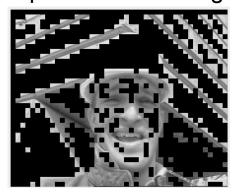
Type of optimization & Details of implementation

Intra Mode

- Using 4x4 and 8x8 Spatial Prediction
- Y and CbCr
- Choice defined by 8x8 Block Entropy to Mean Picture Entropy comparison
- Example for possible Encoding scheme



Problem: Quantization introduces error
→ 4x4 prediction is especially vulnerable,
error propagates through image
Solution: Integer DCT (sadly no time left :()

4x4 AVC Spatial Intra Prediction











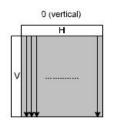


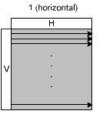


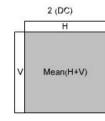




8x8 AVC Spatial Intra Prediction







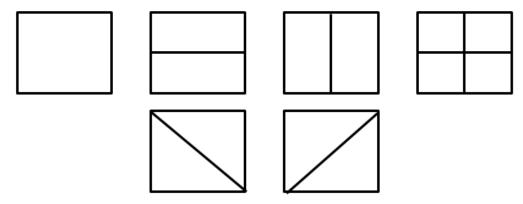
Source: 4x4 Pred. fig T. Wiegand (TU Berlin) — Image and Video Coding: Advanced Intra Coding 8x8 Pred.

Details of implementation

Inter Mode

- Two Dimensional Logarithmic Search, supports: square, rectangle and triangle
- 6 Different Motion Compensation Modes

6 Motion Compensation Modes



- Best Matching Block (least error) calculated & transmitted
- DC Prediction in Trafo Domain

RD Curves

