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1 Experiment on the optimisation of the upconversion filter for spatial scalability

In the WD the upconversion filter for interlace to interlace spatial scalability is defined in section 7.7. This filter has a certain complexity and performance impact. Experiments need to be carried out to optimise for a low complexity implementation and possibly a higher picture coding performance. For instance a linear interpolation from within the lines of a field upconversion (intra field upconversion) can be used. (See also MPEG93/691)

It should be noted that this filter is used inside the decoding process, and this an other filter can be used for displaying the lower resolution in the higher format.

2 Experiment on the optimisation of Macroblock type tables for scalability

The macroblock type table given in the WD for scalability might have room for optimisation. Experiments to do this can be carried out.

3 Experiment on the verification of temporal scalability

Simulations need be carried out to verify this mode, and it needs to be compared with simulcast.