

## Operating Systems and System Programming Study Guide

This study guide covers various topics related to operating systems and system programming, including their definitions, components, and functions. It also discusses the relationship between operating systems and system programming, and the role of the kernel in the operating system.

### 1. Introduction

#### a. Operating Systems

- Operating systems are independent, self-contained operating units in an operating system.
- They represent running programs with their own memory space, code, and data.

#### b. Why Operating Systems Differ from Programs?

- Programs are static, while operating systems are dynamic and continuously running.
- Operating systems have many more functions than programs, allowing them to manage resources.

#### c. Operating Systems as Interactions with CPU

- Operating systems are implemented as interactions with the CPU using the Process Control Block (PCB).
- PCB contains process-specific information, such as process state, program counter, and registers.

#### d. Process Creation

- Processes are created through system calls, such as `fork()` or `exec()`, which create new processes.
- New processes inherit attributes from their parent process, such as parent PID and priority.

### 2. System Calls

#### a. System Calls

- System calls are requests for services from the operating system.
- They provide the user interface to the operating system for the user's process.

#### b. Shared Libraries

- Shared libraries are loaded into memory through system calls like `dlopen()`, `dlsym()`, and `dload()`.
- Shared libraries are loaded into memory and shared with other processes, allowing them to use the same code.

#### c. User-Defined Libraries: The user-defined Process

- User-defined libraries are loaded into memory through system calls like `dlopen()`, `dlsym()`, and `dload()`.
- User-defined libraries are loaded into memory and shared with other processes, allowing them to use the same code.

#### d. Types of Libraries

- Shared Libraries: Shared by multiple processes, loaded into memory and shared with other processes.
- Static Libraries: Loaded into memory and shared with other processes, but not shared with other processes.

# Os Study Guide

**Ido Dubrawsky**



## Os Study Guide:

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