Information Systems
ISM 3011
Spring 2004
Unit 7A

Assignment for Next Class

• Read Chapter 8
• Read and prepare the cases 1, 2, and 3.

The Internet
Chapter 7

Packet-based Transmission

The whole message is split into multiple packets

FROM: 123
TO: 129

Internet: The Basic Idea

Routing

FROM: FT. MYERS
TO: N.Y.C.

TO = Atlanta? No!
TO = Tampa? No!
TO = Orlando? No!

Tampa
Atlanta
ORlando
Post Office, Ft. Myers

N.Y.C.

TO = N.Y.C.? Yes -> deliver!

FROM: 123
TO: 129

Header
Data

123/129
123/129
123/129
123/129
123/129
123/129
123/129
IP Address

- Unique, numerical address for a computer (a connection) in a network.
- Example:
  - 170.124.233.14
- IP represents position in the network
  changes, when a service moves or the structure of the grid is being modified.

Domain

- Name for a host or service
  - e.g. www.fgcu.edu
- Is being translated by a Domain Name Server into an IP address
- www.fgcu.edu -> 207.203.214.28

Domain Names

- **www.fgcu.edu**
  - **Top Level Domain**
    - com, gov, mil, de, it, ca etc.
  - **Subdomains**
    - Name of the organization (e.g. “fgcu”)
    - Host name
    - others

Protocols

- **http://www.fgcu.edu**
  - Defines the type and content of the transmission
    - HTTP: Hypertext Transfer Protocol
    - FTP: File Transfer Protocol
    - SMTP
    - POP3
    - TELNET
The World Wide Web

- Document-based
- Hyperlinks between documents
- Support of multiple content types:
  - Text, pictures, sound,…

Hypertext Markup Language

```
<html>
<head>
<title>Page Title</title>
</head>
<body>
This is my FIRST HTML page...
</body>
</html>
```

A Simple HTML Document

Tags

Content

Important HTML Tags

```
<h1>Headline 1</h1>
<h2>Headline 2</h2>
<h3>Headline 3</h3>
<h4>Headline 4</h4>
<h5>Headline 5</h5>
<h6>Headline 6</h6>
```
Browser View

Google

Search Engines / Spiders

Java

Java Virtual Machine

Cryptography
Thank you!

The slides will be available on the internet at
http://ruby.fgcu.edu/courses/mhepp/
(-> CRN10033)