

in_queries_not_empty()
QUERY_IN[CCTRL_ID]!
pop_in_query() T0

out_queries_not_empty()
QUERY_TO_BUS[CCTRL_ID]!
pop_out_query() T1

T2
QUERY_BROADCAST?
push_in_query()

out_queries_not_full()
QUERY_OUT[CCTRL_ID]?
push_out_query() T3

Ready

S0

SYS_INIT?
initialize() T4