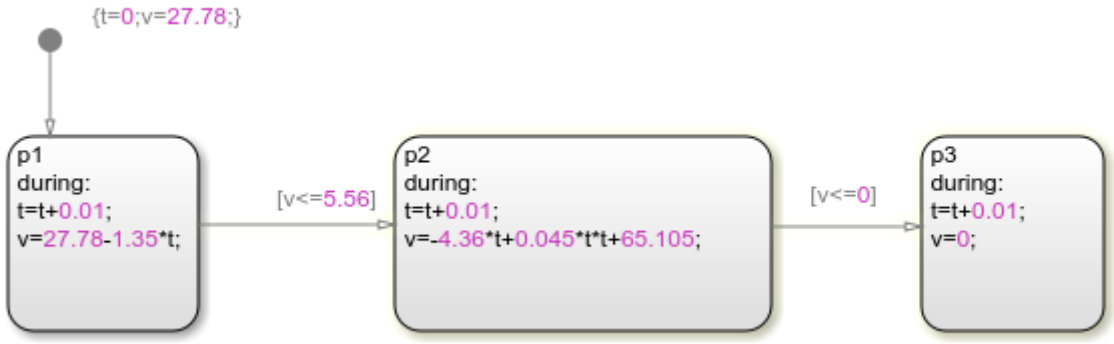
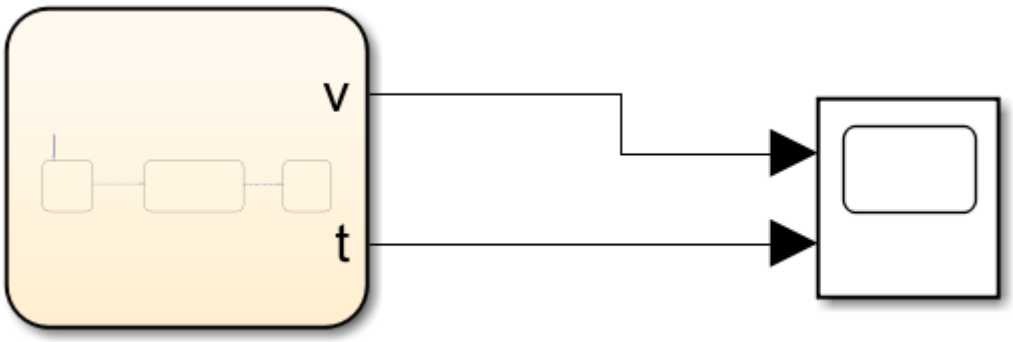
第四次作业

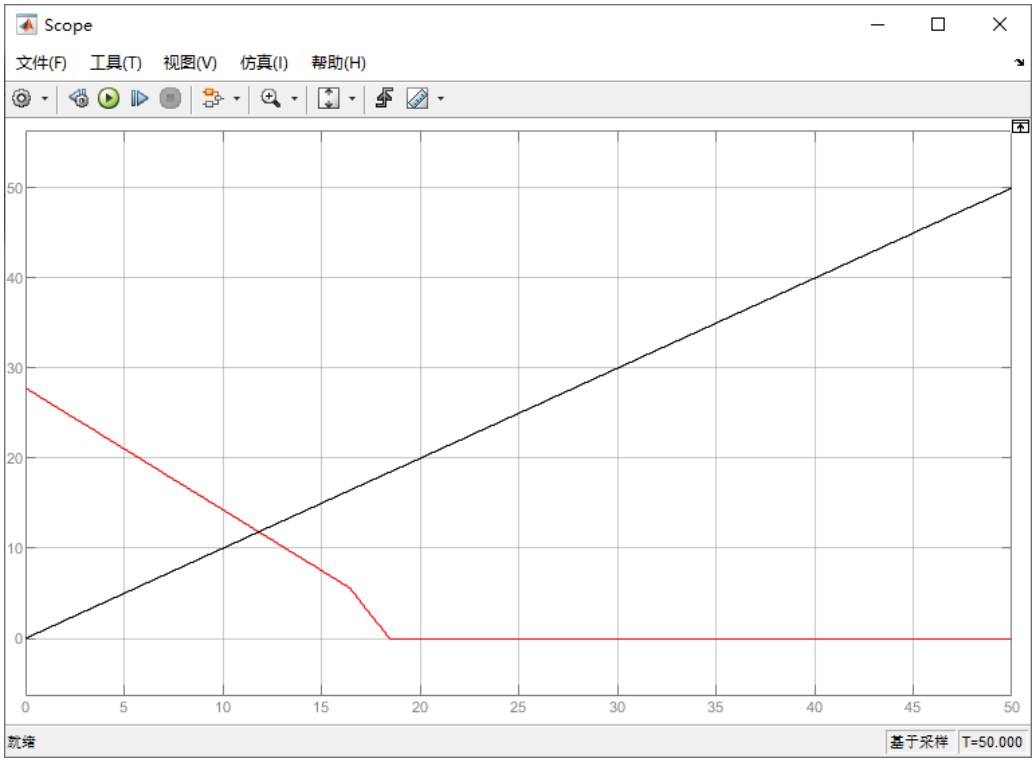
3.4 使用Simulink对汽车自动停车系统进行仿真

stateflow





仿真图



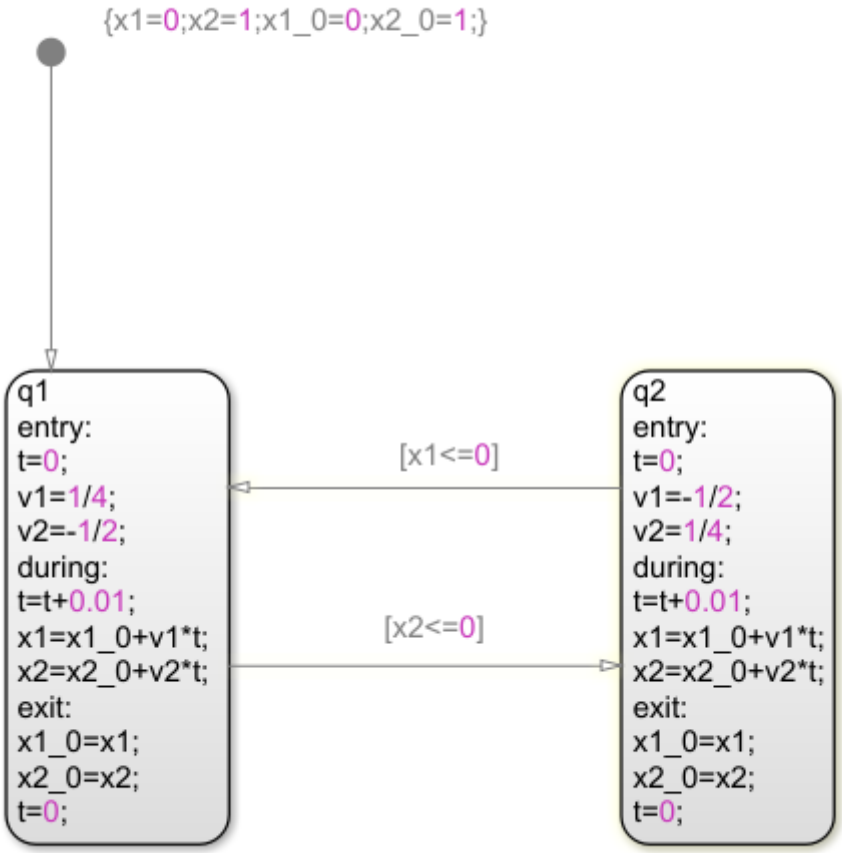
3.5 使用Simulink对水缸系统进行仿真

初始状态1

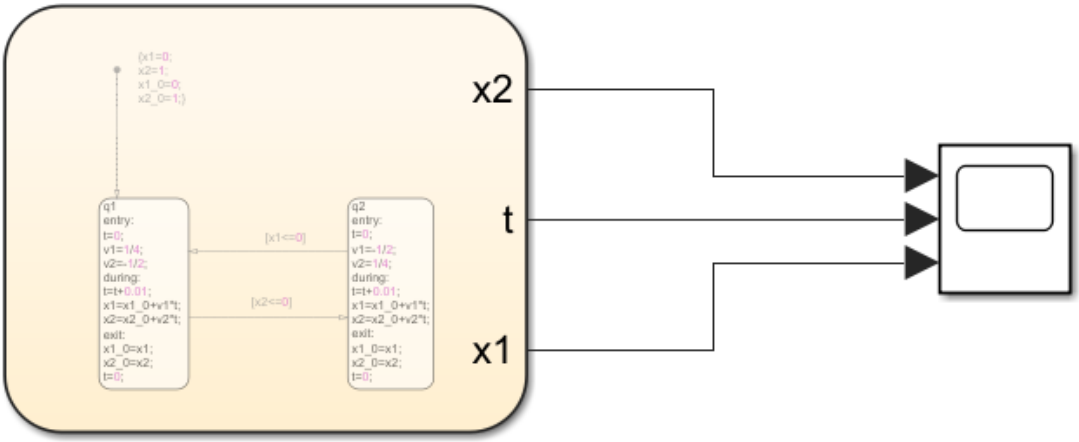
- x_1(缸1初始水量) = 0；　　x_2(缸2初始水量) = 1；

一、速度1：v1 = 0.5; v2 = 0.5; w = 0.75

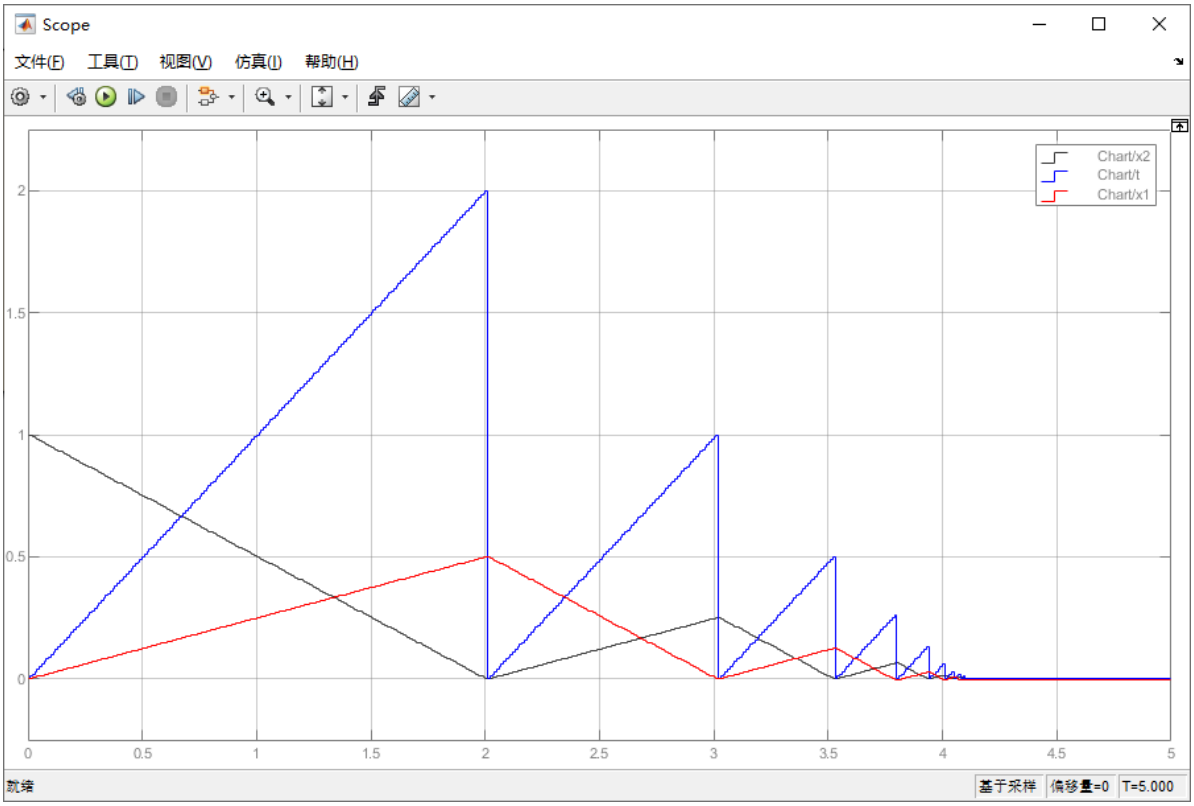
stateflow图



Simulink模型图

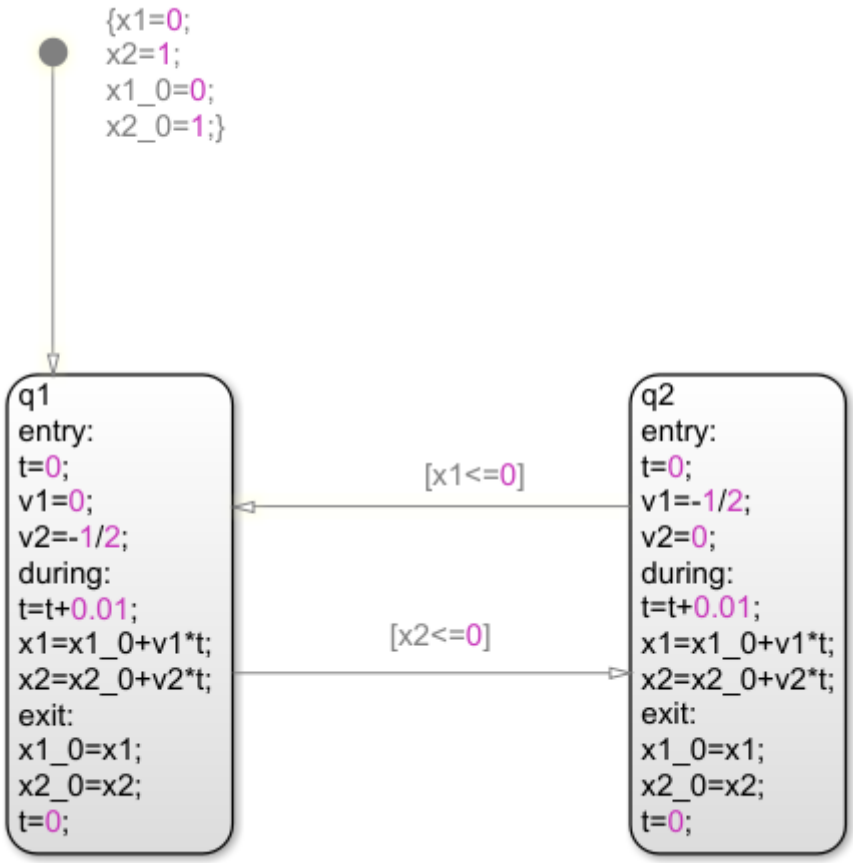


仿真图

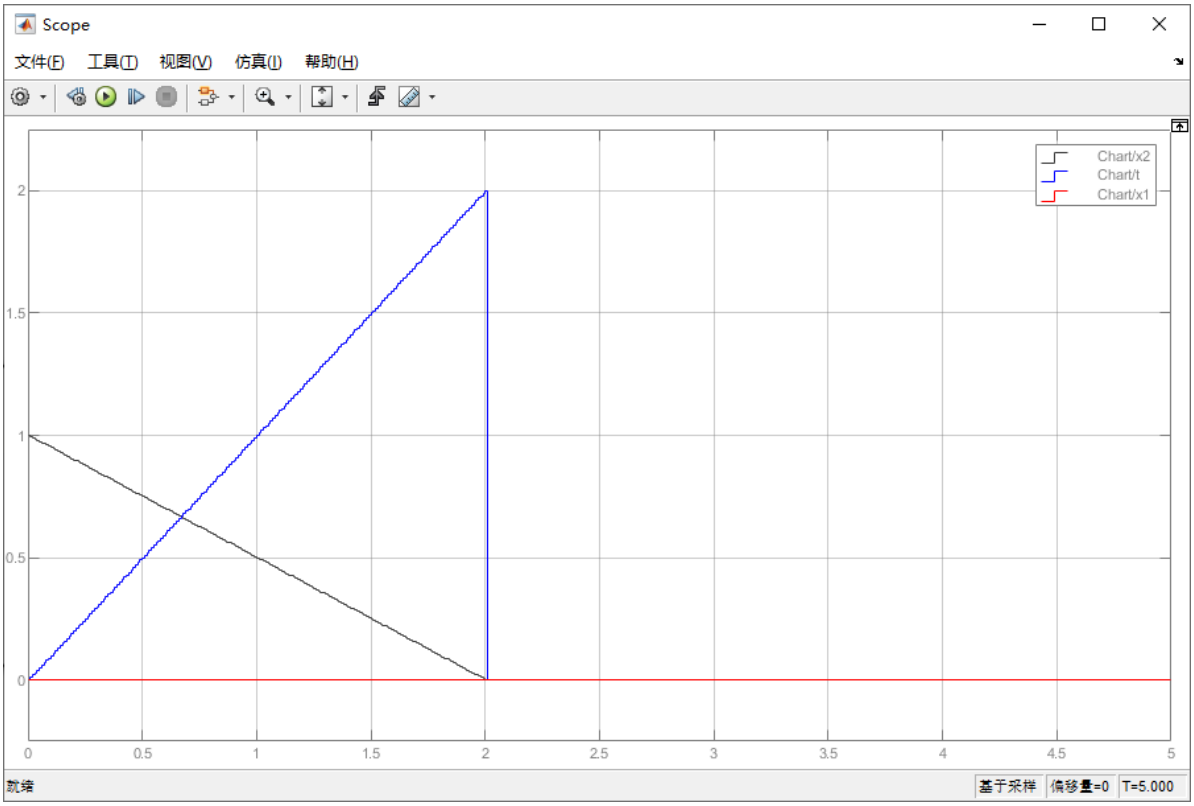


二、速度2：v1 = 0.5； v2 = 0.5； w = 0.5

stateflow图

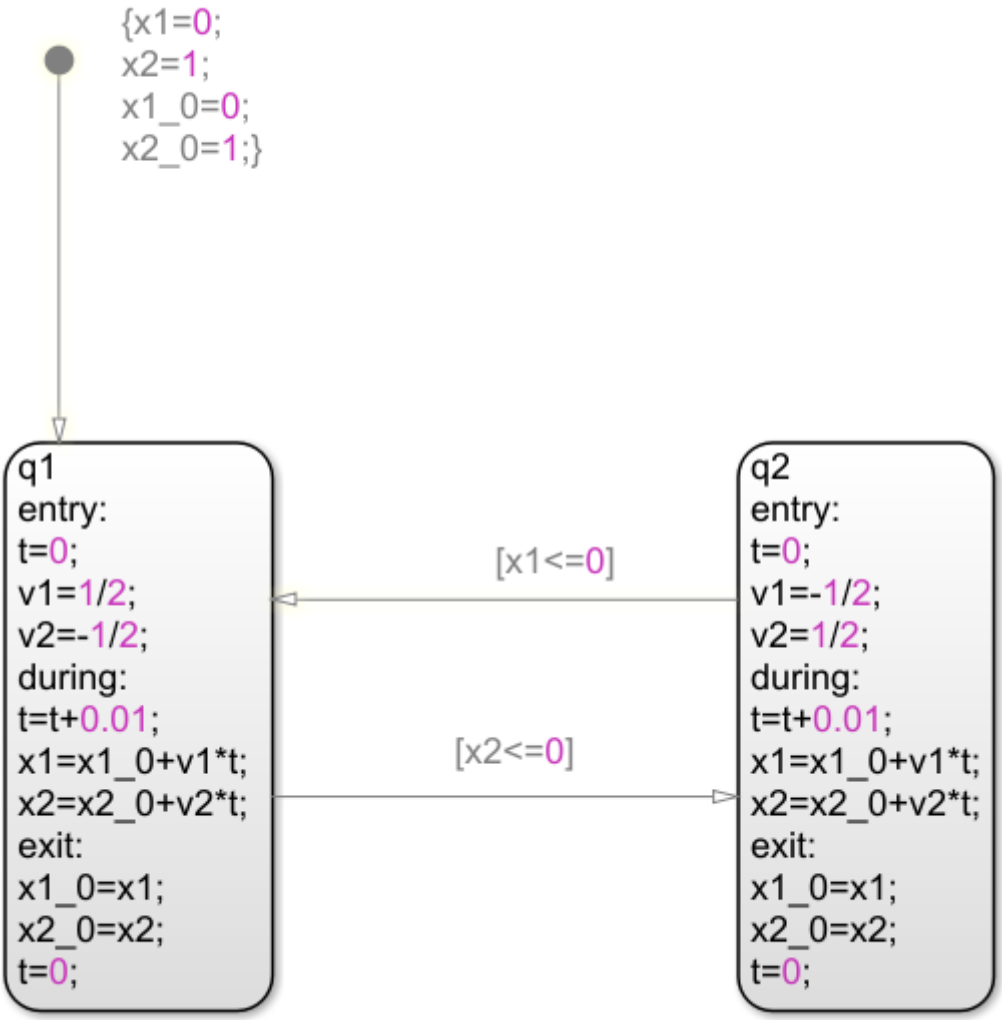


仿真图

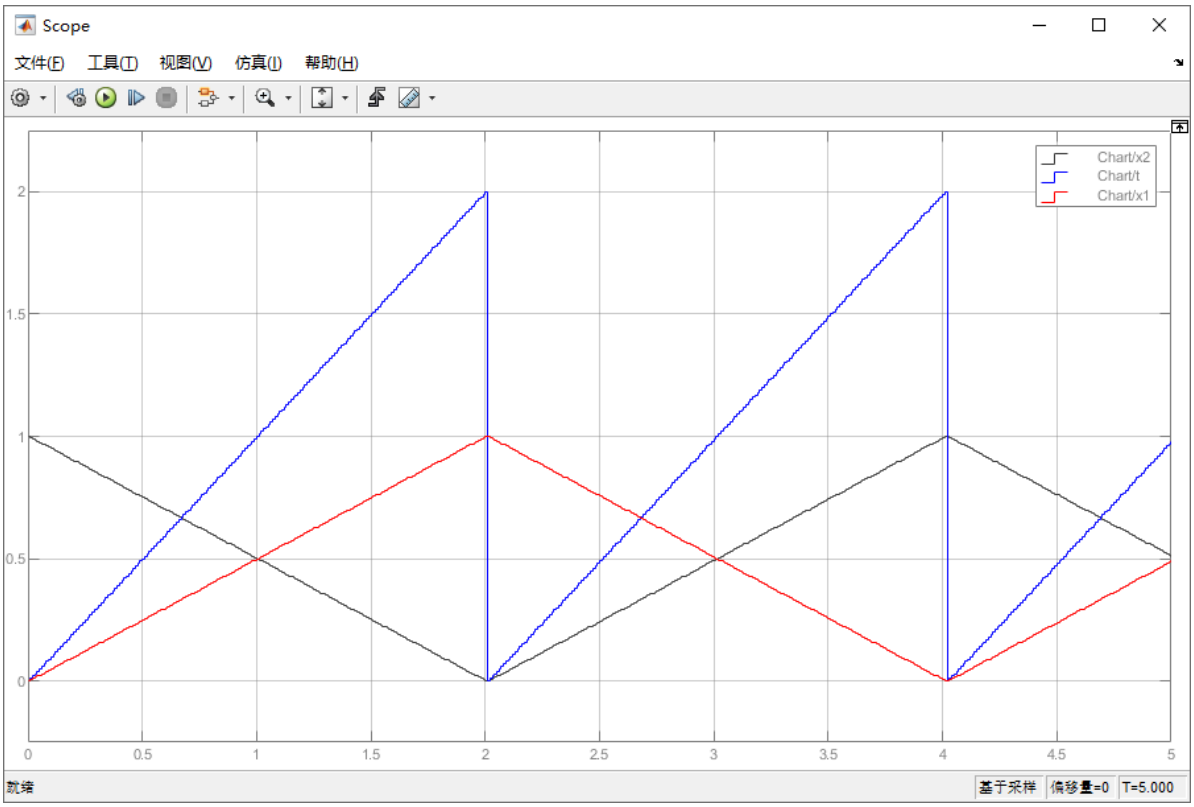


三、速度3：v1 = 0.5； v2 = 0.5； w = 1

stateflow图



仿真图

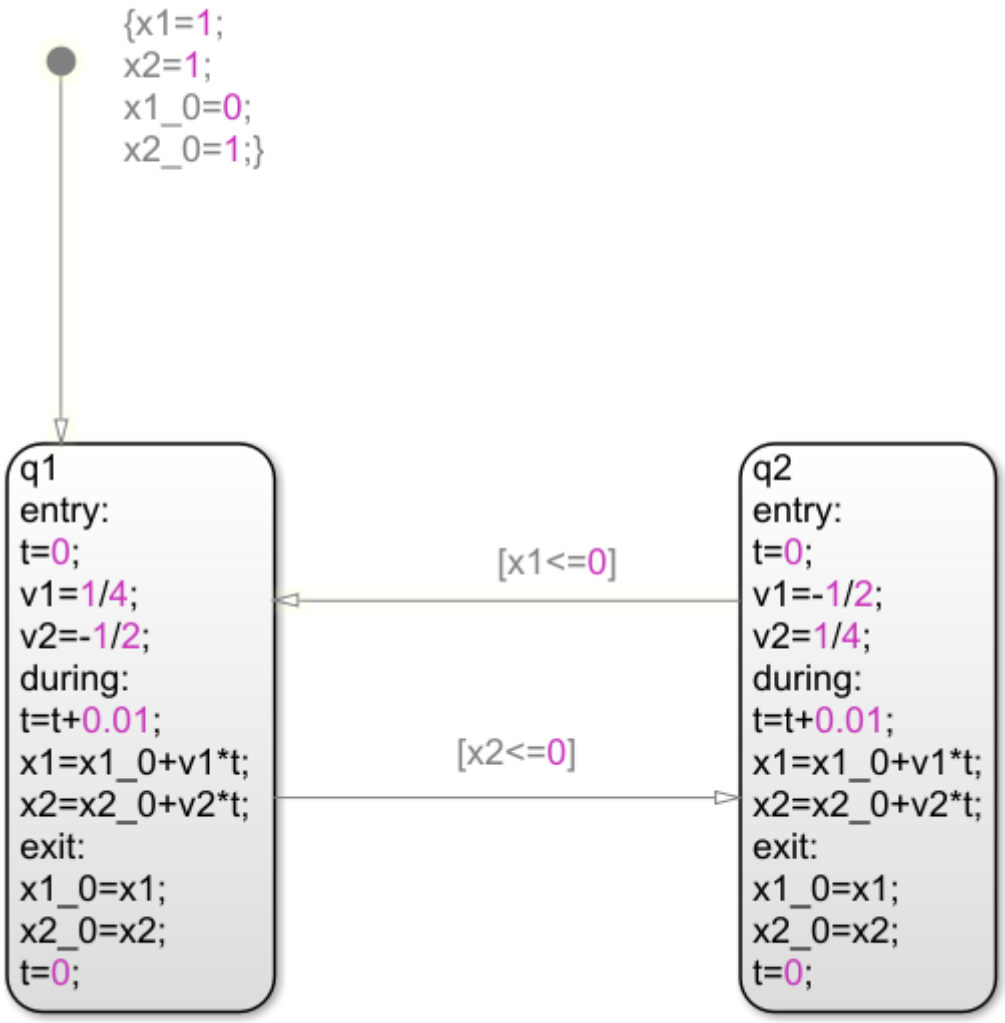


初始状态2

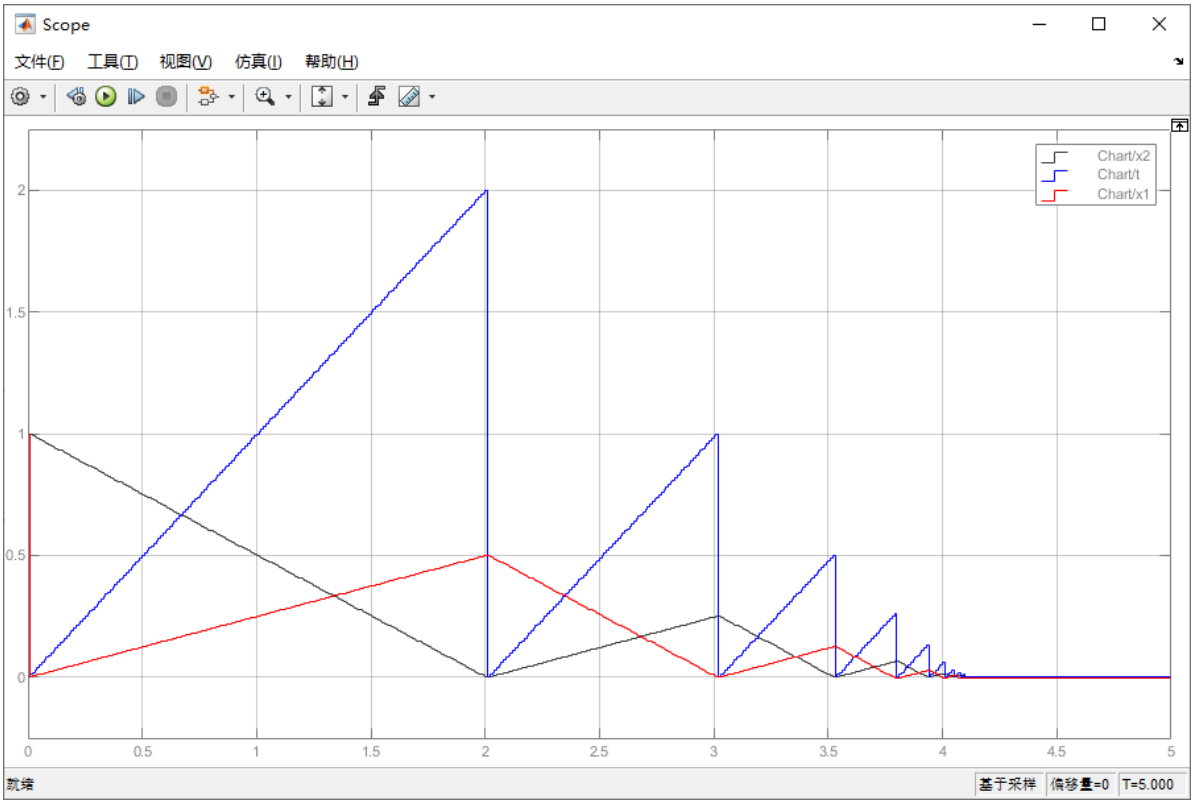
x_1(缸1初始水量) = 1 ;　　x_2(缸2初始水量) = 1 ;

一、速度1：v1 = 0.5;　v2 = 0.5;　w = 0.75

stateflow

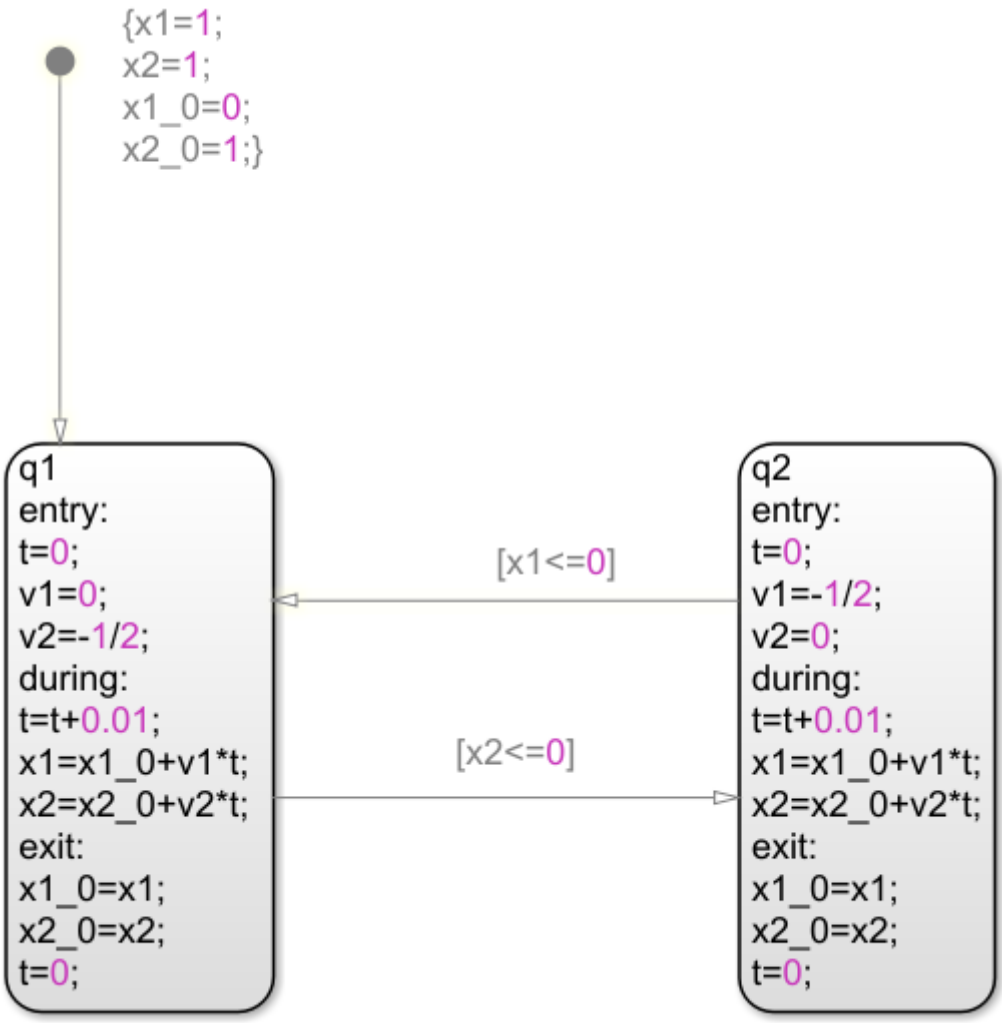


仿真图

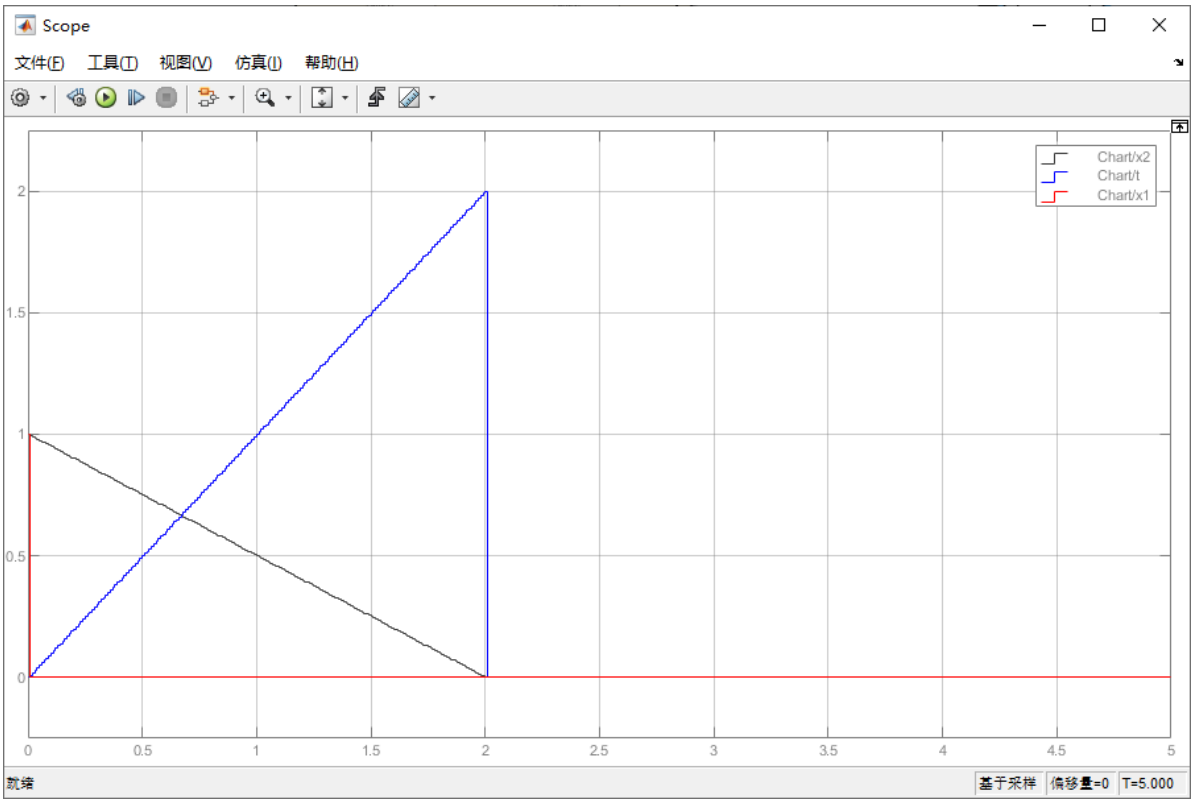


二、速度2：v1 = 0.5;　v2 = 0.5;　w = 0.5

stateflow

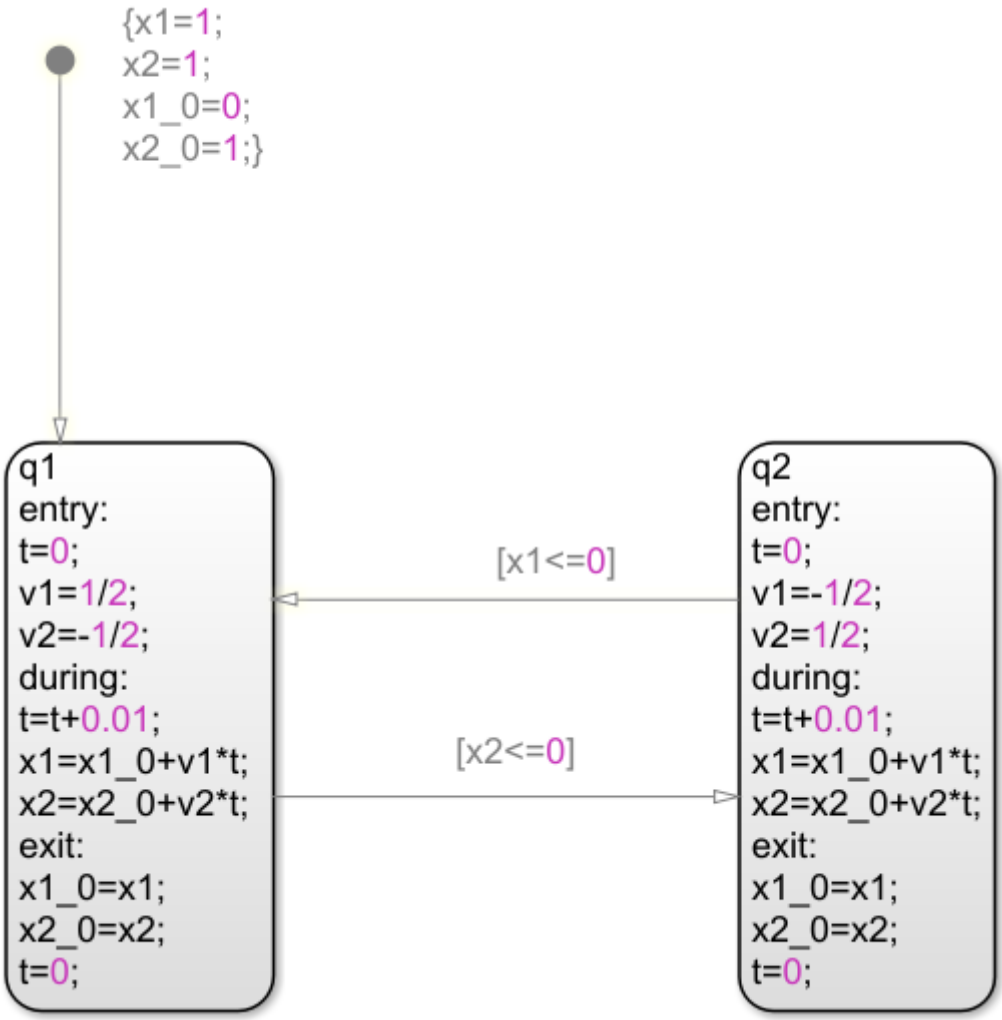
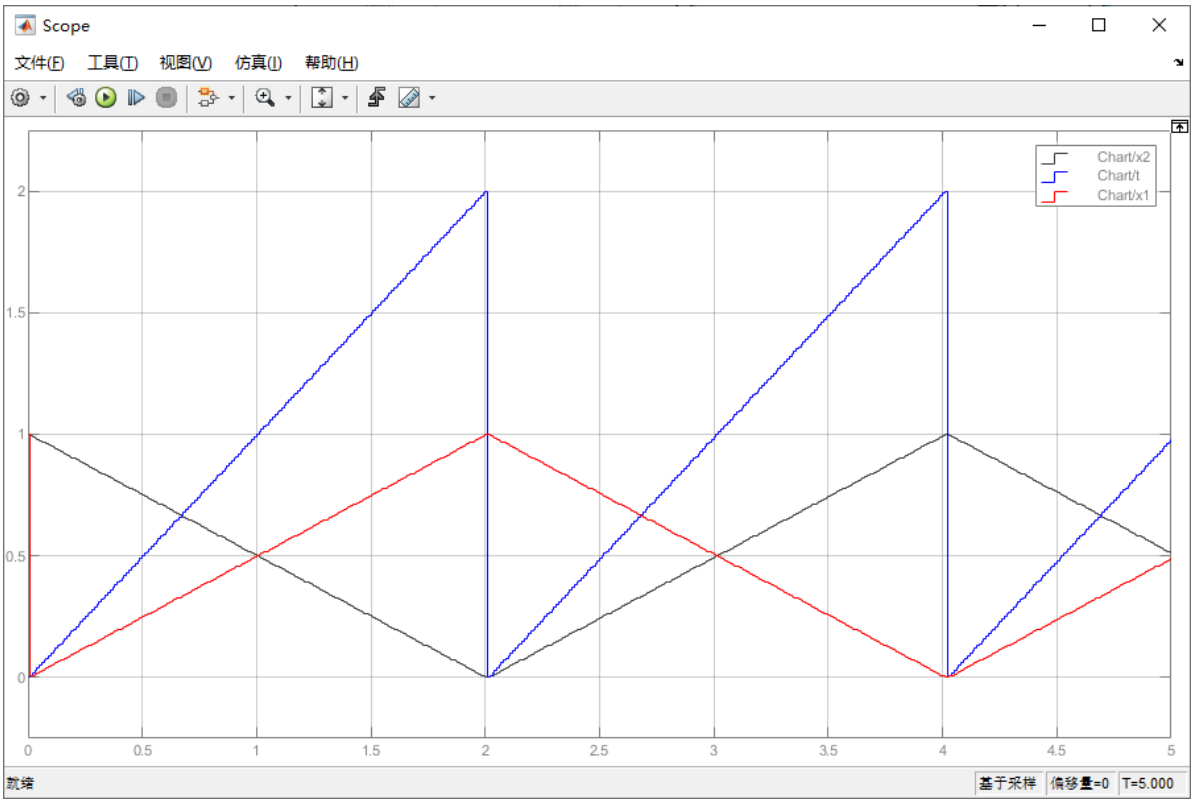


状态图



三、速度3：v1 = 0.5;　v2 = 0.5;　w = 1

stateflow



仿真图