- basic networking terminilogy still evolving Ethernet only a few years old

background for routing (next class)

[Saltzer82a] On Naming (RFC 1498) **C2221**

http://merlot.usc.edu/cs551-f12

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Key Ideas

Defining the terms (objects) for naming

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Give characteristics of names

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Mame: what you want Terminology

Binding: process of mapping a name to an address

address to IP address, C library call maps service to port, e.g., DNS maps host name to IP address, DHC maps MAC

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Context]: the state needed to do binding espectace to interface

Route/path: how to get there

ei fi eisess: where it is

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hosts (multiple websites on single computer), load balance = mobile hosts, web services, both for content and virtual

= Ex: users/services/machines move, processes start and

Naming and Change

if no change, things can be hard-coded

Maming only matters because things change

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easily transcribable vs. more difficult - memorable vs. not memorable - moderate length vs. long alphabetics vs. binary User friendliness - human readable

nuidne); probabilistically unique, not unique

Uniqueness: globally unique, unique in some context (locally

Characteristics of Names

DAM ,esensen hostresses, hostnames, DAM camens, hostnames, DAM camens and cam

Assigned from a central authority vs. distributed

Hierarchical vs. Flat

addresses, etc.

