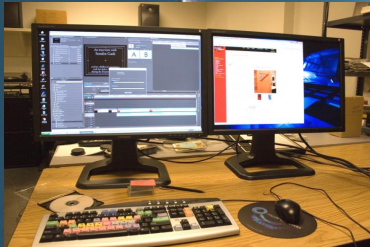


Digital Media Encoding for Sound and Moving Images



IJS Matrox Video Encoder

RUL Cabinet Meeting – Tuesday, November 7, 2006

Presented by the RUcore Multimedia Standards Working Group





Overview

- Equipment review, and why we need it
- Capabilities and Advantages
- Current projects
 - Video Demos
- Future Concepts and Possibilities
- Q&A

Equipment review

The Matrox Axio encoder system

- High performance computing workstation
- Encoder hardware
 - Installed inside workstation
- “Breakout Box”
 - Adaptable to multiple A/V inputs and outputs



Equipment review

The Matrox Axio encoder system

- Can create multiple digital formats
 - RealPlayer
 - Quicktime
 - Flash Video (i.e. Google Video)
- Processed video can be sent back to DVD or Tape.
- Cost: Approx. \$62,000



Capabilities & Advantages

Preservation-Grade Digital Video

- Can create high-quality, digitized video out of many different analog or digital formats, with minimal or no loss in quality



Capabilities & Advantages

Preservation-Grade Digital Video

- The system can meet our exacting demands for preservation-level video.
- Most “MovieMaker” packages for home computers produce lower-quality video, which is fine for personal home movies, but not for long-term preservation.



Capabilities & Advantages

Preservation-Grade Digital Video

Uncompressed Digital Video can
take as much as 1GB of hard drive
space **per minute!**

(Even more space is required for High Definition content)

- Most current typical computers cannot process that much data.



Capabilities & Advantages

Preservation-Grade Digital Video

To meet the challenge of preserving Moving Images, we needed a system that offers:

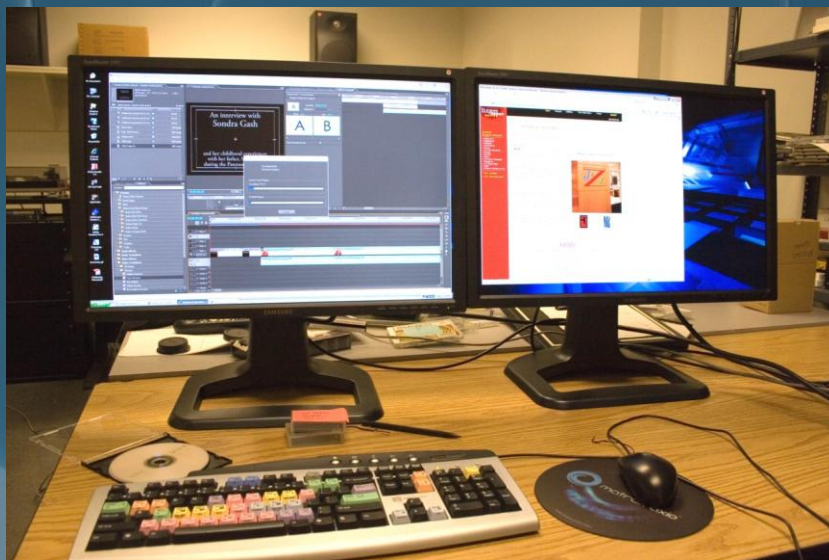
- Lots of hard drive space
- Heavy number-crunching ability
- Able to “speak” the many different languages of moving images: S/VHS, DV, and inputs for analog film-to-digital.



Capabilities & Advantages

Preservation-Grade Digital Video

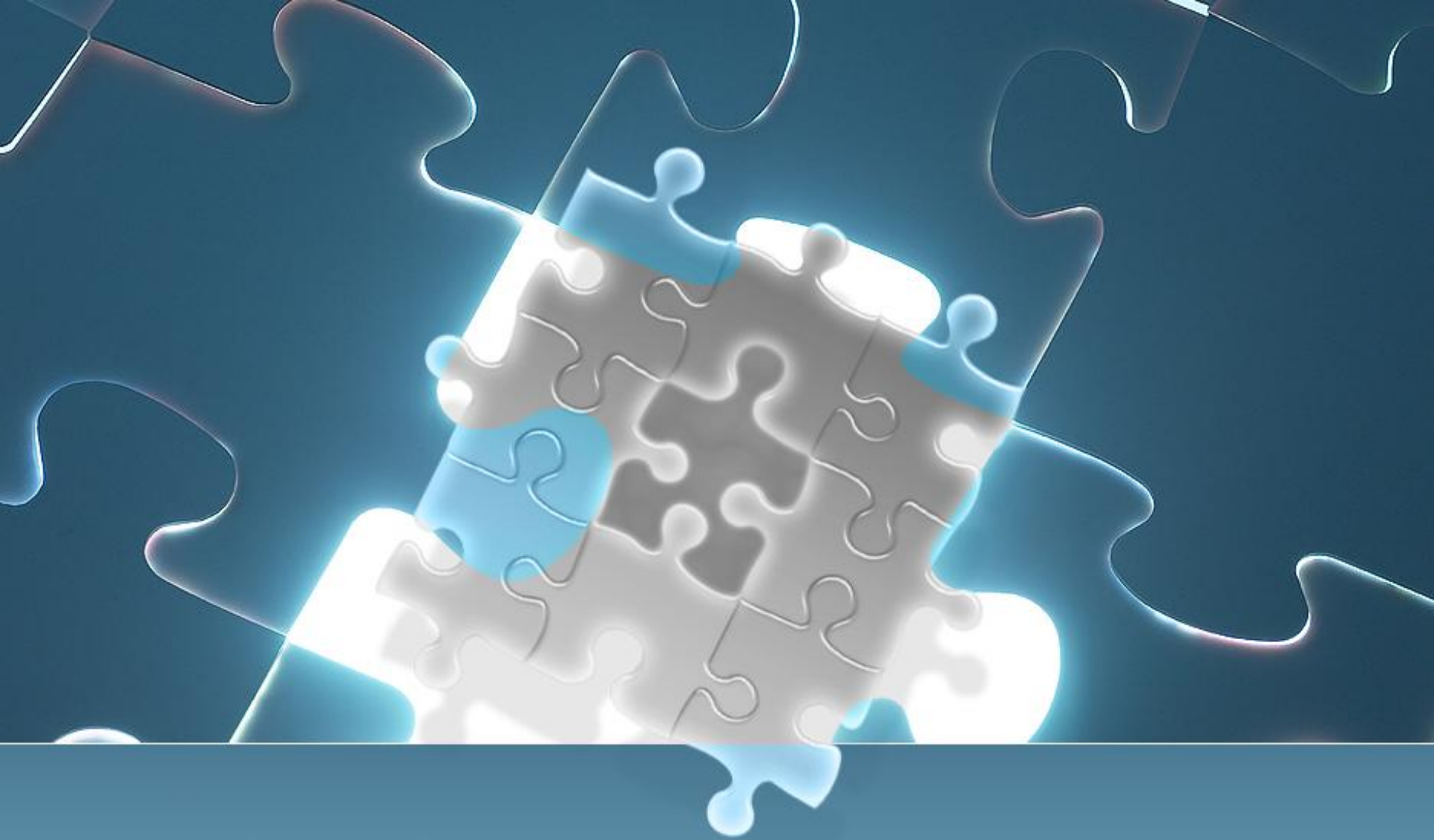
The Matrox Axio encoder meets the technical requirements needed to handle uncompressed video.



Current/Planned Projects

What have we been working on?

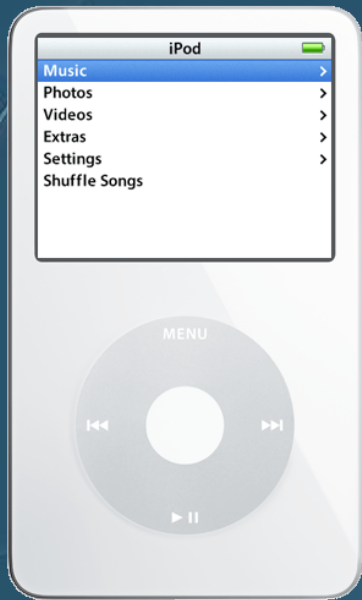
- **New Jersey Digital Highway**
 - American Labor Museum – Oral Histories & Interviews
 - Seabrook Farms – Presentation on WWII Experiences
- **Institute of Jazz Studies**
 - Jazz Oral History Project (audio)
- **Dana Library**
 - Interview and presentations on art demos



Video Object Demos

Possibilities for the Future

Video distribution to mobile devices



iPod

+



Matrox

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Video anywhere!

Possibilities for the Future

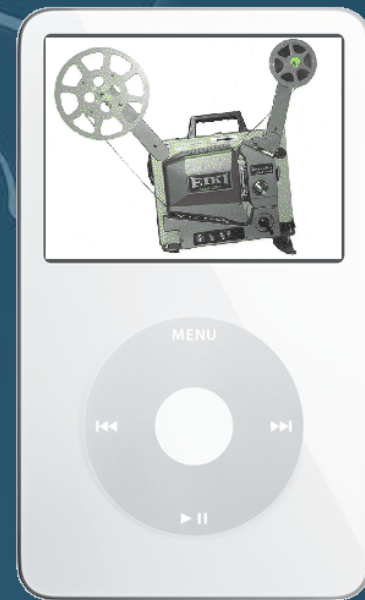
Preserving our Analog Film Collection



+



=



Analog Film

Matrox

Digitally Preserved
Movies

Possibilities for the Future

Interdepartmental collaboration



+



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Other departments create.

We store, preserve and make accessible.

Video encoding and preservation



One piece that fits many collection puzzles.

Questions?