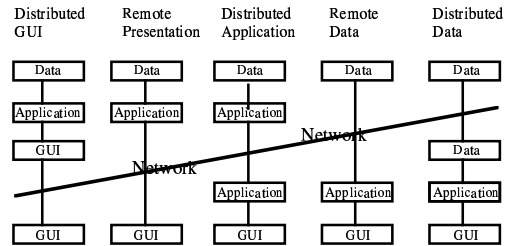
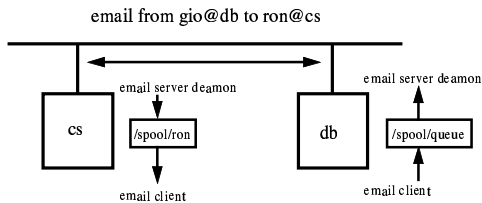


Distributed Architecture
 Definition Language
 DADL
 Ron Burback
 November, 1998

Client/Server Network Placement



SMTP based Electronic Email



What is the Problem?

- Architectures are defined with a few drawings, hand waving arguments, and English based document
- Not precisely defined
- Traditional programming languages concentrate on algorithms and data structures

The Solution?

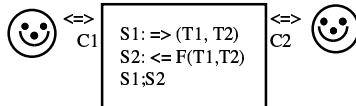
- We need a language that can describe distributed architectures.
- Extension to existing programming languages.
- DALD (Distributed Architecture Definition Language)

Architecture Definition

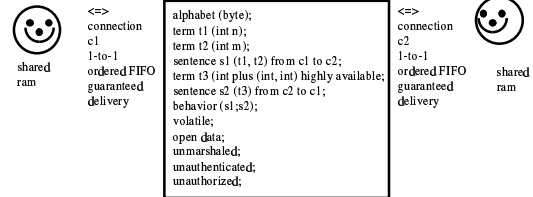
- The components and their interfaces, communication, and contractual behavior.
- Traditional programming languages concentrate on algorithms and data structures which define the components but do very little at defining interfaces, communication, and contractual behavior.

Some DADL Concepts

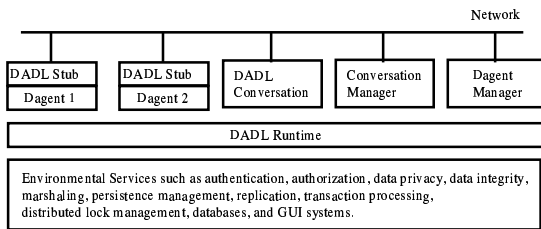
- *dagents* are the components
- a *contract* determines the *resources* and *performance* demands of a dagent
- *terms* and *sentences* build a *conversation* over *connections* which determines the *behavior*



Example: Plus



A DADL Environment



DADL Development

