

Suggested Exercises for Chapter 1 of Event Based Programming

1. Name five different event based systems with which you interact daily.

2. Pick one of your answers in #1 and
 - a. What are the system's events?
 - b. What are the system's control states?

3. Consider a cruise control system on a car:
 - a. What are the system's events?
 - b. What are the system's control states?
 - c. What are the timing assumptions made about how fast the system must respond to events?

4. Pick your favorite word processor and answer the following questions:
 - a. Does it have different modes of operation? What are they? For example, many word processors have both an insert mode and a type over mode.
 - b. Does it use modal windows? For example, does it bring up a printing window that you must interact with whenever you choose to print?
 - c. Should each modal window be considered as a separate control state? Why or why not?
 - d. What events are involved if you try to replace an existing file by using File - Save As?
 - e. Give an example where it uses event multiplexing (besides the File-Save and the Save icon discussed in the text).
 - f. Does the system use event multicasting? If so, where?