + S_5FS2'$$

$$B^+ = S_4DC' + S_3N1N2' + S_4N1N2' + S_4N1'N2 + S_4FS1 + S_4FS1' + S_4FS2 + S_4FS2'$$

$$C^+ = S_3DC' + S_3DC' + S_3N1N2' + S_3FS1 + S_3FS1' + S_2FS2 + S_3FS2 + S_3FS2'$$

$$D^+ = S_1DC + S_2DC + S_2DC' + S_2N1N2' + S_2N1'N2 + S_2FS1 + S_2FS1' + S_2FS2'$$

$$E^+ = S_1DC' + S_1N1N2' + S_1N1'N2 + S_1N1N2' + S_1FS1 + S_1FS1' + S_1FS2 + S_1FS2'$$

$$F^+ = S_0DC + S_0DC' + S_0N1N2' + S_0FS1 + S_5FS1 + S_0FS1' + S_0FS2 + S_0FS2'$$