

Lecture 3: Naming (2/13/07)

(Exponentials)

① **Systems**

- abstractions
- names

Slide 23
+
show instances of abstraction

local domain name
standard

② **Memory-mapped I/O**

dynamic seg.
static seg.

How to find context?
- implicit
- explicit

③ **Context**

resolve(n, c) → v
bind(n, v, c)

explicit
default

table
reverse
create(context)
create(n1, n2, c)

④ **Web names**

- Protocol
- DNS
- FS pathname

Why are names important?

- ⇒ sharing modularity
- sharing
- indirection

⑤ **URL**

pathname
↓
node
↓
data block

Slide 5-6
primary abstractions
Slide 7
names

⑥ **Computer names**

- addresses
- bad 1742, R1
- { READ, 1742, 102 }

⑦ **Model**

Names
binding
files

no → register
URL → web page
address → memory cell
http → do
dns → address

⑧ **3 steps**

- compilation
- linking
- loading & running

SS#
1-1 mapping?
synonym?
uniqueness?