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Page

Assignment 8

Title- Inter process communication using shared memory systemV

Problem statement -
Application to demo client & server programs in which server process creates a shared memory segment and writes the message to the shared memory segment.

Theory -
Inter process communication through shared memory is a concept where changes made by one process can be viewed by another process.

Server reads from i/p file
server writes this data in a msg using either a pipe, fifo or message queue.
Client reads data from IPC channel again requesting the data to be copied from Kernels IPC buffer to the clients buffer.

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Page

System calls used -

ftok() - used to generate a unique key.

shmget() - int shmget (key_t size, int shmflag);

shmat() - Before you can use shared memory segment, you have to attach yoursely to it using shmat().

shmdt() - when you're done with the shared memory segment, your program should detach itself from it

shmctl() - when you detach from shared mem it is not destroyed, to destroy it shmctl is used.

Conclusion -

I have successfully understood and implemented inter-process communication using shared memory.

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