

|                 |    |         |       |       |           |
|-----------------|----|---------|-------|-------|-----------|
| time            | 4  | 3       | 2     | 1     | 0         |
| A (=7)          |    | 0       | 1     | 1     | 1         |
| B (=5)          |    | 0       | 1     | 0     | 1         |
| pState(present) | S1 | S3      | S2    | S2    | S0 (init) |
| nState(next)    |    | S1      | S3    | S2    |           |
|                 |    | !A & !B | A & B | A ^ B | A & B     |
| F (sum=12)      | 1  | 1       | 0     | 0     | 0         |
| Cout            | 0  | 1       | 1     | 1     | 0         |

