



Chapter 2 Exercise Solutions

2.1 Provide three specific and contrasting examples of the increasing levels of heterogeneity experienced in contemporary distributed systems as defined in Section 2.2.

2.1 Ans:

Heterogeneity exists in many areas of a contemporary distributed system including in the areas of hardware, operating systems, networks and programming languages. We look at the first three as examples:

- In terms of hardware, distributed systems are increasingly heterogeneous featuring (typically Intel-based) PCs, smart phones, resource-limited sensor nodes, and resource-rich cluster computers or multi-core processors.
- In terms of operating systems, a distributed system may include computers running Windows, MAC OS, various flavours of Unix, and also more specialist operating systems for smart phones or sensor nodes.
- In terms of networks, the Internet is also increasingly heterogeneous embracing wireless technologies and ad hoc styles of networking.

2.2 What problems do you foresee in the direct coupling between communicating entities that is implicit in remote invocation approaches? Consequently, what advantages do you anticipate from a level of decoupling as offered by space and time uncoupling? Note: you might want to revisit this answer after reading Chapters 5 and 6.

2.2 Ans:

The client is intrinsically bound to the server and vice versa and this is inflexible in terms of dealing with failure, for example if the server fails and a backup server takes over managing requests. More generally, this level of coupling makes it hard to deal with change.

Clients and servers must exist at the same time and hence it is not possible to operate in more volatile environments when either party may be unavailable, for example disconnected in the case of a mobile node.

The benefits of space uncoupling is in providing more degrees of freedom in dealing with change, for example if a new server starts dealing with requests.

The benefit of time uncoupling is in allowing entities to communicate when entities may come and go.

2.3 Describe and illustrate the client-server architecture of one or more major Internet applications (for example the Web, email or networks).

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