S3' = P3 P2' P1' P0' + P3' P2 P1 + P3' P2 P0;

S2' = P3' P2 P1' P0' + P3' P2' P1 + P3' P2' P0;

S1' = S3' S2' S1 S0 V2 V1' V0' B1' B0' P2' P1' P0' + S3' S2' S1 S0 V2 V1' V0' B2' P2' P1' P0' + P3 P2' P1' P0' + P3' P1 P0 + P3' P2 P1' P0';

S0' = S3' S2' S1' S0 V2' B2 B1' B0' P3' P0' + S3' S2' S1 S0 V2 V1' V0' B2' P3' P0' + S3' S2' S0 V2 V1' V0' B2 B1' B0' P3' P0' + P3 P2' P1' P0' + P3' P2 P0' + P3' P1 P0';

V0' = S3' S2' S1 S0 V2 V1' V0' B1' B0' P3' P2' P0' + S3' S2' S1 S0 V2 V1' V0' B2' P3' P2' P0' + P3' P2' P1 P0';

V1' = S3' S2' S1' S0 V2 V1' V0' B2 B1' B0' P3' P1' P0' + S3' S2' S0 V2' V1 B2 B1' B0' P3' P1' P0' + S3' S2' S1' S0' V2' V1 B2' P3' P1' P0' + S3' S2' S1 S0 V2' V1 P3' P1' P0' + P3' P2' P0 + P3 P2' P1' P0' + P3' P2 P1' P0';

V2' = S2' S1' S0 V2 V1' V0' B2 B1' B0' P2' P1' P0' + S2' S0 V2' V0 B2 B1' B0' P2' P1' P0' + S2' S1' S0' V2' V0 B2' P2' P1' P0' + S2' S1 S0 V2' V0 P2' P1' P0' + S3 S2' P2' P1' P0' + S3' S2 P2' P1' P0' + P3 P2' P1' P0' + P3' P2 P1 + P3' P2' P0;

B0' = S3' S2' S1' S0 V1' V0' B2 B1' B0' P3' P2' P1' + S3' S2' S1' S0 V2' B2 B1' B0' P3' P2' P1' + P3' P2' P1' P0;

B1' = S3' S2' S1 S0 V2 V1' V0' B2 B1' B0' P3' P1' P0' + S3' S2' S0 V2 V1' V0' B2' B1 P3' P1' P0' + S3' S2' S1' V2' B2' B1 P3' P1' P0' + S3' S2' S1' S0 B2' B1 P3' P1' P0' + P3' P2 P1' P0' + P3' P1 P0 + P3' P2' P1 ;

B2' = S2' S1 S0 V2 V1' V0' B2 B1' B0' P2' P1' P0' + S2' S0 V2 V1' V0' B2' B0 P2' P1' P0' + S2' S1' S0 B2' B0 P2' P1' P0' + S2' S1' V2' B2' B0 P2' P1' P0' + S3 S2' P2' P1' P0' + S3' S2 P2' P1' P0' + P3 P2' P1' P0' + P3' P1 P0' + P3' P2' P1 ;