Events

- SuperComputing 2004
- NAB2005
- ResearchChannel Annual Meeting
  - Sep 17-19 2005 Philadelphia
- iGrid/APAC
  - iGrid Sep 26-29 San Diego USA
  - APAC Sep 26-30 Gold Coast Australia
- 5 way uncompressed HD
Uncompressed HD

• HD-SDI
  – Sony HDV camera
• AJA Xena Cards (medium cost)
  – multiple frame delay
  – good driver support
• BlackMagic Designs (low cost)
  – poor open source driver support
• Two software variants commonly used
  – Uni of Washington/ResearchChannel
  – ISI Ultragrid
• Expensive and bandwidth intensive
  – 1.5Gbs streams
Compressed HD

- HD-SDI
  - Hardware compress using Evertz equipment
    - 1.5Gb to 270Mb
    - Decompress to HD-SDI for display
- HDV 25Mbs long GOP MPEG2 stream
  - WindowsXP/SP2 and Videolan
    - http://www.videolan.org
  - Sony directions in long GOP MPEG2
HD content

- Capture
- Editing
  - Final Cut Pro supports HDV native editing
- Windows Media HD
- Quicktime HD
- 50i or 60i?
NAB 2005 report

- http://www.nab.org/
- 102,000 delegates
- Massive tradeshow filling the Las Vegas convention centre
- Interesting technology
  - FOR.A virtual studio
    - http://www.for-a.com/
  - Sony
    - 1080i HDV
  - Panasonic
    - 740p HDV
  - MPEG4 HD set top boxes
  - Apple
Challenges

• Latency
• Cost reduction
• Content capture and storage formats
• Interoperability between implementations
• More open code bases
• Mailing list
  – http://hdtv.nm.gist.ac.kr/
• Thank you