

CHAPTER 10

FINITE STATE MACHINE: PRINCIPLE AND PRACTICE

A finite state machine (FSM) is a sequential circuit with “random” next-state logic. Unlike the regular sequential circuit discussed in Chapters 8 and 9, the state transitions and event sequence of an FSM do not exhibit a simple pattern. Although the basic block diagram of an FSM is similar to that of a regular sequential circuit, its design procedure is different. The derivation of an FSM starts with a more abstract model, such as a state diagram or an algorithm state machine (ASM) chart. Both show the interactions and transitions between the internal states in graphical formats. In this chapter, we study the representation, timing and implementation issues of an FSM as well as derivation of the VHDL code. Our emphasis is on the application of an FSM as the control circuit for a large, complex system, and our discussion focuses on the issues related to this aspect. As in previous chapters, our discussion is limited to the synchronous FSM, in which the state register is controlled by a single global clock.

10.1 OVERVIEW OF FSMS

As its name indicates, a finite state machine (FSM) is a circuit with internal states. Unlike the regular sequential circuits discussed in Chapters 8 and 9, state transition of an FSM is more complicated and the sequence exhibits no simple, regular pattern, as in a counter or shift register. The next-state logic has to be constructed from scratch and is sometimes known as “random” logic.

Formally, an FSM is specified by five entities: symbolic states, input signals, output signals, next-state function and output function. A state specifies a unique internal condition

Finite State Machine Principle And Practice

RD Boyd



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