



initial register evaluation $[r_1 = c_{01}, \dots, r_k = c_{0k}]$

transition system:

- states: evaluations of $x_1, \dots, x_n, r_1, \dots, r_k$
- transitions represent the stepwise behavior
- values of input bits change **nondeterministically**
- atomic propositions: $x_1, \dots, x_n, y_1, \dots, y_m, r_1, \dots, r_k$