A CASE STUDY ON VIRTUAL MEMORY MANAGEMENT IN UBUNTU

Ubuntu is a widely used Linux distribution known for its user-friendly interface, wide range of software and features, and large community of users and developers. One of the key features of Ubuntu, and any operating system, is its ability to manage virtual memory. Virtual memory is a technique that allows the operating system to use disk space as if it were additional main memory, thus providing the ability to run more programs or larger programs than the actual amount of physical memory allows. In this case study, we will investigate how well Ubuntu's virtual memory management features work together with the process management features when handling different workloads, such as high memory usage, heavy multitasking, and resource-intensive applications. We will also study how Ubuntu's virtual memory management differs in implementation from that of other operating systems. We will analyze the tools and features provided by Ubuntu for managing virtual memory, and measure their performance under different scenarios. Our goal is to understand the strengths and weaknesses of Ubuntu's virtual memory management and identify potential areas for improvement.

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