

11th JCT-3V Meeting

JCT3V-K0035: Removal of Encoder Restriction of ARP

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Encoder Restriction of ARP

- When the current slice has no view reference picture, `iv_res_pred_weight_idx` is set to '0'
- But, **currently `iv_res_pred_weight_idx` is not signaled** when there is no view reference picture, so this restriction is useless and can be removed
- We propose **to remove this useless encoder restriction of ARP**

The variable `rpEnableFlag` is derived as specified in the following:

$$\text{rpEnableFlag} = \text{IvResPredFlag} \ \&\& \ \text{RpRefPicAvailFlag} \ \&\& \ (\text{CuPredMode}[\text{x0}][\text{y0}] \neq \text{MODE_INTRA}) \ \&\& \ (\text{PartMode} == \text{PART_2Nx2N}) \quad (\text{I-43})$$

`iv_res_pred_weight_idx[x0][y0]` specifies the index of the weighting factor used for residual prediction. `iv_res_pred_weight_idx[x0][y0]` equal to 0 specifies that residual prediction is not used for the current coding unit. `iv_res_pred_weight_idx[x0][y0]` not equal to 0 specifies that residual prediction is used for the current coding unit. When not present, the value of `iv_res_pred_weight_idx[x0][y0]` is inferred to be equal to 0.

When `DispAvailFlag` is equal to 0, `iv_res_pred_weight_idx[x0][y0]` shall be equal to 0.