

QUESTIONS – Inter Process Communication

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Questions – Inter Process Communication

1. What are the various message orderings that are used in group communication?
2. What are different failure handling semantics in RPC?
3. List various semantics of send primitives. Give appropriate application for each of the semantics
4. What is atomic broadcast protocol? Give general overview of its implementation.
5. Differentiate system call and local procedure call.
6. Discuss the system calls which are used to provide the communication
 1. Between related processes
 2. Between the processes within the file system
 3. Between any arbitrary processes
7. How parameter and result passing is handled in RPC?
8. Give block schematic to explain how a single process can communicate with two of its child processes – using pipes? What are the limitations of pipes?
9. Consider a client-server application. Which semantics of send is preferred? Why?

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10. Give block schematic which shows the various steps in RPC handling.
11. It is required to update a bank account in DCS in order. Which message ordering is appropriate? Why?
12. List the requirements of broadcast protocol.
13. What is indirect communication? Give an application where this type of communication is appropriate.
14. What are the roles of binding register in RPC? In order to load balance the service providers, what is the requirements of binding register
15. What are pros and cons of different types of binding?
16. What do you mean by non-blocking RPC? Give an example.
17. Differentiate unanimity and uniformity requirements of broadcast protocol.