Chapter-6

IPC (Inter Process Communication): att Process Onesati

Process as snew Communicate stat

Reasons for IPC -

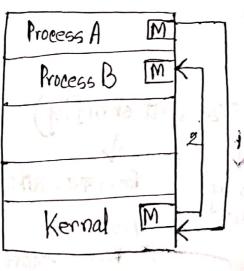
- i) Information Sharing Information share 200 Den
- ii) Computation speedup—sti are program metarti process
- iii) Modulovity off Process as str Module
 2012 u 2012 Module.

iv)Convenience.

Two models of IPC (> LARGE IPC DEONIA)

1 Shooted Memory.

2 Message Passing.

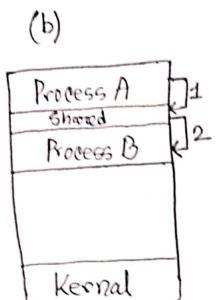


(a) Message Passing:

Process A Kernal a message solution, Process B Kennal Caren Message & Read and From

(a)

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A ONT B STATEM TENT MEMORY A

MEMORY STATI MEMORY

AND ONT SANT MEMORY

AND STATISTICA ONTO

Memory Allocate and Finds

ONT A-3 Access and S

STATE, B-3 Access and S

STATE

STA

A अत्र भी किंद्र बलान भाव Showed Memory to Write त्रास पिला, B अला Read जात निला Same B Write त्राम A rend जात भाव।

+) Shmget() >> system call an outflow shooted Memory
Access xxx 9112x, fart Memory- 4 (本) 6112511117 (公民可)
Key

* int shmget (key_t key, int size, int shmflg)

Memory Address And Spanis Memory Size. Read करूत नामि Write

PARTITITITE .

Suppose A white क्वला 0 B read क्वला 1

Signals

- some signal have meaning.
- some signal can be user defined.

Signal वाह्मला, Signal handler उसे instruction stant execute करत, मल वासम (जाम वाह्मला)

** Some signal handler can be overriden to do other things.

न्तर् शत्रता।
exit() → overwrite कृष्ण शान्ता।
(Ital+0 → overwrite कृष्ण शानि।

Socket AN ENTITED SET Process CONCART Process AT ENTED Communicate are MICELL different machine a

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Linux system a

Unix Gocker

TCP/UDP Sont

Unix Socket -> Local machine a 2th process communicate arts morni

TCP/UDP Socket > Different Machine a 2th process

communication a mier

(roestot Networking at Layex stonial and Fost axes are Application, Poda

Link etc)

(→ Socket → full duplex A ↔ B (A,B > Good Mrite)

H Pipe → half duplex A → B South A ← B.

(A The Read, B The Write)

Oran A THE Write, B THE Read)

A Pipe of System Call. It has two tile descriptors. Read & Write.

handler handler.

२ र्वतल्य Pipe आरि।

- 2 Regulare Pipes:
- (3) Named Pipes:

1 Re

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t

Scanned with CamScanner

1) Regular Pipe; of process later stop Read Message pass fork ar sinficol child execute 20th, child & same pipe use P(write) C(unte) acutal P(write), ((read) again for ance P(wite) C(read) 2) Named pipes: two endpoints of a pipe can be in different processes. De water after all outstill. 加加于2000月间的到均分的。少时的 Fight State of Mesonal Mesonal In

CESS

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Messige Queues

Process Fight oxus of Mailbox expression Mailbox
A Message Send/Receive again

Remote Procedure Calls

att Process Fig. Address space ant, and att Address space a Run Address space a Run Address space use agree mital out Process and Address space use agree mital clish-server a 241

D Blocking communication: plpe and buffer a sign of space and, full zer one one Message to Block and small and other sign.

Description white are offer some of state of the same of the same

Threads

Thread of and Multicore Programming of problem solve Rai

2 AATBA Thread: 1) User Throads
2) Kernal Threads

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