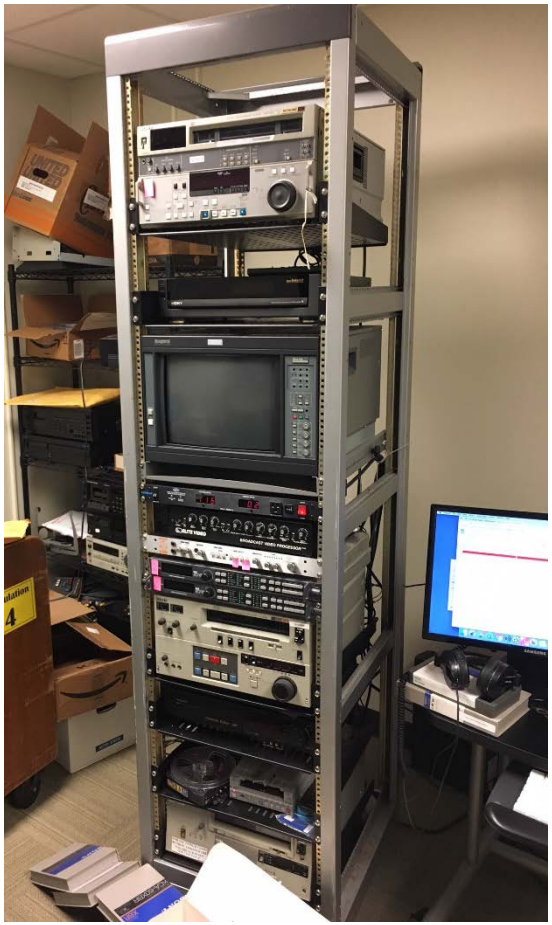
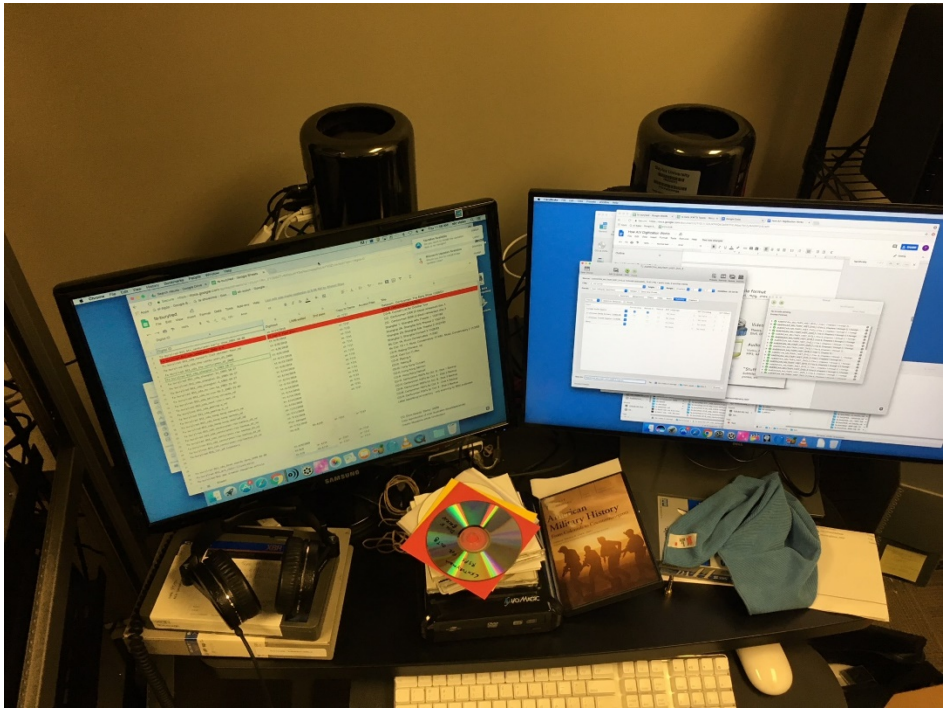




AIMING FOR PERFECT…BUT CONTENT WITH PRACTICAL!

VIDEO PRESERVATION AT BUIOH

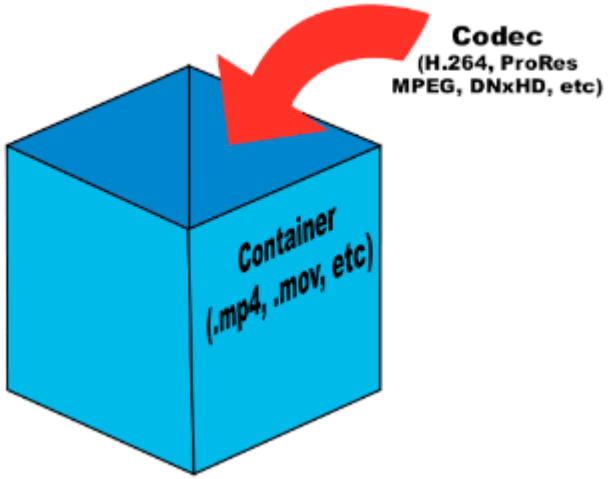
STEVEN SIELAFF
SENIOR EDITOR & COLLECTION MANAGER
BAYLOR UNIVERSITY INSTITUTE FOR ORAL HISTORY

The Decision: Audio vs Video

- Is it Required?
- What is the Impact?
- Extra Personnel
- Extra Equipment & Training
- Extra Storage Footprint
  - Audio hour = 1 GB or less,
  - Video hour (HD) = 15-30 GB

Video Formats

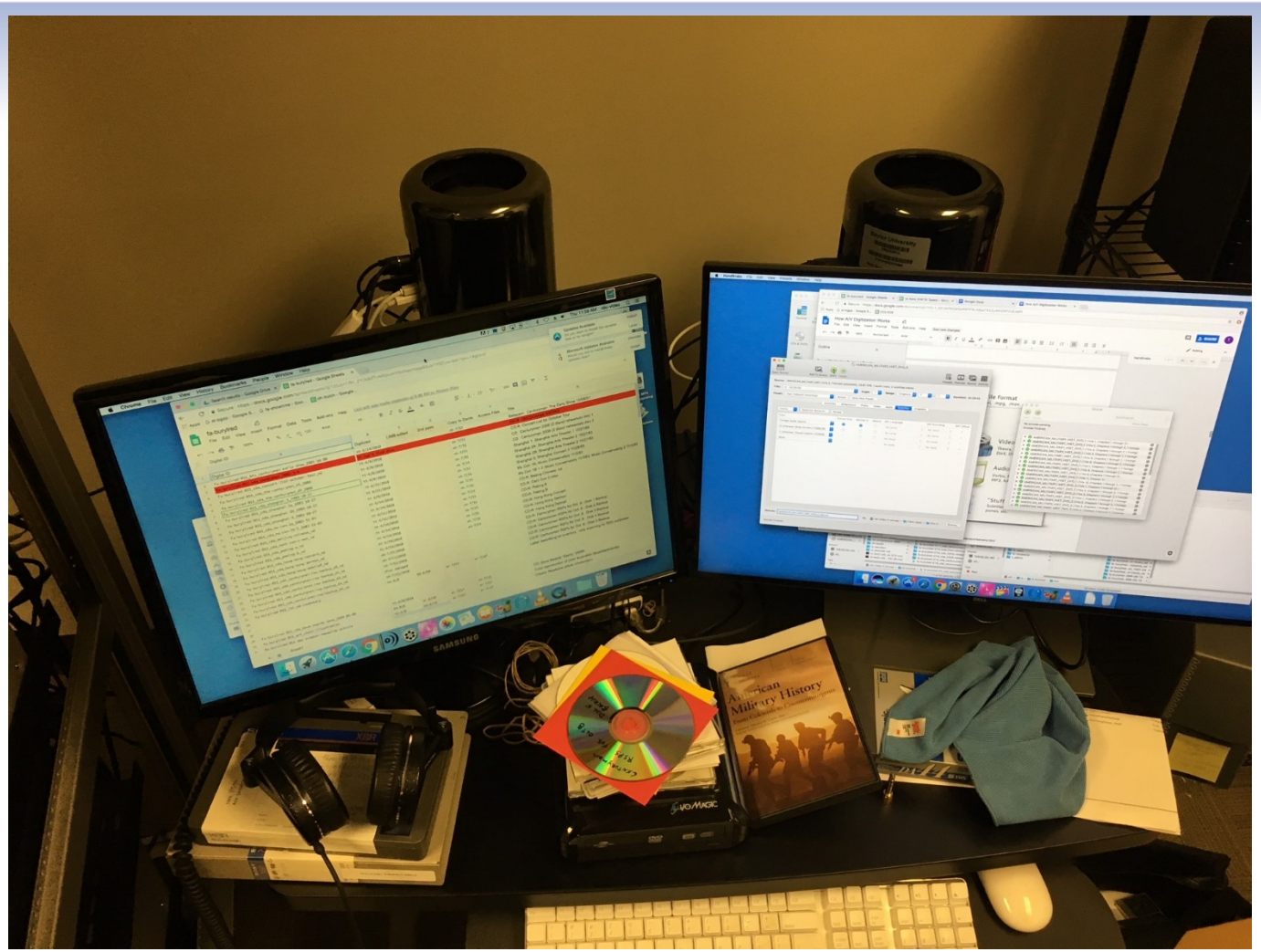
Video oral history records consist of many formats, compression schemes & codecs!



PC vs MAC Issue

- Containers - AVI (PC) vs MOV (Mac)
  - Video drifts toward Mac culture
  - AVI prioritized years ago by LoC
  - MOV proprietary, but agreeable in Macland + Quicktime (also Apple support)
  - Both systems represented in Baylor Digital Library & BUIOH, but Macs do the video work

MacPro Workhorses



Preservation Priorities

I. Size

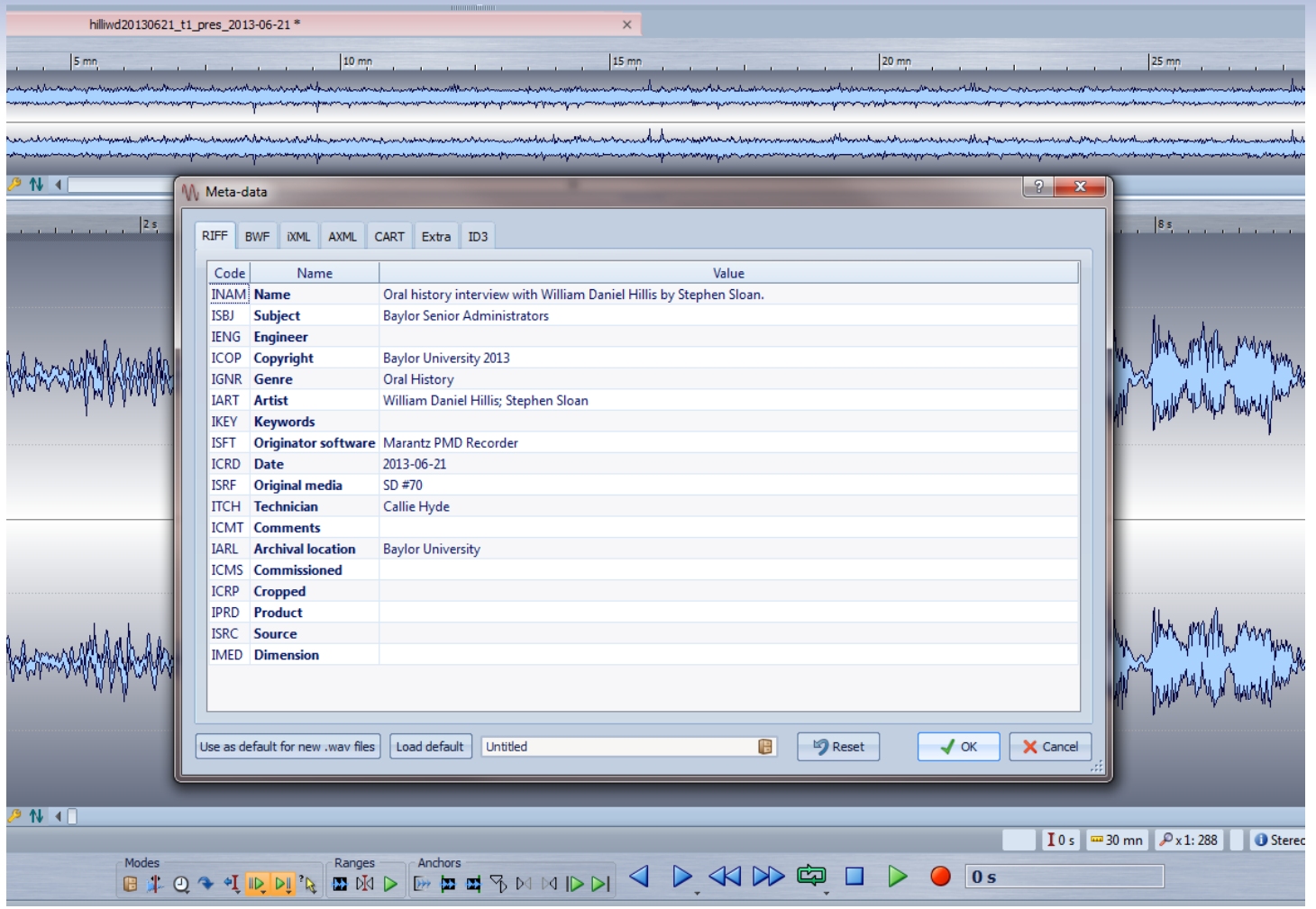
File stats for 3 codecs, compared to uncompressed:

- Uncompressed 100 GB/hour
- ffv1 45 GB/hour
- ProRes422 20 GB/hour
- H.264 MP4 1 GB/hour

II. Location

III. Accessibility

IV. Metadata


hilliwd20130621_t1_pres_2013-06-21 *
5 mn
10 mn
15 mn
20 mn
25 mn
Meta-data
RIFF
BWF
iXML
AXML
CART
Extra
ID3
Code
Name
Value
INAM Name Oral history interview with William Daniel Hillis by Stephen Sloan.
ISBJ Subject Baylor Senior Administrators
IENG Engineer
ICOP Copyright Baylor University 2013
IGNR Genre Oral History
IART Artist William Daniel Hillis; Stephen Sloan
IKEY Keywords
ISFT Originator software Marantz PMD Recorder
ICRD Date 2013-06-21
ISRF Original media SD #70
ITCH Technician Callie Hyde
ICMT Comments
IARL Archival location Baylor University
ICMS Commissioned
ICRP Cropped
IPRD Product
ISRC Source
IMED Dimension
Use as default for new .wav files
Load default
Untitled
Reset
OK
Cancel
Modes
Ranges
Anchors
0 s

Current BUIOH Policy

Born-Digital Video

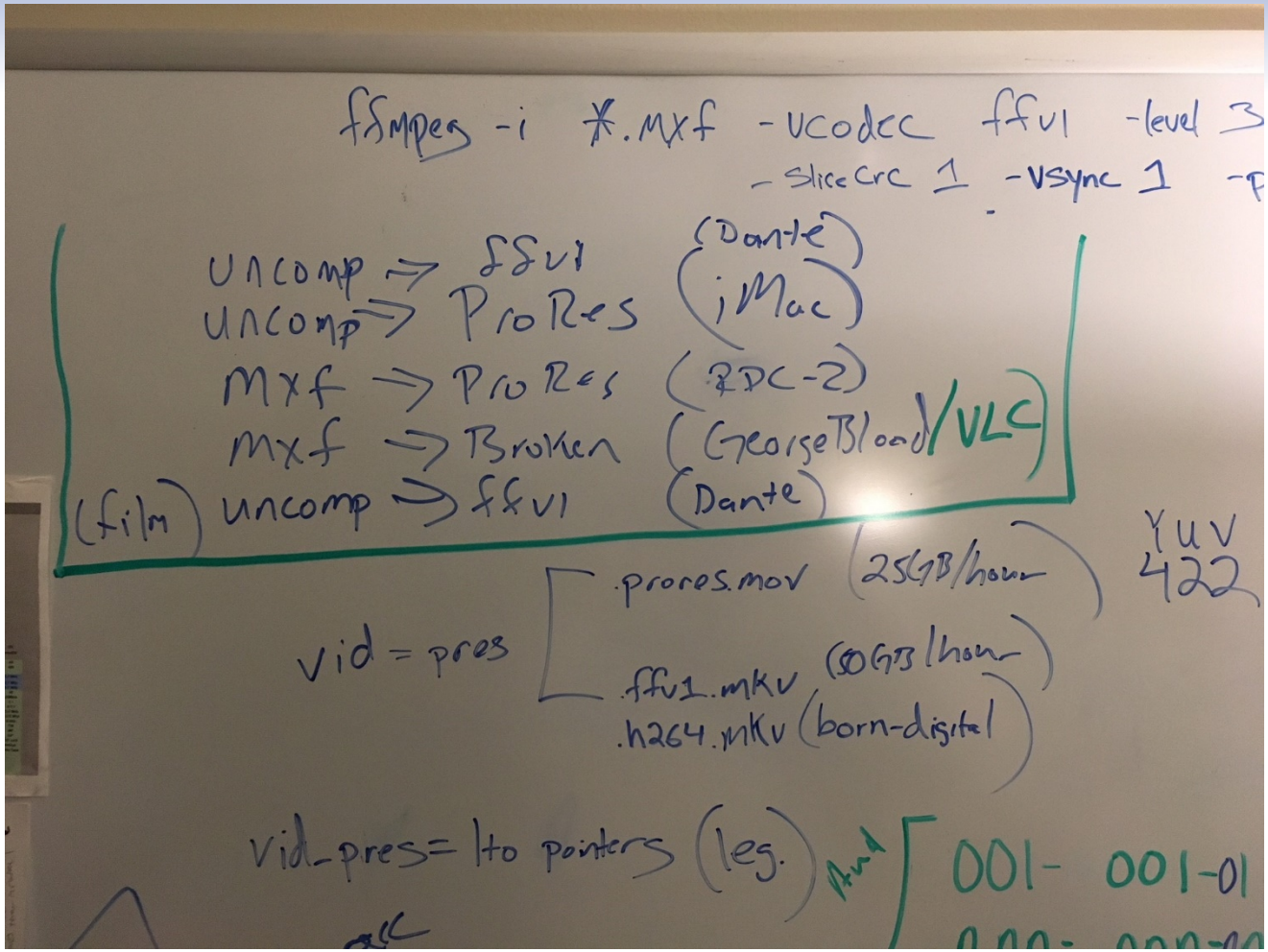
Workflow

1. Record in h.264 MP4 tracks (currently 1080p @ 35mbps)
2. Digital Library concatenates tracks into master
3. Optional MKV wrapper for metadata (submitted as Google Sheet fields)
4. Master placed on spinning disk
5. Optional automated MP4 access copy process

Current BUIOH Policy

Digitized Video

Experimentation Phase



Experimentation Phase

FFV1 codec + Metroska (MKV) Video wrapper

- Metadata fields needed?
- Worth the extra step?
- Worth the extra size?

Shift to ProRes 422

- Best compression for the file size
- Virtually lossless
- Works well with Final Cut Pro
- Able to keep it on spinning disk (1/2 the size)

Workflow

1. Create uncompressed files through digitization
2. Transcode to Pro Res 422
3. Apply MOV wrapper w/ Name field MD only
4. Move to spinning disk
5. Delete raw files (LTO backup option)
6. Optional automated MP4 access copy process

…Any Questions????