







VideoLocus Inc.

AVC Real-Time SD Encoder Demo July 2002



1st Realtime JVT SD Encoder

- MPEG-4 Part 10/H.264 (WD2R8-compliant)
- Real-time video encoder
- Standard definition (720x480)
- Full frame rate (30 f/s)
- DVD quality
- Very low bit rate (near 1 Mbps)









Invitation to See Demo

- JVT Meeting, Klagenfurt
- Time & Place to be assigned.
- Lowell Winger

local address July 22-26, 2002:

Hotel Europa

Villacher Straße 222, A-9020 Klagenfurt

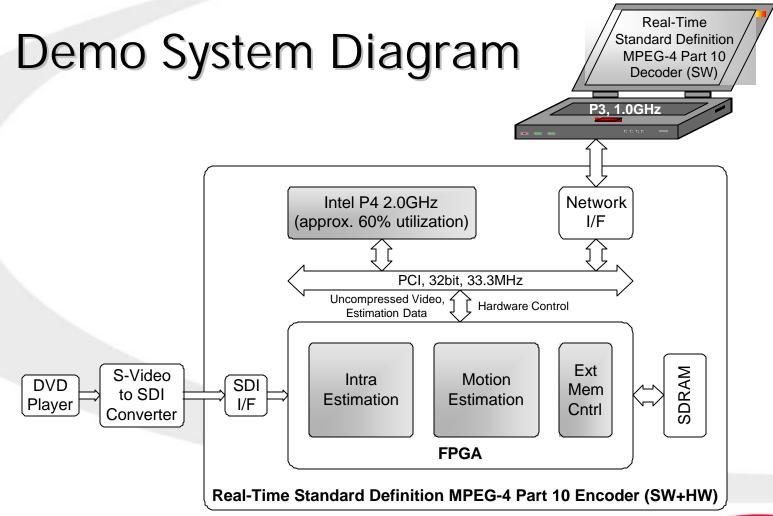
Telefon: ++43 (0)463/22 97 22-0











Doc. JVT-D023.ppt, 4th JVT, Klagenfurt, July 22-26, 2002 p. 4





H/W Assisted S/W Implementation

- I and P frames (B frames in development)
- No Intra8 modes (in development)
- Full, ½, and ¼ pel Motion Estimation
- VLC (CABAC in development)









Demo Encoder H/W Functions

- Intra Estimation
- Motion Estimation
- Skip Estimation
- Estimation Decision
- Memory Controller
- Video Input
- Host Interface (PCI)





Demo Encoder S/W Functions

- Transform/Quantize
- Inverse Quantize/Inverse Transform
- Motion and Intra Compensation
- Loop Filter
- VLE
- Rate Control (adaptive quantization VBR)
- Frame-level compression decisions
- UDP/IP multicast compressed stream output









In Development

- CD and FCD compliance
- B frames support
- Extended Motion Estimation
- Enhanced Rate Control
- Entropy Coding H/W Assist
- System-level packaging and audio
- Pre- and post-processing filters
- Sub-real-time HD encoding





Evaluation Platform

- VideoLocus will sell MPEG-4 Part 10 (AVC) Evaluation Platforms
 - Real-time SD encoder hardware platform
 - Real-time SD software decoder (P3, 1000MHz)
 - AVC stream analysis tools
 - Features complete set of coding tools (beyond current demo)
- Suitable for evaluating AVC in several scenarios
 - Analyze AVC use in Broadcast, Web Streaming, and DVD Authoring applications
 - AVC decoder qualification and verification platform
- Tracks compliance with evolving standard
 - Leverages programmable environment
 - VideoLocus will issue updates that track changing standard
- Availability starting in Sept 2002

p. 9





About VideoLocus Inc.

- Technology: VideoLocus develops next generation video compression products and technologies, emphasizing very low bit rate, high quality, full resolution, and full frame rate applications
- Applications: VideoLocus technology drastically reduces the cost and enables entirely new applications in consumer electronics, next generation DVD, DSL transmission, security/surveillance, TV-over-Internet, and many other storage and communications markets
- Standards: VideoLocus is dedicated to open, standards-based technology implementations and is an active leader in international industry standardization efforts





VIDEOLOCUS)







Questions? More Info?

VideoLocus Inc.

97 Randall Dr.

Waterloo, ON, Canada, N2V 1C5

Tel: +1.519.725.9797

info@videolocus.com

http://www.videolocus.com