

Causes of Address Space Expansion: Shared Memory: P1 might explicitly request or be configured to use shared memory regions. These regions are intentionally made accessible to multiple processes for inter-process communication (IPC). Violation of Process Isolation: Generally No, if Intentional: If the sharing of memory is intentional and managed by the operating system (e.g., through shared memory segments or memory-mapped files), it does not violate process isolation. Process isolation aims to prevent accidental or unauthorized access to another process's memory.