### RPC implementation details

# What if client/server machines are different architectures and/or languages?

Need to convert everything to/from some canonical form and tag every item with an indication of how it is encoded (avoids unnecessary conversions)

→ Abstract Syntax Notation One (ASN.I)

#### How does client know which server to send to?

Need to translate name of remote service into network endpoint (IP, port)

- → Binding the process of converting a user-visible name into a network endpoint
  - Static fixed at compile time
  - Dynamic performed at runtime

## RPC transparency

### One goal of RPC is to be as transparent as possible

→ Make remote procedure calls look like local procedure call although binding can break transparency

#### What else?

- Failures remote nodes/networks can fail in more ways than with local procedure calls
- Performance remote communication is inherently slower than local communication