



# Distributed Systems: Concepts and Design

*Edition 5*

By George Coulouris, Jean Dollimore, Tim Kindberg and Gordon Blair  
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## Chapter 4 Exercise Solutions

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4.1 Is it conceivably useful for a port to have several receivers?

*4.1 Ans.*

If several processes share a port, then it must be possible for all of the messages that arrive on that port to be received and processed independently by those processes.

Processes do not usually share data, but sharing a port would require access to common data representing the messages in the queue at the port. In addition, the queue structure would be complicated by the fact that each process has its own idea of the front of the queue and when the queue is empty.

Note that a port group may be used to allow several processes to receive the same message.

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4.2 A server creates a port which it uses to receive requests from clients. Discuss the design issues concerning the relationship between the name of this port and the names used by clients.

*4.2 Ans.*

The main design issues for locating server ports are:

(i) How does a client know what port and IP address to use to reach a service?

The options are:

- use a name server/binder to map the textual name of each service to its port.
- each service uses well-known location-independent port id, which avoids a lookup at a name server.

The operating system still has to look up the whereabouts of the server, but the answer may be cached locally.

(ii) How can different servers offer the service at different times?

Location-independent port identifiers allow the service to have the same port at different locations. If a binder is used, the client needs to reconsult the binder to find the new location.

(iii) Efficiency of access to ports and local identifiers.

Sometimes operating systems allow processes to use efficient local names to refer to ports. This becomes an issue when a server creates a non-public port for a particular client to send messages to, because the local name is meaningless to the client and must be translated to a global identifier for use by the client.

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4.3 The programs in Figure 4.3 and Figure 4.4 are available on [cdk5.net/isp](http://cdk5.net/isp). Use them to make a test kit to determine the conditions in which datagrams are sometimes dropped. Hint: the client program should be able to vary the number of messages sent and their size; the server should detect when a message from a particular client is missed.

*4.3 Ans.*

For a test of this type, one process sends and another receives. Modify the program in Figure 4.3 so that the program arguments specify i) the server's hostname ii) the server port, iii) the number,  $n$  of messages to be sent and iv) the length,  $l$  of the messages. If the arguments are not suitable, the program should exit immediately. The program should open a datagram socket and then send  $n$  UDP datagram messages to the

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