## Typical Distributed Systems Design Goals

## • Common Goals:

- Heterogeneity can the system handle a large variety of types of PCs and devices?
- Robustness is the system resilient to host crashes and failures, and to the network dropping messages?
- Availability are data+services always there for clients?
- Transparency can the system hide its internal workings from the users? (warning: term means the opposite of what the name implies!)
- Concurrency can the server handle multiple clients simultaneously?
- Efficiency is the service fast enough? Does it utilize 100% of all resources?
- Scalability can it handle 100 million nodes without degrading service? (nodes=clients and/or servers) How about 6 B? More?
- Security can the system withstand hacker attacks?
- Openness is the system extensible?