

PRESENTING A MINI PROJECT REPORT ON THE:-

“INTER PROCESS COMMUNICATION BETWEEN TWO PROCESSES”

4 authors:



GOKUL PANDEY



PRERIT MUJOO



SACHIN DEV



ISHAN BHAT

Some of the authors of this publication are also working on these related projects:



DIFFERENT METHODS TO DO INTER PROCESS COMMUNICATION



INFORMATION ABOUT THE INTER PROCESS COMMUNICATION.

“INTER PROCESS COMMUNICATION BETWEEN TWO PROCESSES”

GOKUL PANDEY¹, PRERIT MUJOO², SACHIN DEV³ and ISHAN BHAT⁴

2021a1r096@mietjammu.in

2021a1r098@mietjammu.in

2021a1r102@mietjammu.in

2021a1r103@mietjammu.in

MODEL INSTITUTE OF Engineering and Technology,
KOT BHALWAL, JAMMU, J&K, INDIA

Abstract

WHAT IS INTER PROCESS COMMUNICATION?

INTER PROCESS COMMUNICATION (IPC) IS A MECHANISM WHICH ALLOWS THE EXCHANGE OF DATA BETWEEN THE PROCESSES. PROCESSES THAT EXCEUTE CONCURRENTLY IN THE OPERATING SYSTEM MAY BE EITHER INDEPENDENT PROCESSES OR COOPERATING PROCESSES.

METHODS: USING PIPES, USING MESSAGE QUEUE, USING FIFO, BY SHARED MEMORY.

1. Introduction: Inter process communication is a set of techniques for the exchange of data among multiple threads in one or more processes. Process may be running on one or more computers connected on the same network.

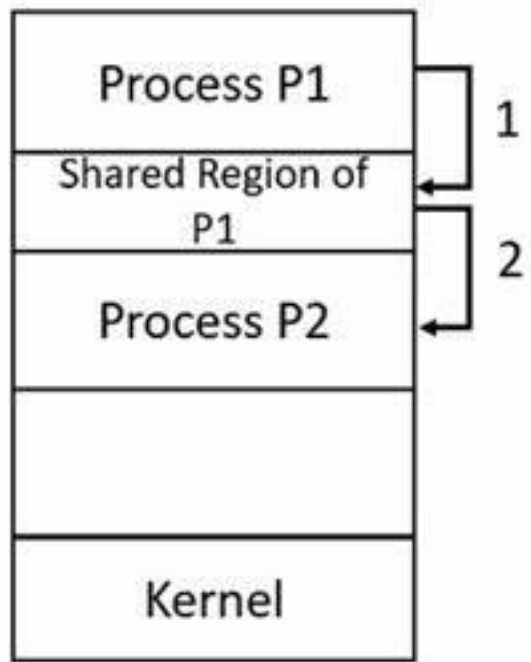
Inter process communication through shared memory is a concept where two or more processes can access the common memory.and communication is done via this shared memory where changes can made by one process and can be seen by another process.

PROCESS

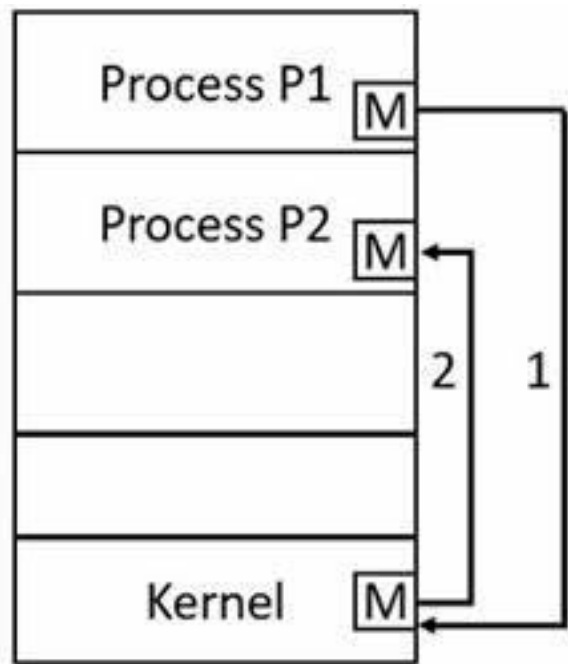
- 1.) SERVER READS FROM THE INPUT FILE.
- 2.) THE SERVER WRITES THE DATA EITHER USING PIPES OR MESSAGE QUEUE, OR FIFO.
- 3.) THE CLIENT READS THE DATA FROM THE IPC CHANNEL,AGAIN REQUIRING THE IPCBUFFER TO THE CLIENT PROCESS.
- 4.) FINALLY THE DATA IS COPIED .

Operating system should always manage the message queue of the data which we have to input. Data should be received by another process at the same time .This whole task is carried out by the concept of shared memory .

DIAGRAMATIC REPRESENTATION



Shared Memory System



Message Passing System