

## Data flow diagrams

- Show how an input data item is functionally transformed by a system into an output data item
- Are an integral part of many design methods and are supported by many CASE systems
- May be translated into either a sequential or parallel design. In a sequential design, processing elements are functions or procedures; in a parallel design, processing elements are tasks or processes

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## DFD notation

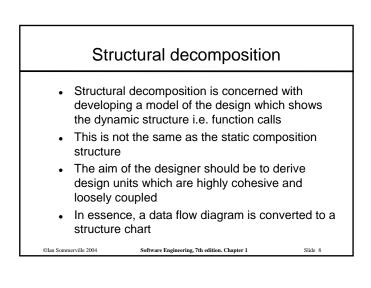
- Rounded rectangle function or transform
- Rectangle data store

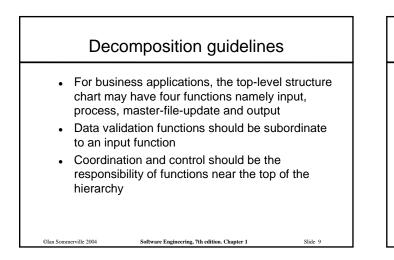
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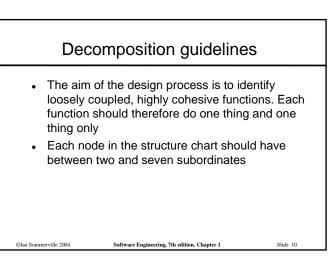
- Circles user interactions with the system
- Arrows show direction of data flow
- · keywords and/ or. Used to link data flows

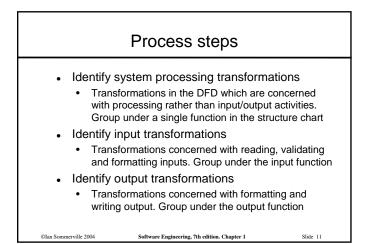
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## Order processing DFD Checked and Send to supr<sup>11</sup> Completed Signed order form Signed order for details blank Record order Complete order form Validate order Adjust available budget Order details Signed Order amoun details ©Ian Sommerville 2004 Slide 7 Software Engineering, 7th edition. Chapter

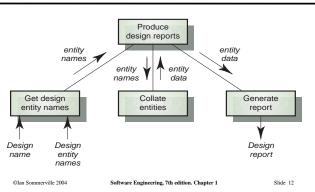


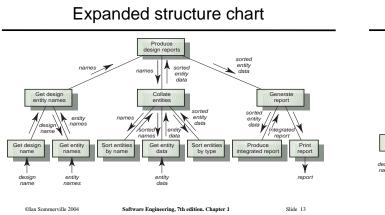






## Initial structure chart





Final structure chart

