

Equalizer

Quickstart and Demonstration Guide

Building Equalizer

- Get source tree from svn repository
- Linux, Mac OS X:
 - `cd src; make`
 - set library path as printed by make
 - see also src/README
- Windows:
 - Build src/VS2005/Equalizer.sln

Running the Server

- Linux:

`./server/eqServer.<arch> [configfile]`

- Mac OS X:

`./server/eqServer [configfile]`

- Windows:

- debug 'Equalizer Server'

- OR: build\VS2005\win32\debug\eqServer

Running the eqPly Example

- Linux:

```
cd src/examples/eqPly; ./eqPly.<arch>
```

- Mac OS X:

- start X11

```
cd src/examples/eqPly; ./eqPly
```

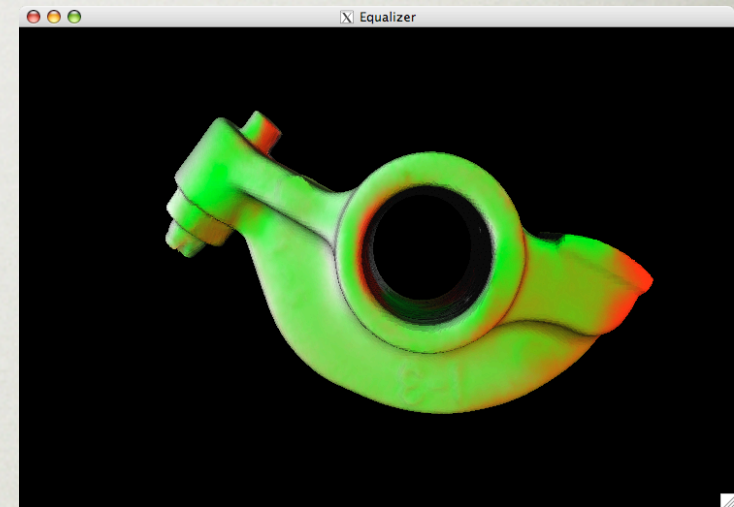
- Windows:

- debug 'eqPly Example'

- OR: build\VS2005\win32\debug\eqPly Example

Running the eqPly Example

- eqPly runs now with default config
 - one window, one pipe thread, one process
- Left mouse button rotates
- Middle mouse button zooms
- Right mouse button moves
- Exit by pressing <Esc>, all three mouse buttons or using window close button

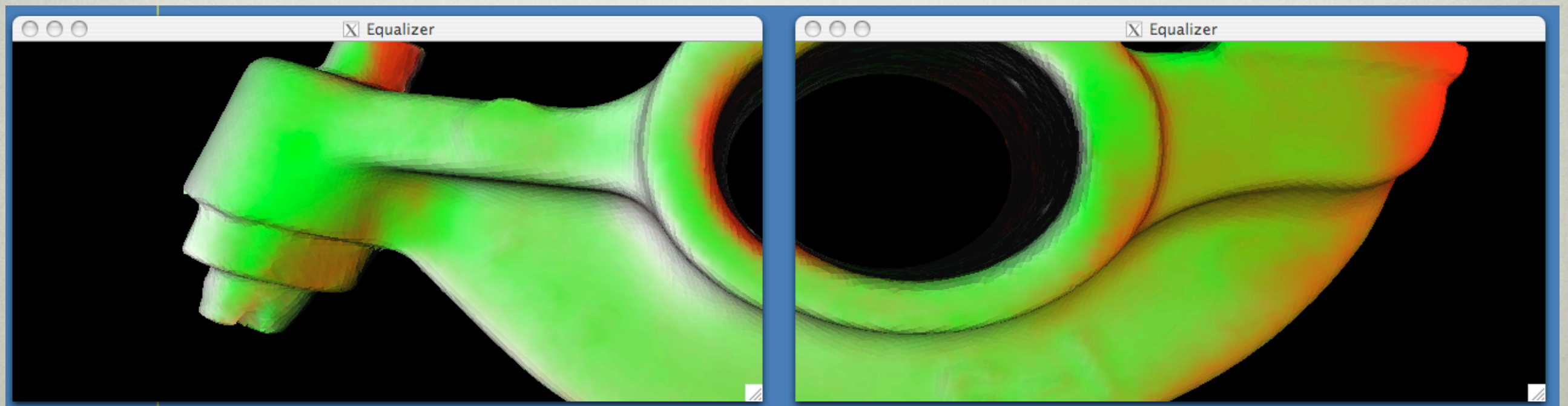


Exploring Equalizer

- To use a different config:
 - exit eqPly; stop server
 - start server with new config:
`./server/eqServer examples/configs/2-window.eqc`
 - run eqPly again
- Load model with '--model <name>'
- Sample Models at www.cyberware.com

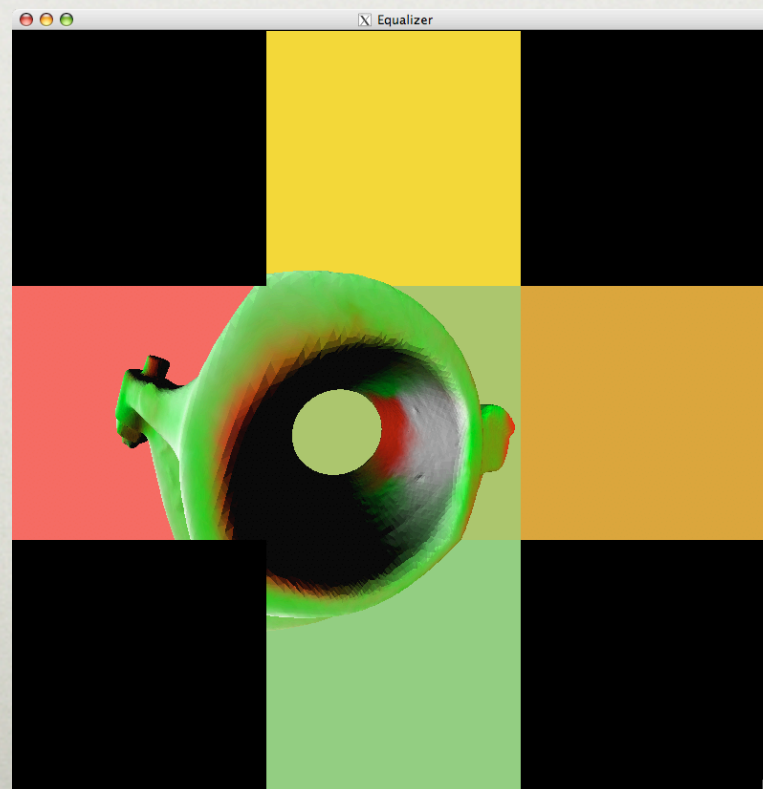
2-window

- Two windows, one pipe thread
- Compound wall description to produce side-by side image



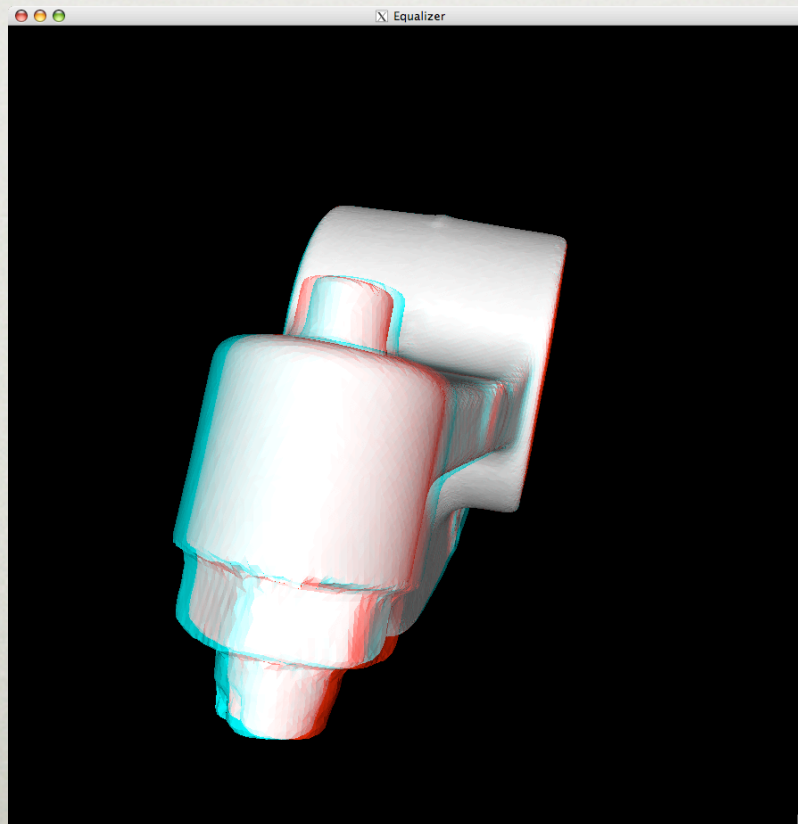
2-window

- Set EQ_TAINT_CHANNELS to get channel background color
- One window, five channels
- Simulate a CAVE™ on a single PC



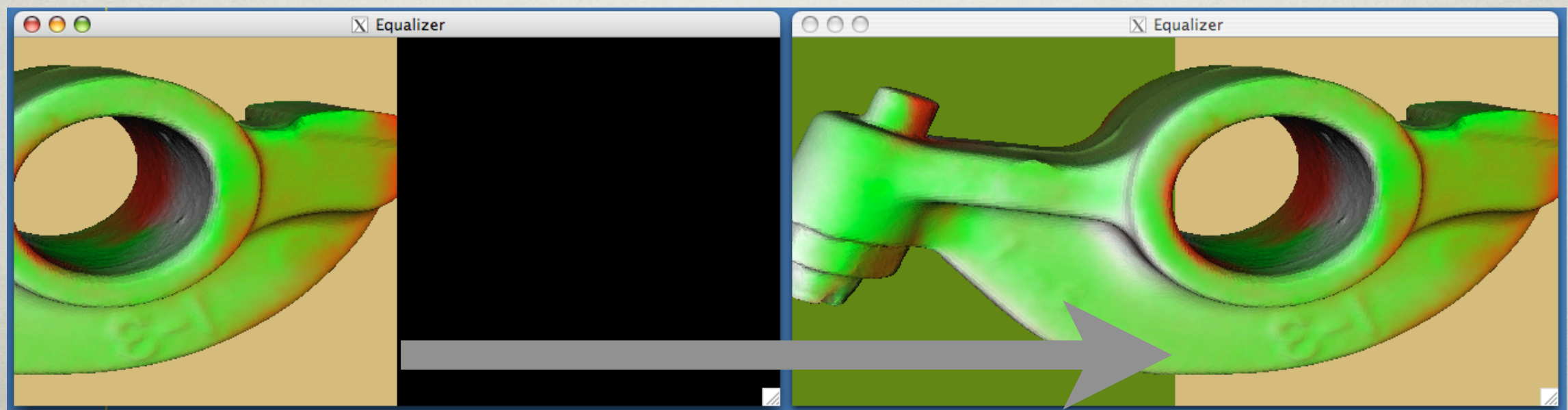
1-pipe.stereo.anaglyph

- Start eqPly with option -b
- Use anaglyphic (colored) glasses
- Two sequential eye passes on the same channel



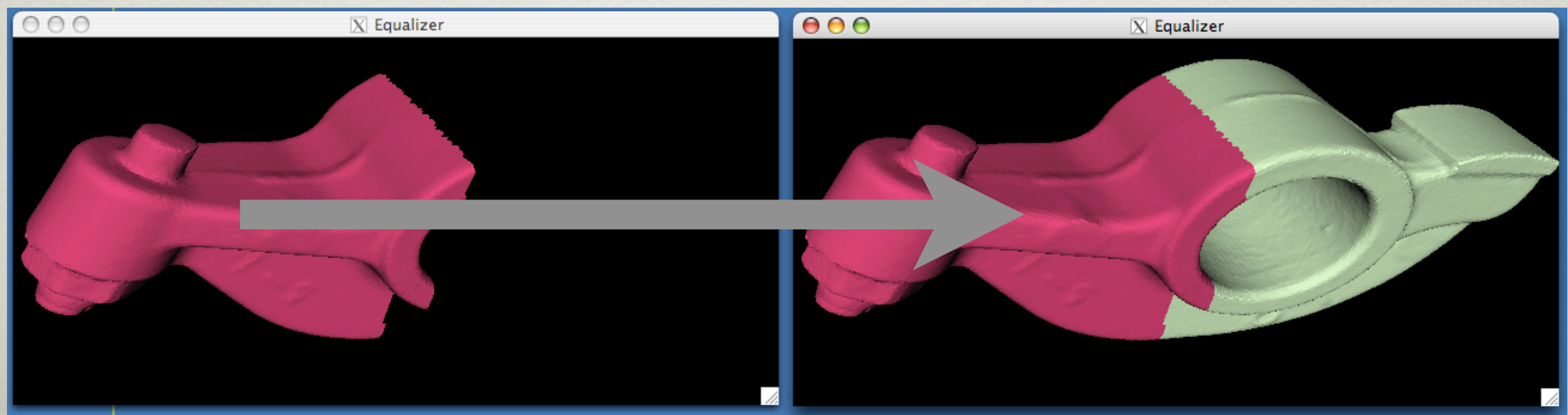
2-window.2D

- Left window renders half of the viewport for right window
- For deployment, windows are on separate pipes (GPUs) for scalability



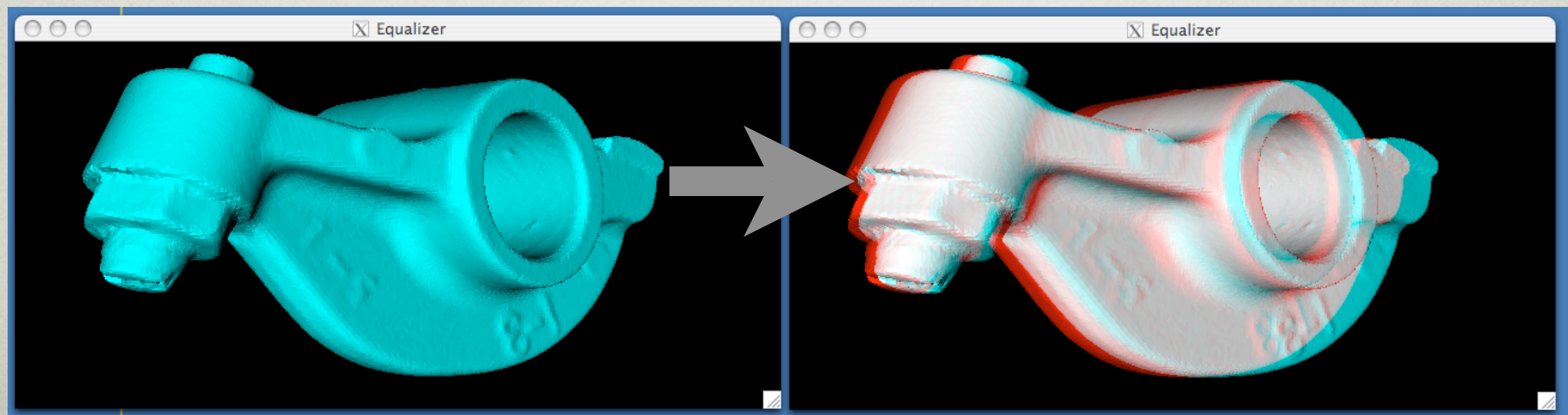
2-window.DB

- Left window renders part of the data for right window
- Coloring is automatic and intended
- Data is combined using Z-Buffer information



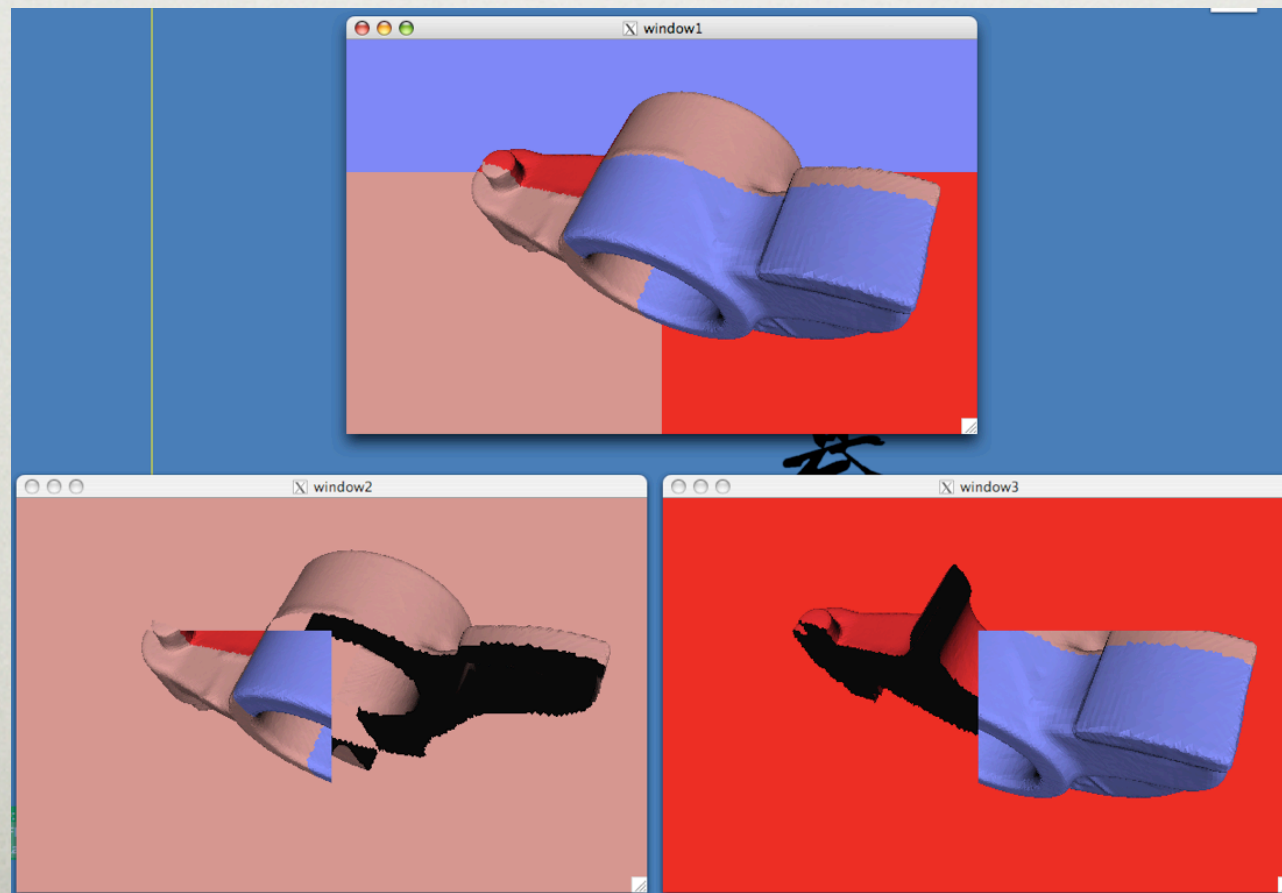
2-window.EYE.anaglyph

- Left window renders right eye
- Right window renders left eye
- Very good scalability on two pipes



3-window.DB.ds

- Parallel compositing (direct send)
- Each channel renders and composites
- Run 4-window.DB.bs for binary swap



Next Steps

- Multi-node configurations need password-less ssh setup
- Change hostnames to reflect your setup
- Active stereo configs require stereo visuals, i.e., high-end graphic cards
- Config file specification is available online