The MASTS Project The story so far ...

A lot of people lain Phillips doing the talking . . .

July 12, 2007

Talking about measuring a 10gig network is easier than actually doing it.

So what are the problems?

History

- Started 2005 (September (ish))
- LU, Cam, UCL
- Aim to capture packets, process and visualise results
- ► People come and go . . .

Problems

- ► The network is not 2.5Gig.
- Research Network or Network Research.
- Political Can we break the network?
- Legal Can we see the data?

Network Presentation

```
+---+
  |Monitor|-/
  +----+
```

Capture

```
+----+
|Switch | * | TELECITY
| <del>---</del>---+-<u>+--|</u>
|PC<----/ | Capture + Strip
I PC
        | Buffer
I PC
       |---Send to UCL--->
+----+ (Andrew Moore)
```

Capture

She hasnae got the power cap'n!

```
|Switch | TELECITY
----+
```

What is at UCL?

Architecture for Storage

Headers coming in at about 1gig/monitored direction

Architecture for Storage

Store after one week!

Storing Network Data

- ► There's a lot of it
- Compression
 - Kostas Kyriakopoulos
 - Wavelets for network data
- Processing
 - Distribution Matching
 - Intermediate Information
- Throw it away!!!!
 - Keep summaries and meta-data

Architecture for Visualisation

Not much time for this - see the demo http://courier.lboro.ac.uk/

Talk to Mark Withall

Legal

- Trailblazing the Legal Approval Process.
- JANET AUP based on work of the project.
- Andrew Cormack and UCL
- Saleem Bhatti.

Next Steps

- ► The MASTS project needs YOU.
- What data processing would you like?
- More than traffic traces?

- UCL continues until March
- LU until May
- Cam until October or so.

