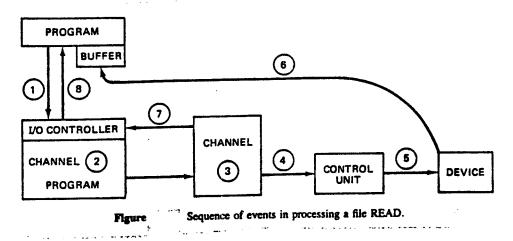


Figure Computer system components involved in I/O processing.



Processing a Read

When a program requests a READ from a file, the following sequence of events typically occurs.

- 1. The program issues a READ, which interrupts the I/O controller.
- 2. The I/O controller builds a channel program in main memory.
- 3. The channel program is executed by the addressed channel.
- 4. Appropriate signals are transmitted to the addressed control unit.
- 5. These signals are interpreted by the control unit and used to control device operations to read the requested data.
- 6. The requested data flows from the device along the pathway to the file's buffer area in the program's memory space.
- 7. An interrupt is issued by the channel to signal continuation of the program's execution
- 8. Control returns to the program.

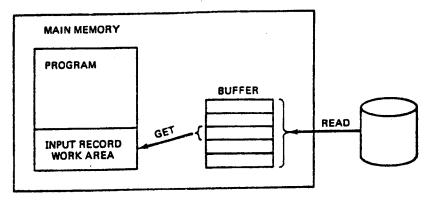


Figure Device access with blocked records.