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Title: Adjustment of the Figure for the Quantizer Assignment

Source: FRG, F, I, NL, S, UK

In the Flexible Hardware specification a figure for the quantizer assignment is used, which is more complex than necessary to fulfill the written specification (Fig. 4 of Annex 4 to Doc.#540R).

The selection table allows for a modification of the applied stepsize in dependence of the transmitted quantizer value, the sequence index of the coefficient and the type of the block (inter/intra, chrominance/luminance). It gives a lot of freedom for optimizing the proper appliance of stepsizes within a block. Experience has shown, that the simple solution of using the same stepsize for all coefficients of a block delivers good results.

So the only usage of this selection table is the assignment of the stepsize of the DC-coefficient of intra coded blocks, which is predestined and unique. All other coefficients are processed with the transmitted quantizer value.

To make the final specification as clear as possible, the current figure should be adjusted to be in line with the written specification.

Proposal for the adjusted figure:

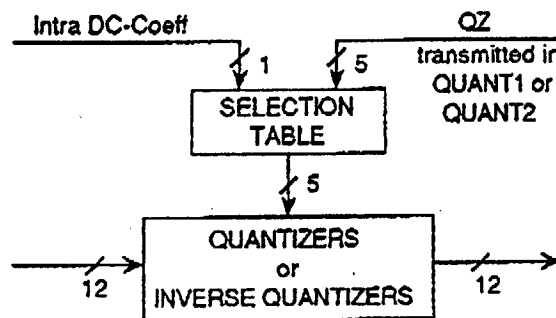


Figure 4: Quantizer Assignment