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1 Chap0

8Fallacies

1.Network Reliable. |PowerSupply, Hard-Disk, NodeFailures, Configurations, Bugs| Effect:applicationHangs, crashes |Countermeasures: Redundancy HW&SW systems,middleware &application; CatchExceptions, CheckCodes, React;Retry ConnectingUponTimeouts 2.LatencyZero.|Latency:timeForData Transfer(speedOfLight)& Bandwidth:howMuchData transferred 3.Bandwidth is infinite. 4.The network is secure. 5.Topology doesn't change. 6.There is one administrator. 7.Transport cost is zero. 8.The network is homogeneous

2 Chap1-CommunicationBasics

SOCKET

3 Chap2 EXTERNAL DATA REPRESENTA-TION

in OSI Presentation Layer

Heterogeneity

HW: Diff. HW architectures store bytes:Big Small Endian ProgrammingLanguage:Diff. PL store data types differently:AB, 0AB Transformation between representati-

Transformation between representations: Transformation between local and remote representations | Information may lost

Two realizations: 1.Pairwise transformation between n local representations(vollständigGraph, $\#n^2 - n$, Either sender or receiver has to transform) 2.Transformation to and from canonical representation(a single canonical C as intermediate representation|No local information about communication partner needed| #2*(n-2), -2if canonical is one of n)