

JCTVC-L0276:
On hrd_parameters()

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Agenda

- Introduction / Problem Statement
- Proposed Modification
- Conclusion

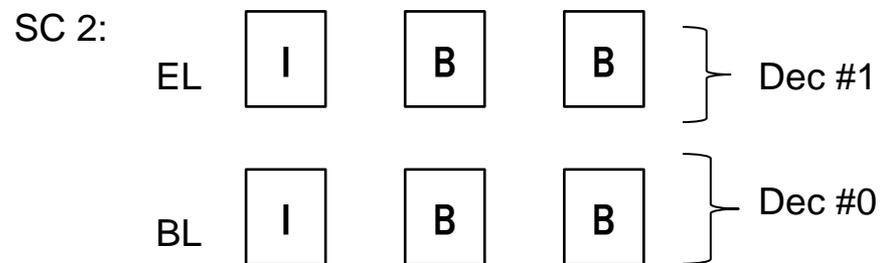
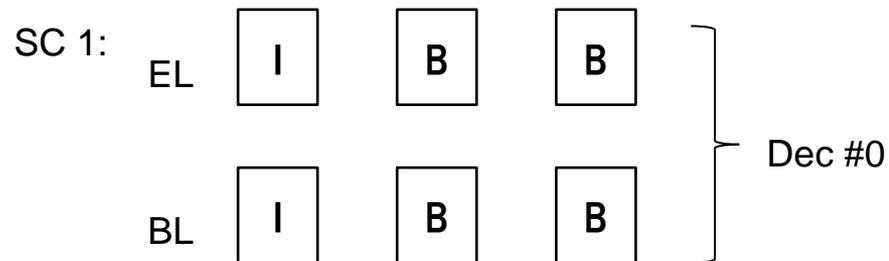
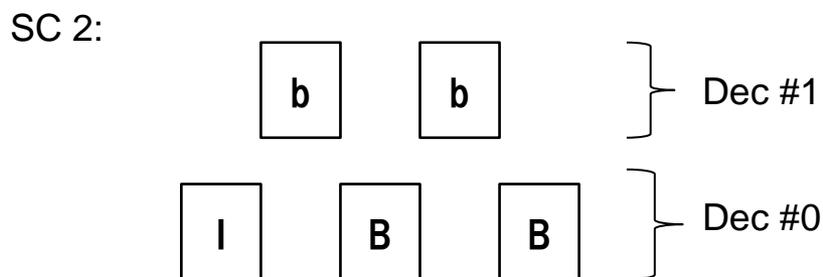
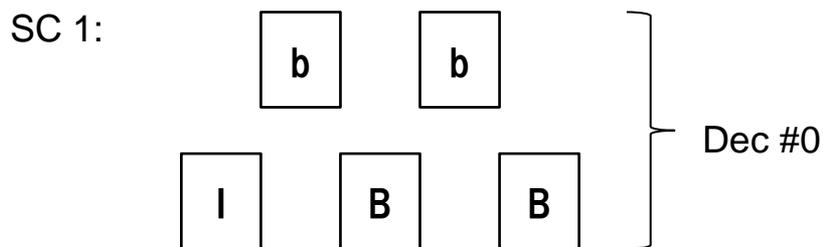
Introduction / Problem Statement

- In the current HEVC specification it is not clear that sub-stream level definition of HRD parameters is defined as
 - whether just for the current layer
 - or for the sum from lower layers
- This is also true for temporal layers.

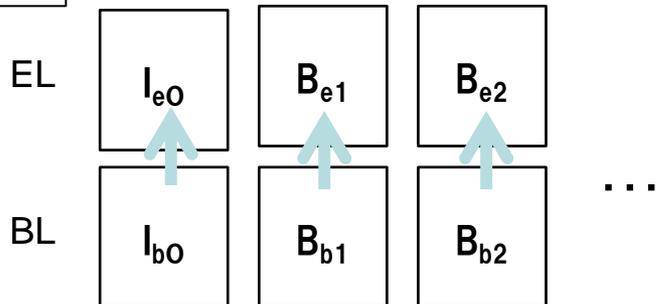
HRD will behave in different ways with scenario1 and scenario2 but currently it is not clear in which way hrd_parameters are defined:

Temporal Scalability

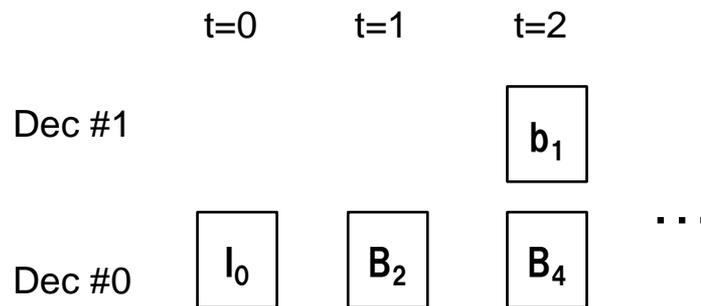
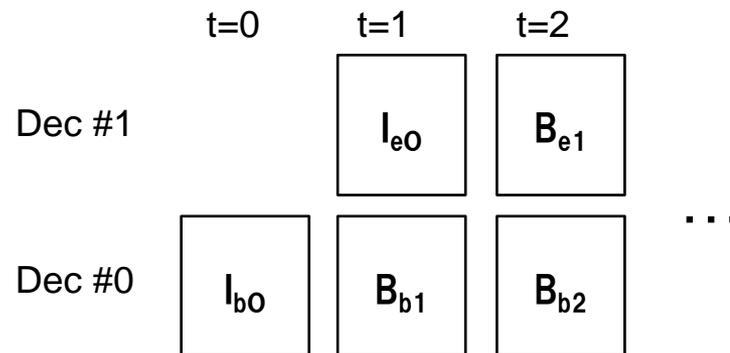
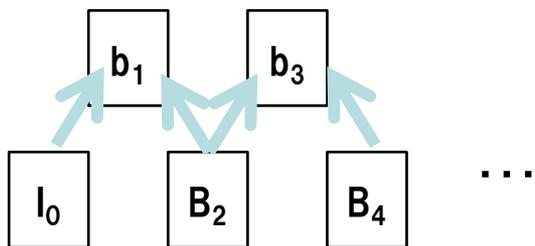
SHVC



SHVC



Temp Scalability



Proposed Method

- It is proposed to add flags to indicate that HRD parameters are indicated with either of the followings:
 - Type_1: just for the current layer
 - Type_2: for the sum from lower layers
 - Or, both for Type_1 and Type_2
- For the base layer/sub-layer, or, if a stream contains just one layer/sub-layer HRD parameters can be defined either as “Type_1” or “Type_2”.
- Suggested change in syntax is shown in “JCTVC-L0276.doc”.

Conclusion

- This contribution claims modification to add flags to indicate the HRD parameters for layers and sublayers are defined
 - either for a single-decoder model
 - or multi-decoder model
 - or both
- It is recommended that this modification be adopted into HEVC specification.

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