

+ Chapter 8

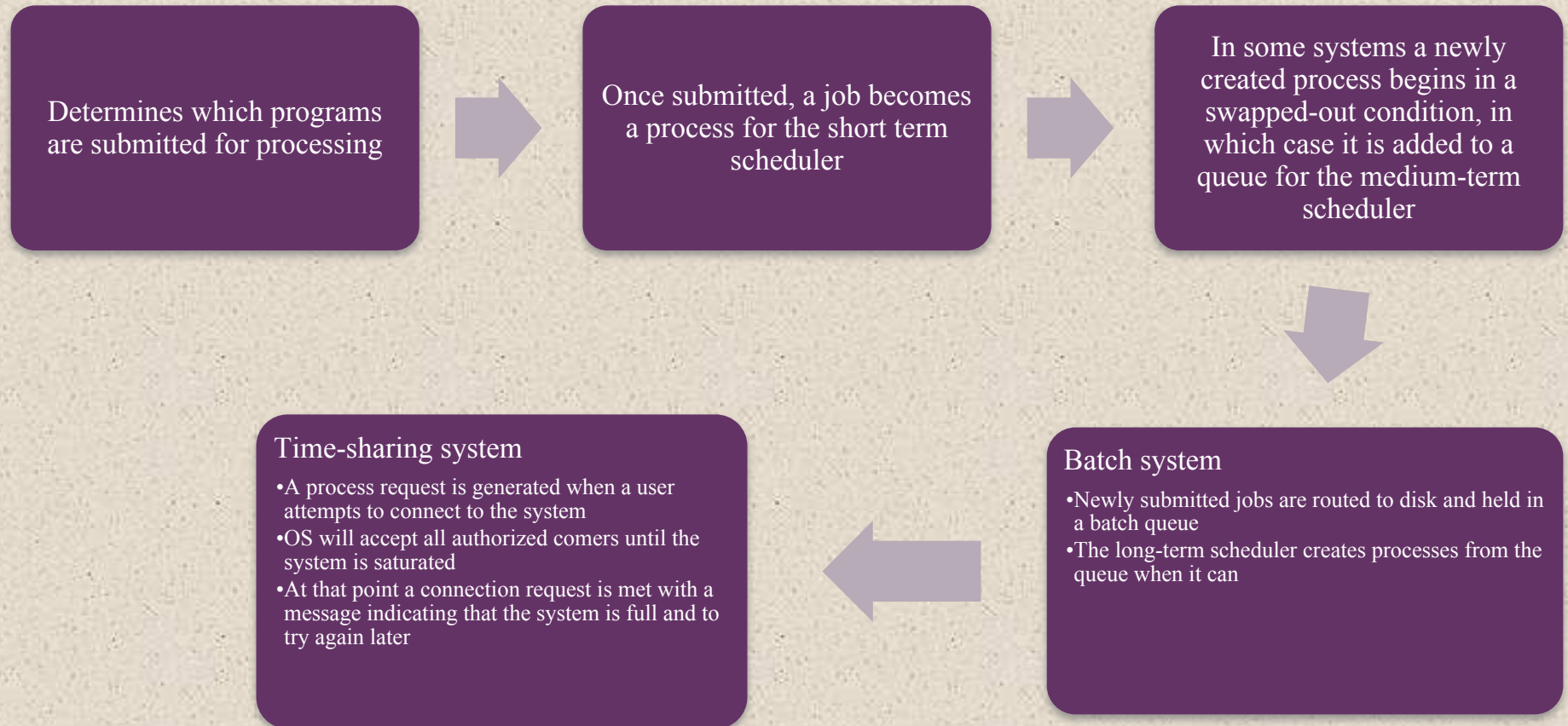
Operating System Support

Scheduling

Table 8.4 Types of Scheduling

Long-term scheduling	The decision to add to the pool of processes to be executed
Medium-term scheduling	The decision to add to the number of processes that are partially or fully in main memory
Short-term scheduling	The decision as to which available process will be executed by the processor
I/O scheduling	The decision as to which process's pending I/O request shall be handled by an available I/O device

Long Term Scheduling



+ Medium-Term Scheduling

and Short-Term Scheduling

Medium-Term

- Part of the swapping function
- Swapping-in decision is based on the need to manage the degree of multiprogramming
- Swapping-in decision will consider the memory requirements of the swapped-out processes

Short-Term

- Also known as the dispatcher
- Executes frequently and makes the fine-grained decision of which job to execute next

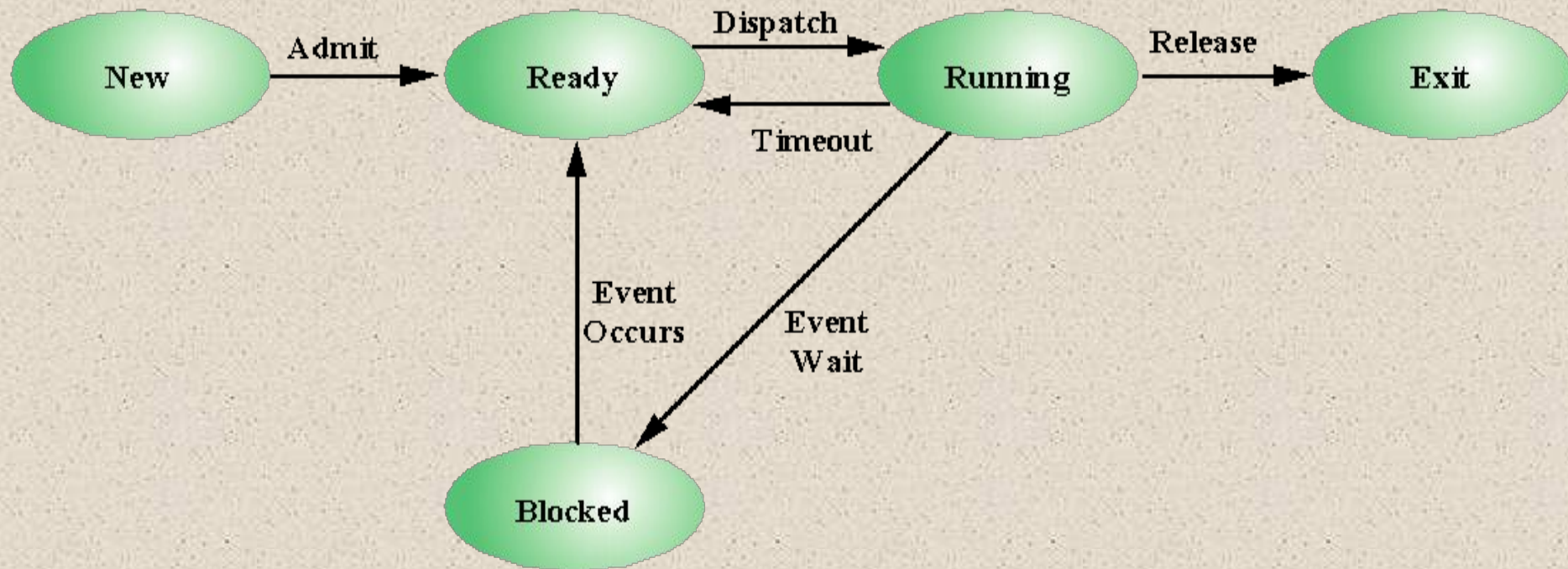


Figure 8.7 Five-State Process Model