

Chapter 5

Experiment Results

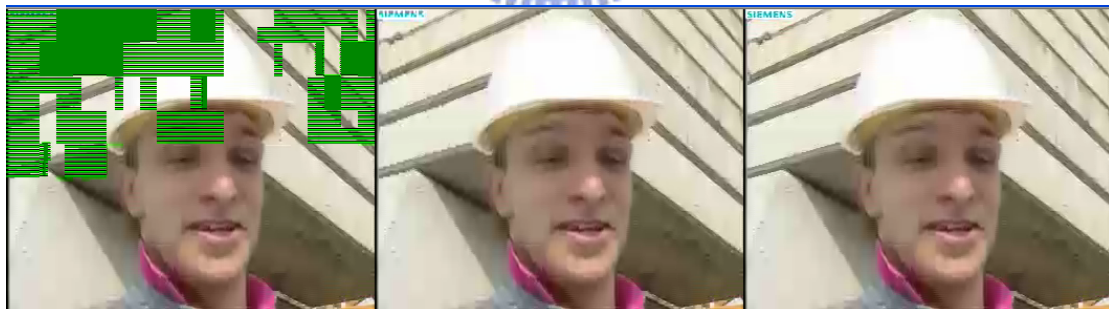
5.1 On Base Layer

In this section, base layer results are shown and their comparisons with frame coding are given.

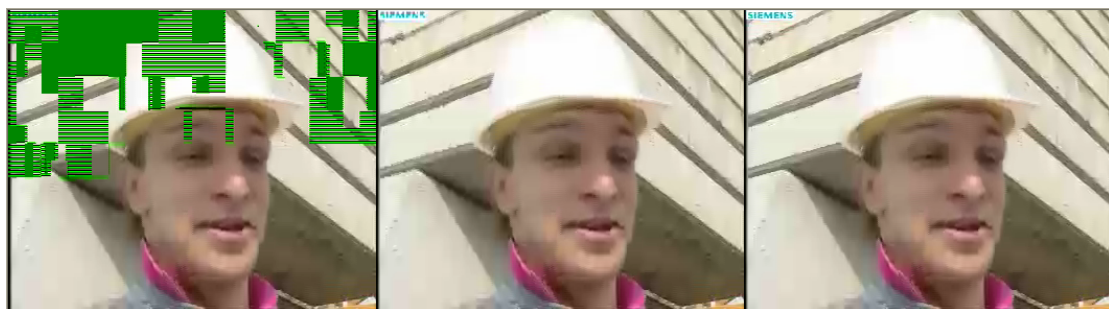
FrameNo. 0



FrameNo. 1



FrameNo. 2



FrameNo. 5



FrameNo. 6



FrameNo. 46



FrameNo. 47



FrameNo. 184



FrameNo. 185



FrameNo. 186



FrameNo. 187



FrameNo. 219



FrameNo. 220



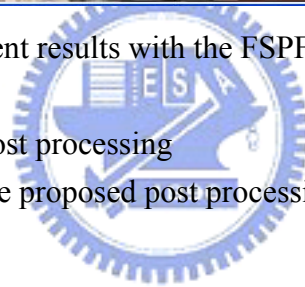
Fig 5.1 Base layer experiment results with the FSPFC structure (Foreman)

PLR= 0.016

Left: loss without post processing

Middle: loss with the proposed post processing method

Right: no loss



FrameNo. 6



FrameNo. 7



FrameNo. 8



FrameNo. 10



FrameNo. 11



FrameNo. 12



Fig 5.2 Base layer experiment results. Comparison between the FSPFC structure and the frame coding structure

(Test sequence: Foreman). PLR= 0.016

Top-Left: loss without post processing with frame coding

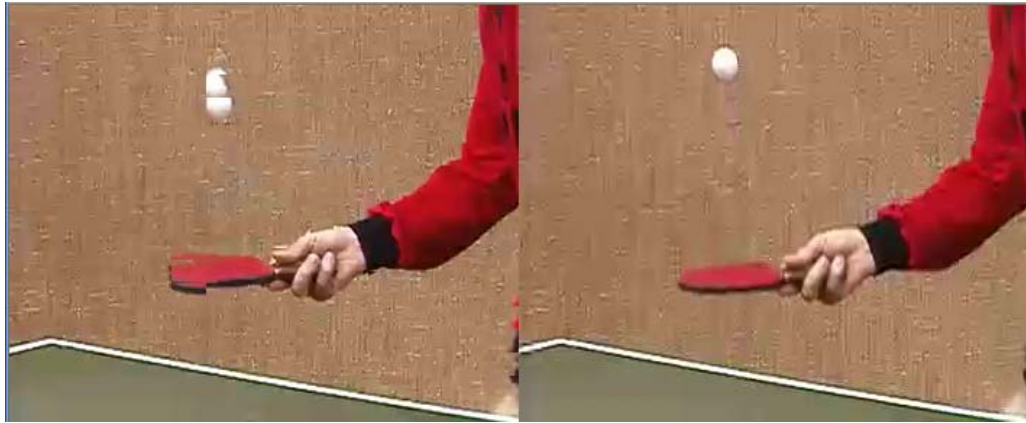
Top-Right: loss with post processing with frame coding

Bottom-Left: loss without post processing with FSPFC

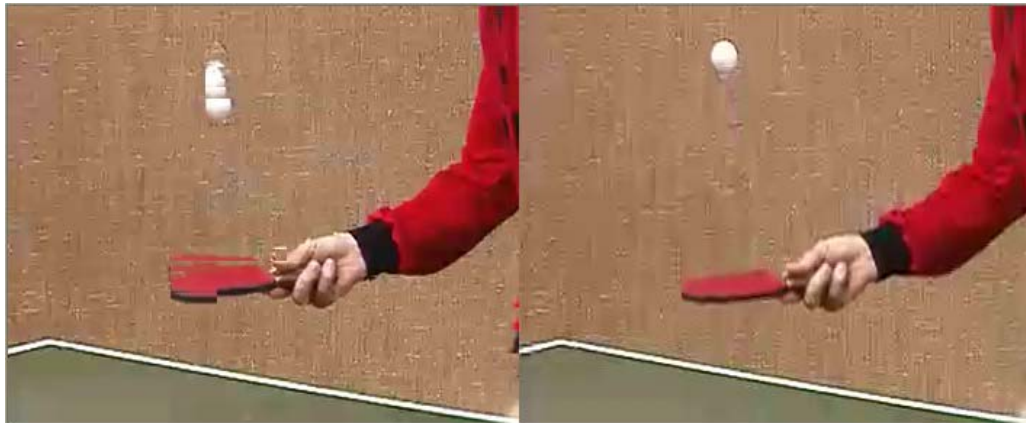
Bottom-Middle: loss with the proposed post processing method with FSPFC

Bottom-Right: reconstructed video without loss

FrameNo. 2



FrameNo. 3



FrameNo. 4

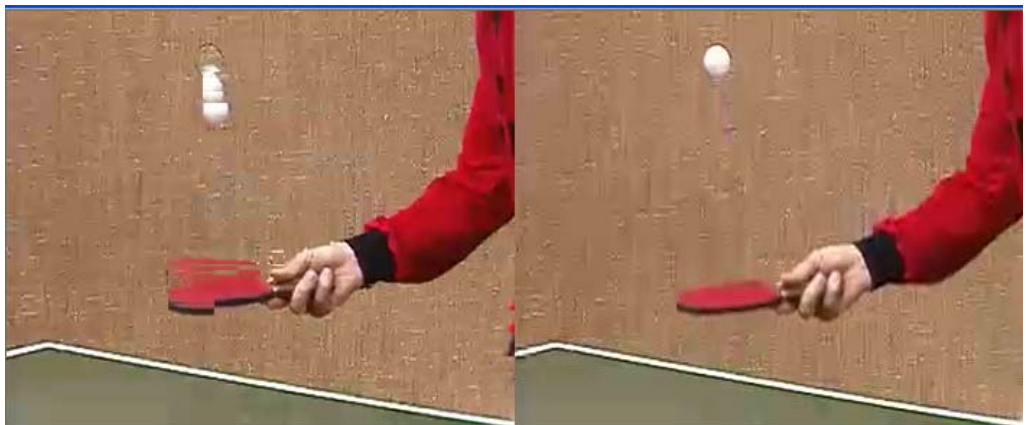


Fig 5.3 Base layer experiment results. Comparison between the FSPFC structure and the frame coding structure

(Test sequence: Stephan). PLR= 0.049

Left: loss with post processing with frame coding

Right: loss with the proposed post processing method with FSPFC

5.2 On Enhancement Layer

In this section, enhancement layer results are shown and comparisons with frame coding are given.

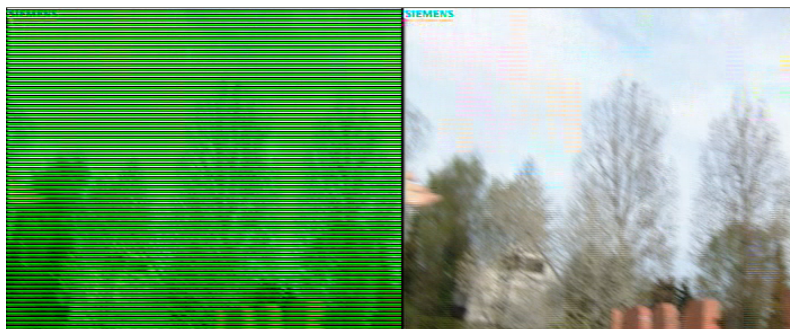
FrameNo. 0 (enhancement bit-planes= 6)



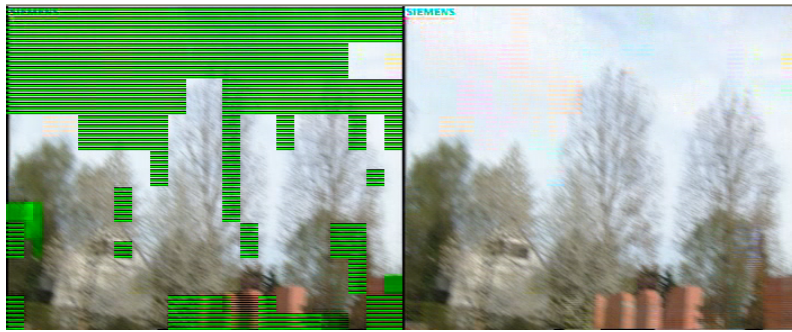
FrameNo. 1 (enhancement bit-planes= 6)



FrameNo. 206 (enhancement bit-planes= 6)



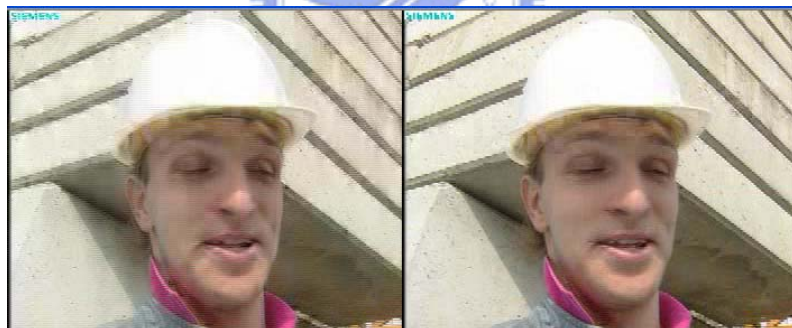
FrameNo. 207 (enhancement bit-planes= 6)



FrameNo. 0 (enhancement bit-planes= 5)



FrameNo. 1 (enhancement bit-planes= 5)



FrameNo. 0 (enhancement bit-planes= 4)



FrameNo. 1 (enhancement bit-planes= 4)



Fig 5.4 Enhancement layer experiment results with the fld_fld coding

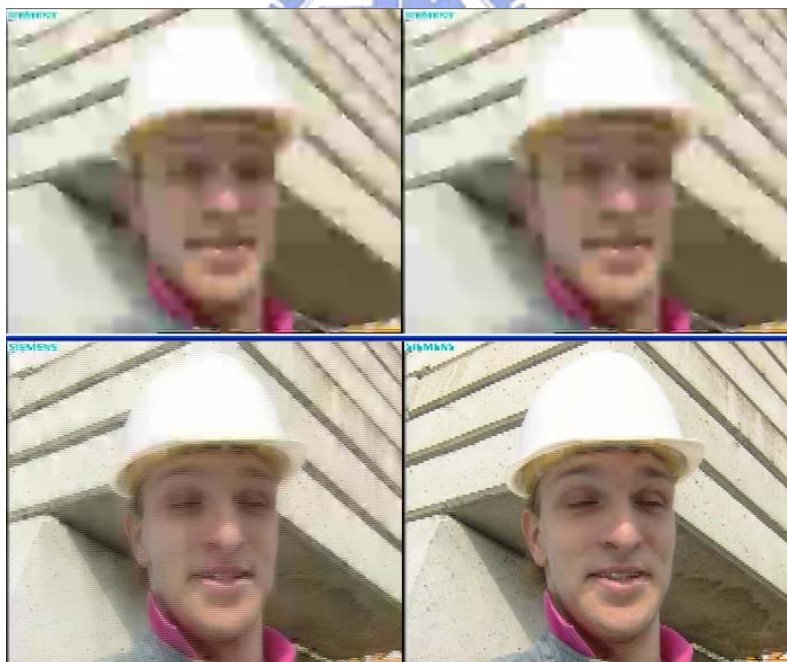
(Test sequence: Foreman)

PLR= 0.016, $\alpha= 1$

Left: loss without post processing

Right: loss with the proposed post processing method

FrameNo. 0 (enhancement bit-planes= 6)



FrameNo. 1 (enhancement bit-planes= 6)



FrameNo. 2 (enhancement bit-planes= 6)



Fig 5.5 Enhancement layer experiment results. Comparison between the fld_fld coding and the frm_frm coding

(Test sequence: Foreman). PLR=0.016

Top-Left: loss without post processing with frm_frm coding

Top-Right: loss with post processing with frm_frm coding

Bottom-Left: loss without post processing with fld_fld coding

Bottom-Middle: loss with the proposed post processing method with fld_fld coding

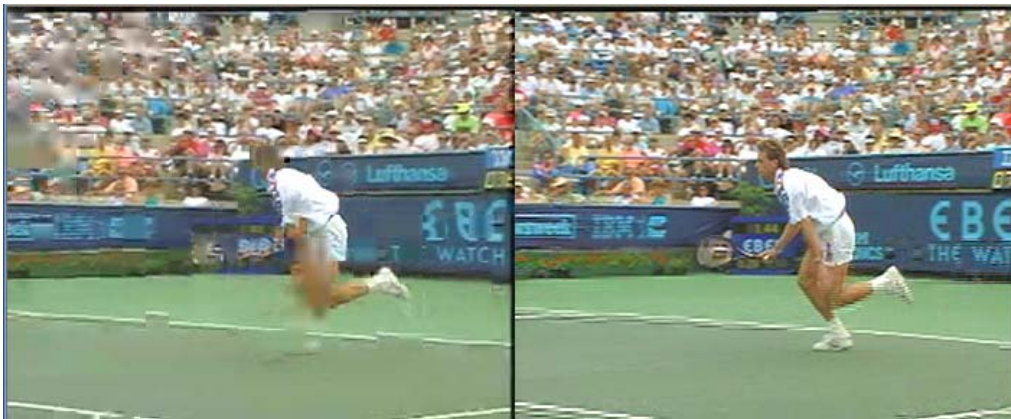
FrameNo. 0 (enhancement bit-planes=2)



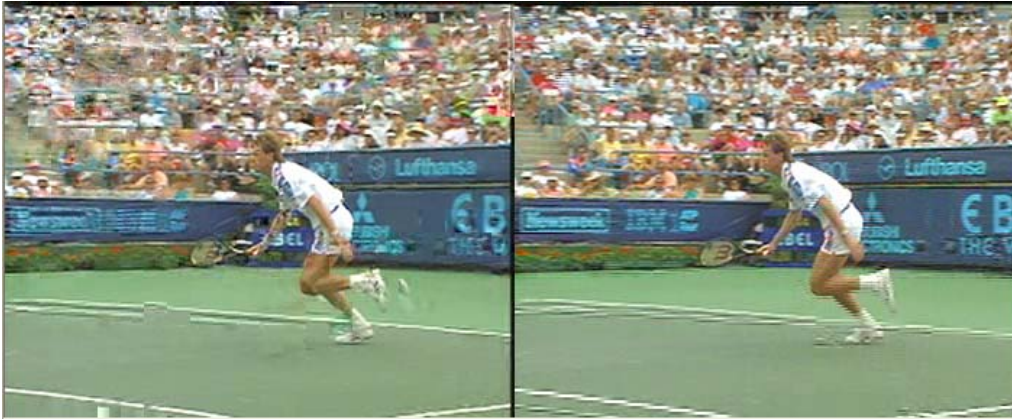
FrameNo. 1 (enhancement bit-planes=2)



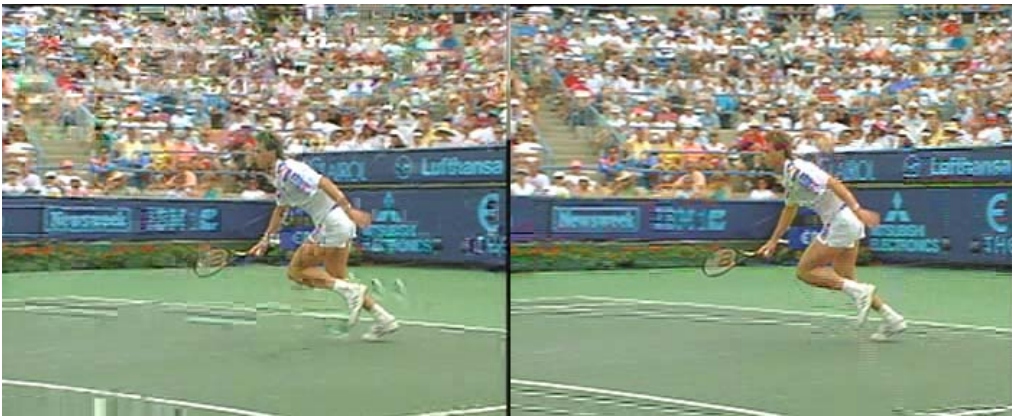
FrameNo. 242 (enhancement bit-planes=2)



FrameNo. 243 (enhancement bit-planes=2)



FrameNo. 244 (enhancement bit-planes=2)



FrameNo. 245 (enhancement bit-planes=2)

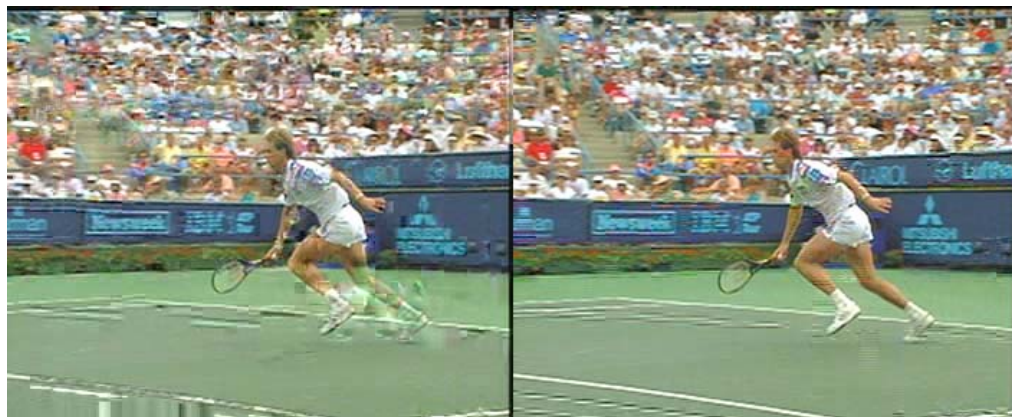


Fig 5.6 Enhancement layer experiment results. Comparison between the fld_fld coding and the frm_frm coding (Test sequence: Stefan). PLR=0.049
Left: loss with post processing with frm_frm coding
Right: loss with the proposed post processing method with fld_fld coding