Omero: User Interfaces in the Plan B OS

Laboratorio de Sistemas
lsub@lsub.org
http://lsub.org/who/

© Francisco J. Ballesteros et al. - Plan B

Mar 10, 2006
Roadmap

- Problems
- Ideas
- Examples
- Issues & Lessons
Problems

User Interfaces for Perv. Comp.:
- Combining old and new devices
- Programs for UI elements
- Generic tools for UI elements
- Giving control to users
Target environment
A omero screen

© Francisco J. Ballesteros et al. - Plan B

Mar 10, 2006

Pg. 5
UI elements as files

```
col:menu/
    ctl  data  button:Col/  button:Sel/  button:Arg/  button:Del/
        ctl  data  ctl  data  ctl  data  ctl  data
```
Users move and copy controls
Programs move and copy controls

```bash
cd /devs/screen1/col:player
tar c * |  
{ cd /devs/otherscreen/row:wins ;
  tar x  
}
```
More things can be done:

- search for buttons:
  
  ```
  du -a /devs/screen | grep 'button:'
  ```

- press a button:
  
  ```
  echo press >/.../button:Play/ctl
  ```

- Change its label:
  
  ```
  echo pause >/...button:Play/data
  ```
Complexity

Tools get easy:
- clock: 98 lines of C
- player: 482 lines of C

Service gets easy:
- omero: 7052 lines of C
Issues

Aliens, mostly.

• An omero for the web
• UI automations
Questions?

More information via our httpd

http://lsub.org

...we call our logo “The fish”