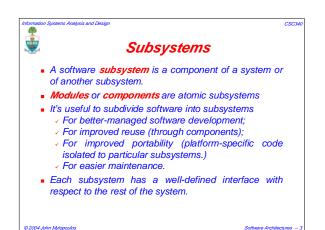


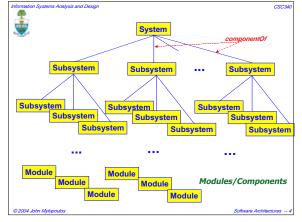
## Software Architectures

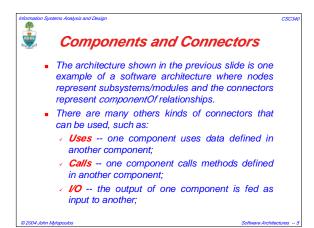
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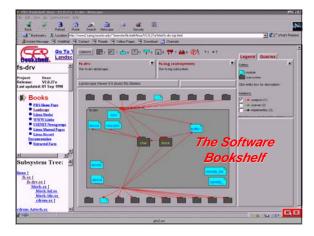
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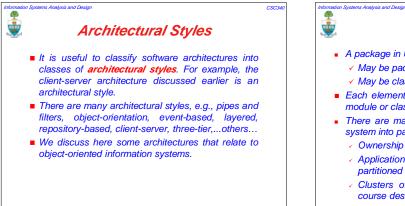
- A software architecture defines the components of a software system and their inter-dependencies.
- For example, the *client-server* architecture consists of servers that support services, *clients* that use services.
- With such an architecture, I/O is placed on clients, running on PCs and workstations; data storage is assigned to a server, implemented in terms of a DBMS (e.g., DB2) and placed on a mainframe or mini. Consistency checking is located with the server, applications run on clients.
- Thick servers offer a lot of functionality, thin ones little.
- Thick clients have their own services, thin ones get almost everything from servers.

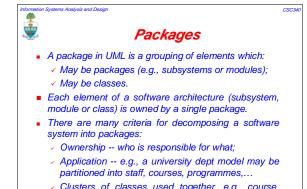




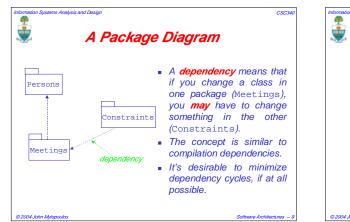


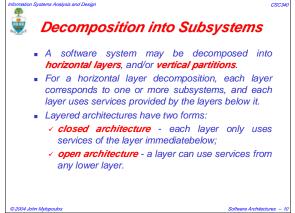


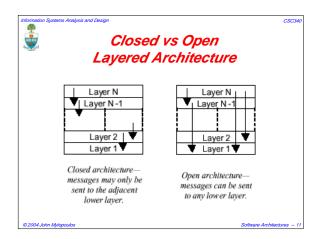


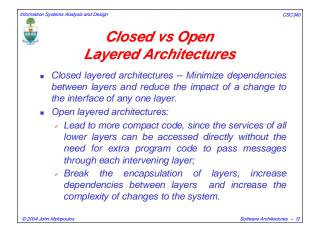










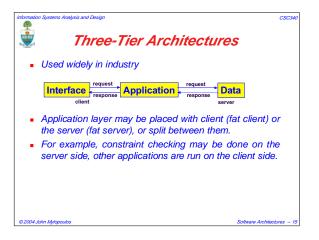


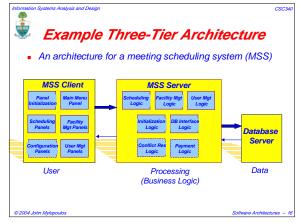
## **Client Server Architectures**

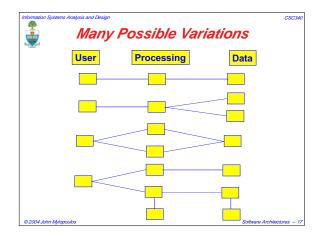
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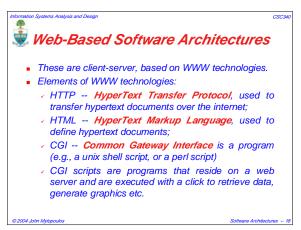
- A client server architecture consists of service consumers (clients) and service providers (servers). Clients and servers may or may not be running on dedicated machines.
- Information exchange between clients and servers is done through messages.
- Server establishes connection with each client (possibly several), accepts messages from connected clients and responds to each.

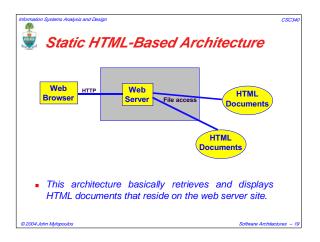


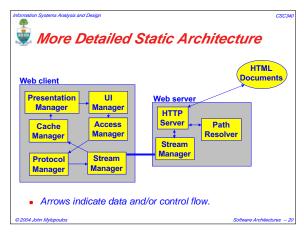


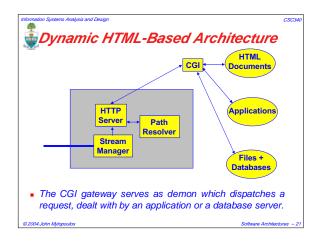


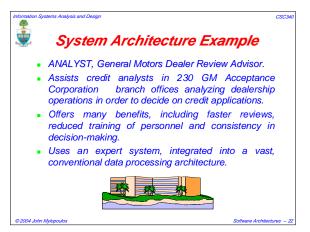


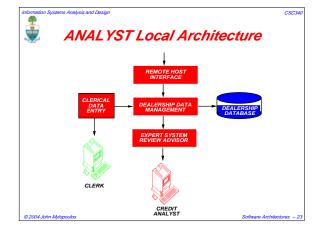


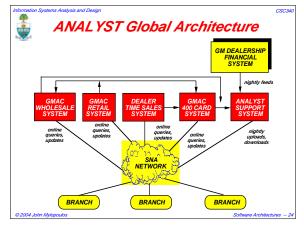


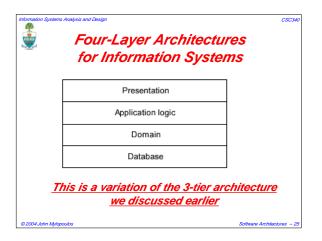


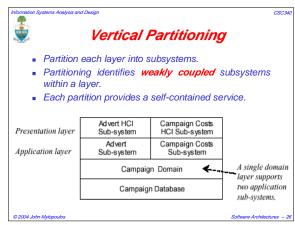


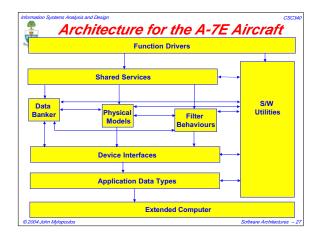


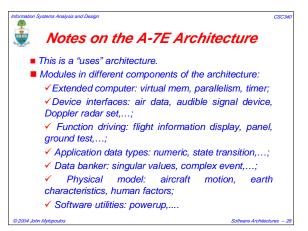


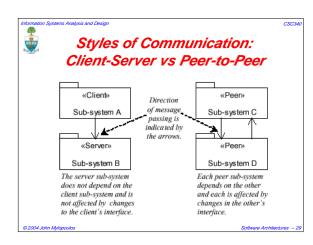


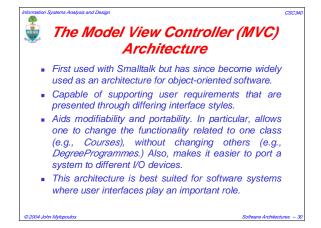


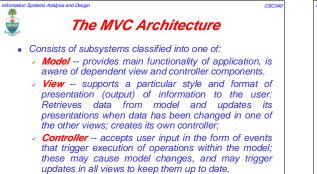






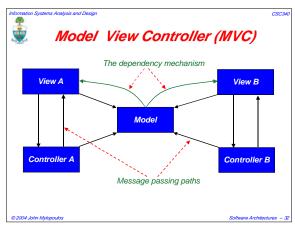


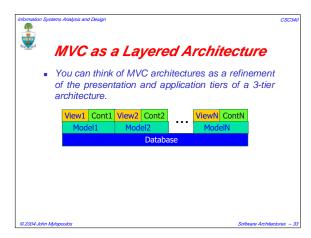


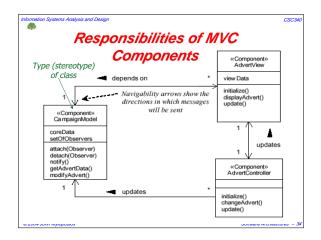


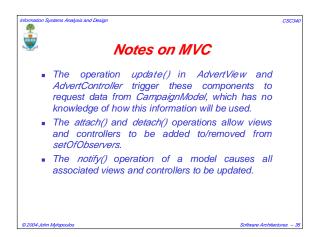
Dependency Mechanism: informs each view that the model data has changed, view must update itself.

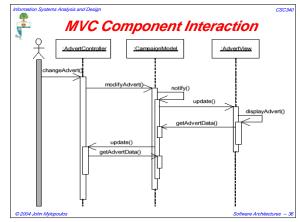
2004 John Mylop













Only the broker needs to know the location of the servers that it handles.

