1   Limited Direct Execution

Vocabulary

1. **Time Sharing**

   - Is a mechanism used by an OS to share a resource
   - Allows an entity to use the resource for a little while, and then a little while by another, and so forth

   Example

   CPU

2. **Limited Direct Execution**

   - Is synomyous to **baby proofing**
   - **Limited** Means there will be a limit to what a processor can and cannot do
   - **Direct Execution** Means that the processor will run directly on the CPU

3. **User Mode**

   - Is a processor mode where code that runs is restricted in what it can do

4. **Kernel Mode**

   - Is a processor mode where code that runs can do what it likes, including previleged operations

   Example

   Previleged operations include

   1. I/O requests
   2. Executing all types of restricted instructions

5. **System Call**

   - Programmatic way in which a computer program requests a service from the kernel of the operating system

6. **Trap**

7. **Return-from-Trap**

8. **Trap Table**

9. **Trap Handlers**

10. **System-call Numebr**

11. **Timer Interrupt**