INTER-PROCESS COMMUNICATION AND SYNCHRONISATION:
Lesson-19: RPC

RPC (remote procedure call)

- A method used for connecting two remotely placed function s by first using a protocol for connecting the processes. It is used in the cases of distributed tasks

- The RTOS can provide for the use of RPCs. These permits distributed environment for the embedded systems.
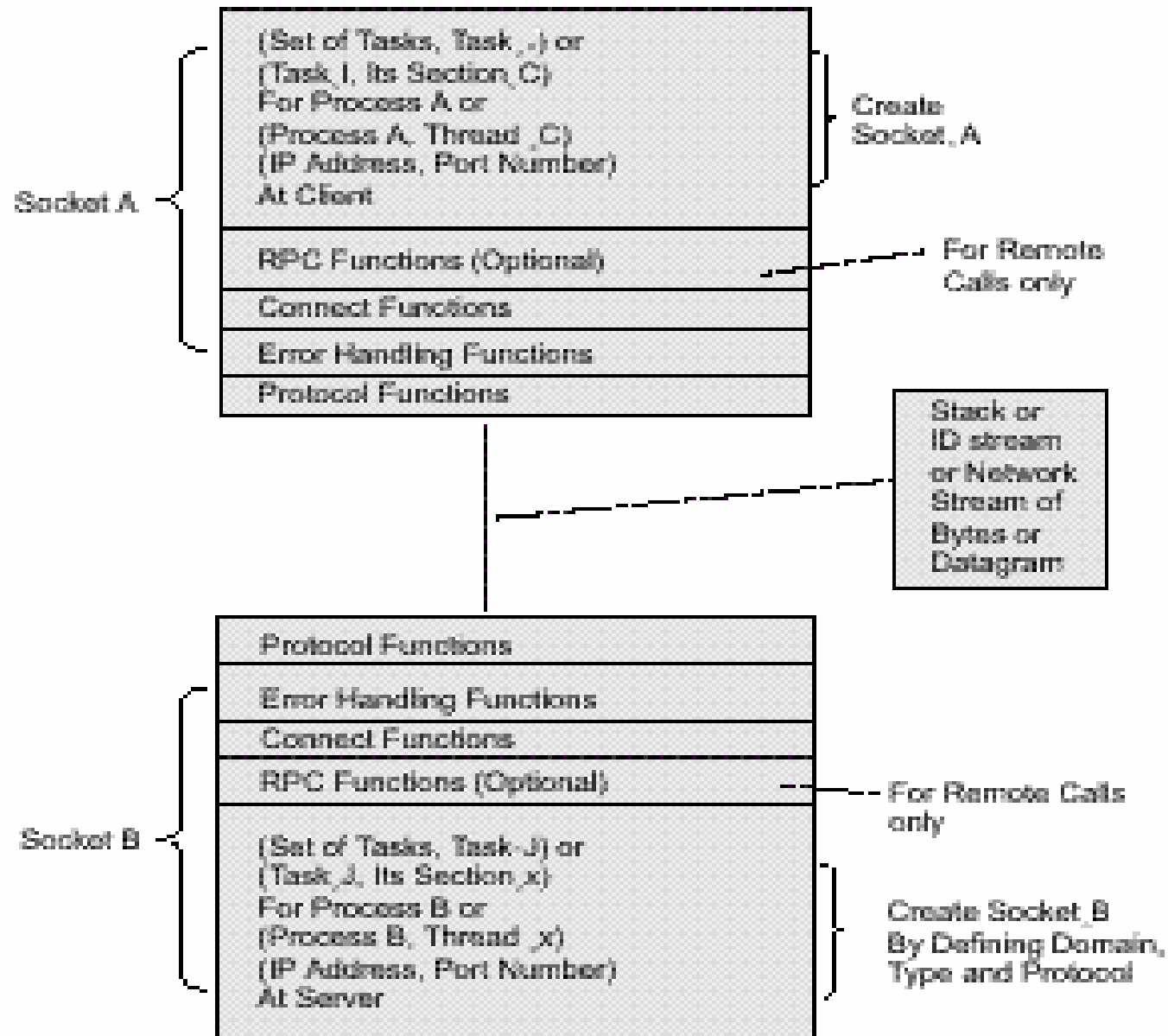
RPC (remote procedure call)…

- The OS IPC function allows a function or method to run at another address space of shared network or other remote computer.

- The client makes the call to the function that is local or remote and the server response is either remote or local in the call.

Remote Procedure Call (RPC)

- Both systems work in the peer-to-peer communication mode. Each system in peer-to-peer mode can make an RPC.

- An RPC permits remote invocation of the processes in the distributed systems.

Chapter-7 L19: "Embedded Systems - Architecture, Programming and Design" , Raj Kamal, Publs.: McGraw-Hill, Inc.

Remote Procedure Call (RPC)

Socket A	(Set of Tasks, Task _) or (Task_I, Its Section_C) For Process A or (Process A, Thread _C) (IP Address, Port Number) At Client	Create Socket_A
	RPC Functions (Optional)	For Remote Calls only
	Connect Functions	
	Error Handling Functions	
	Protocol Functions	

Stack or ID stream or Network Stream of Bytes or Datagram

Socket B	Protocol Functions	
	Error Handling Functions	
	Connect Functions	
	RPC Functions (Optional)	For Remote Calls only
	(Set of Tasks, Task _J) or (Task_J, Its Section _x) For Process B or (Process B, Thread _x) (IP Address, Port Number) At Server	Create Socket_B By Defining Domain, Type and Protocol

Design" , Raj Kamal, Pubis.: McGraw-Hill, Inc.

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Summary

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We learnt

- Remote procedure calls (RPCs) permits remote invocation of the processes in the distributed systems

End of Lesson-19: RPC

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