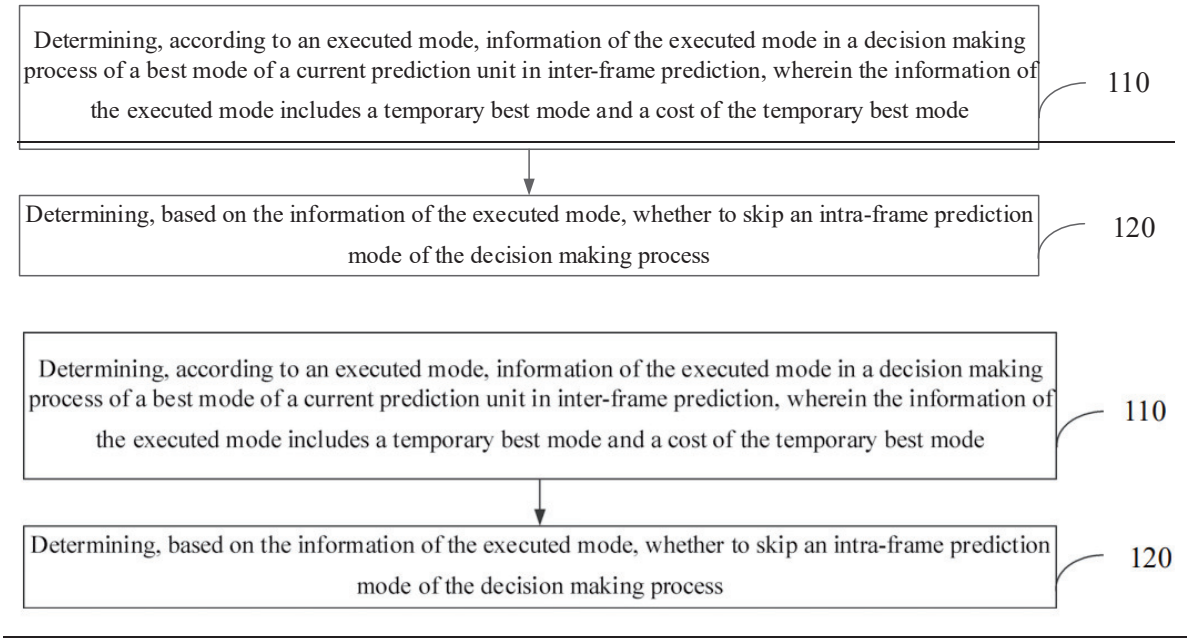
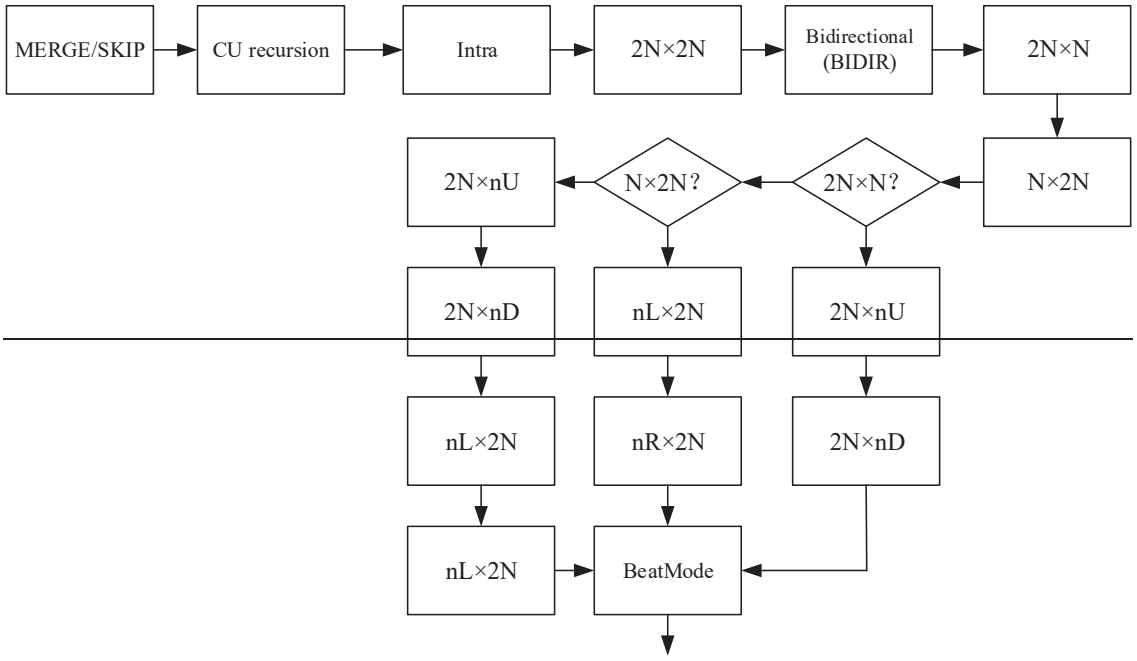

Determining, according to an executed mode, information of the executed mode in a decision making process of a best mode of a current prediction unit in inter-frame prediction, wherein the information of the executed mode includes a temporary best mode and a cost of the temporary best mode
110
Determining, based on the information of the executed mode, whether to skip an intra-frame prediction mode of the decision making process
120
Determining, according to an executed mode, information of the executed mode in a decision making process of a best mode of a current prediction unit in inter-frame prediction, wherein the information of the executed mode includes a temporary best mode and a cost of the temporary best mode
110
Determining, based on the information of the executed mode, whether to skip an intra-frame prediction mode of the decision making process
120

FIG. 1


MERGE/SKIP
CU recursion
Intra
2N×2N
Bidirectional (BIDIR)
2N×N
N×2N
2N×N?
N×2N?
2N×nU
2N×nD
nL×2N
2N×nU
nL×2N
nR×2N
2N×nD
nL×2N
BeatMode

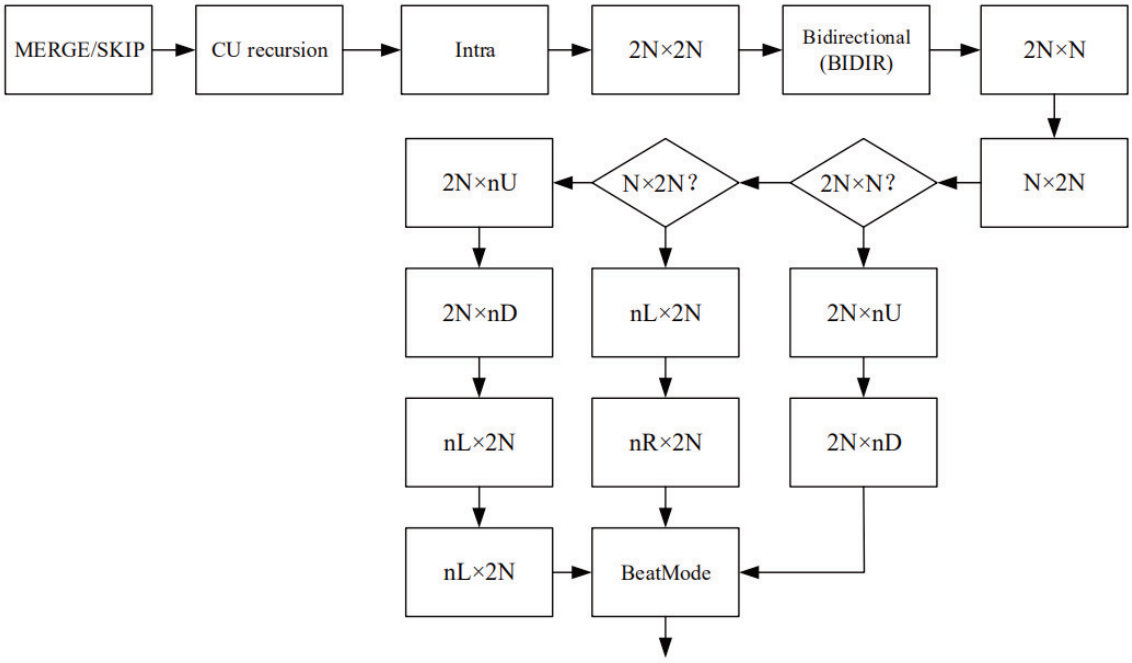

MERGE/SKIP
CU recursion
Intra
2N×2N
Bidirectional (BIDIR)
2N×N
N×2N
2N×N?
N×2N?
2N×nU
2N×nD
nL×2N
nR×2N
2N×nU
2N×nD
nL×2N
nL×2N
BeatMode

FIG. 2

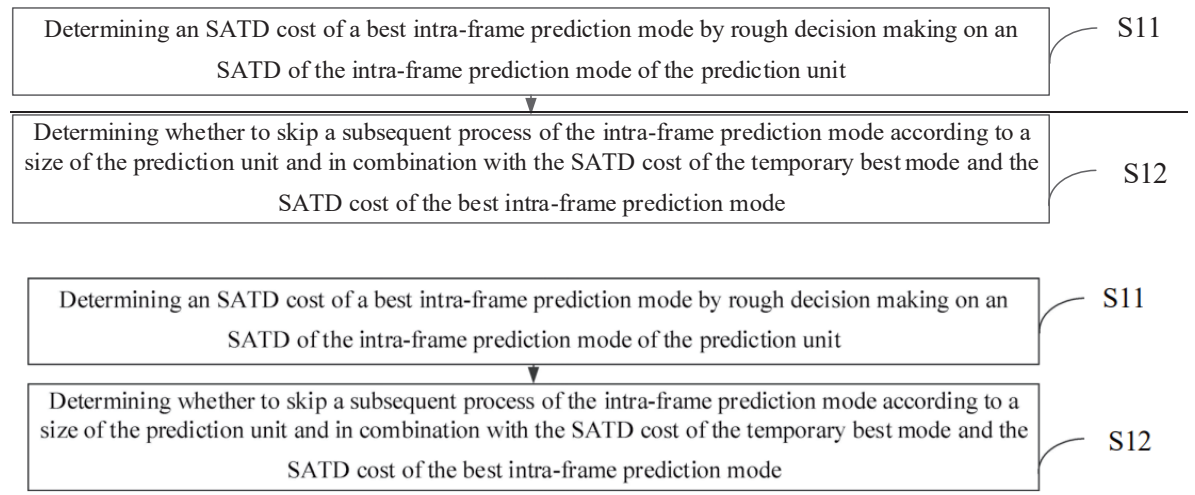

Determining an SATD cost of a best intra-frame prediction mode by rough decision making on an SATD of the intra-frame prediction mode of the prediction unit
S11
Determining whether to skip a subsequent process of the intra-frame prediction mode according to a size of the prediction unit and in combination with the SATD cost of the temporary best mode and the SATD cost of the best intra-frame prediction mode
S12
Determining an SATD cost of a best intra-frame prediction mode by rough decision making on an SATD of the intra-frame prediction mode of the prediction unit
S11
Determining whether to skip a subsequent process of the intra-frame prediction mode according to a size of the prediction unit and in combination with the SATD cost of the temporary best mode and the SATD cost of the best intra-frame prediction mode
S12

FIG. 3

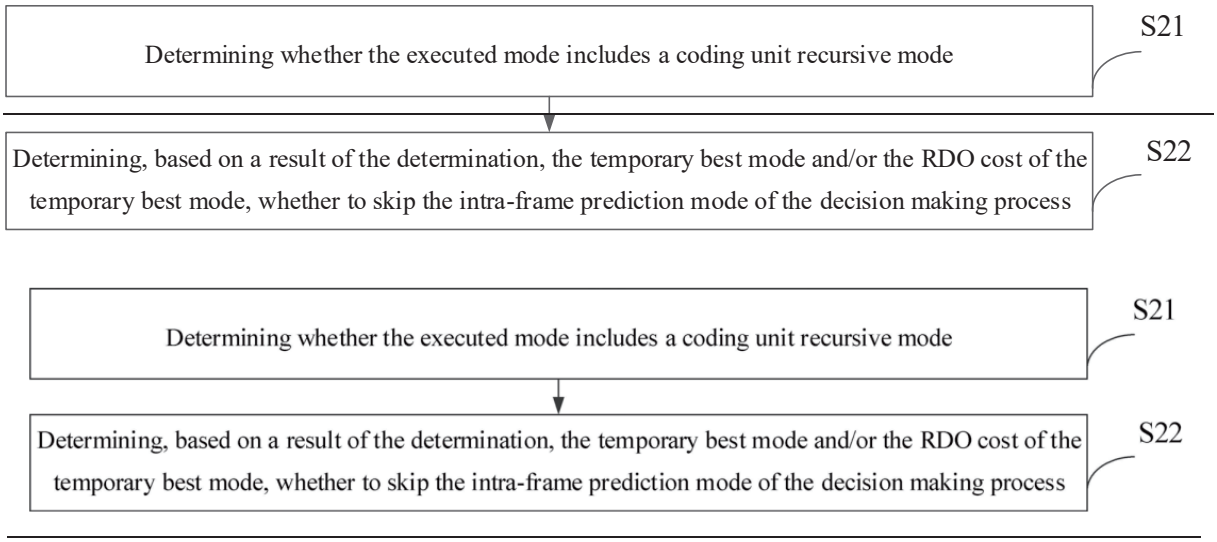

Determining whether the executed mode includes a coding unit recursive mode
S21
Determining, based on a result of the determination, the temporary best mode and/or the RDO cost of the temporary best mode, whether to skip the intra-frame prediction mode of the decision making process
S22
Determining whether the executed mode includes a coding unit recursive mode
S21
Determining, based on a result of the determination, the temporary best mode and/or the RDO cost of the temporary best mode, whether to skip the intra-frame prediction mode of the decision making process
S22

FIG. 4

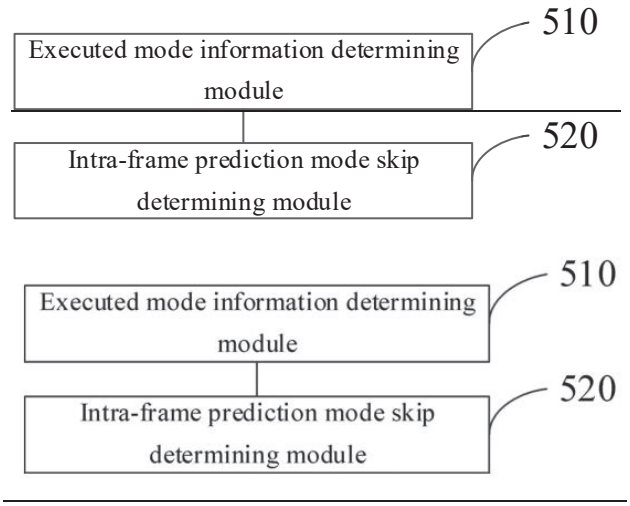

Executed mode information determining module
510
Intra-frame prediction mode skip determining module
520
Executed mode information determining module
510
Intra-frame prediction mode skip determining module
520

FIG. 5

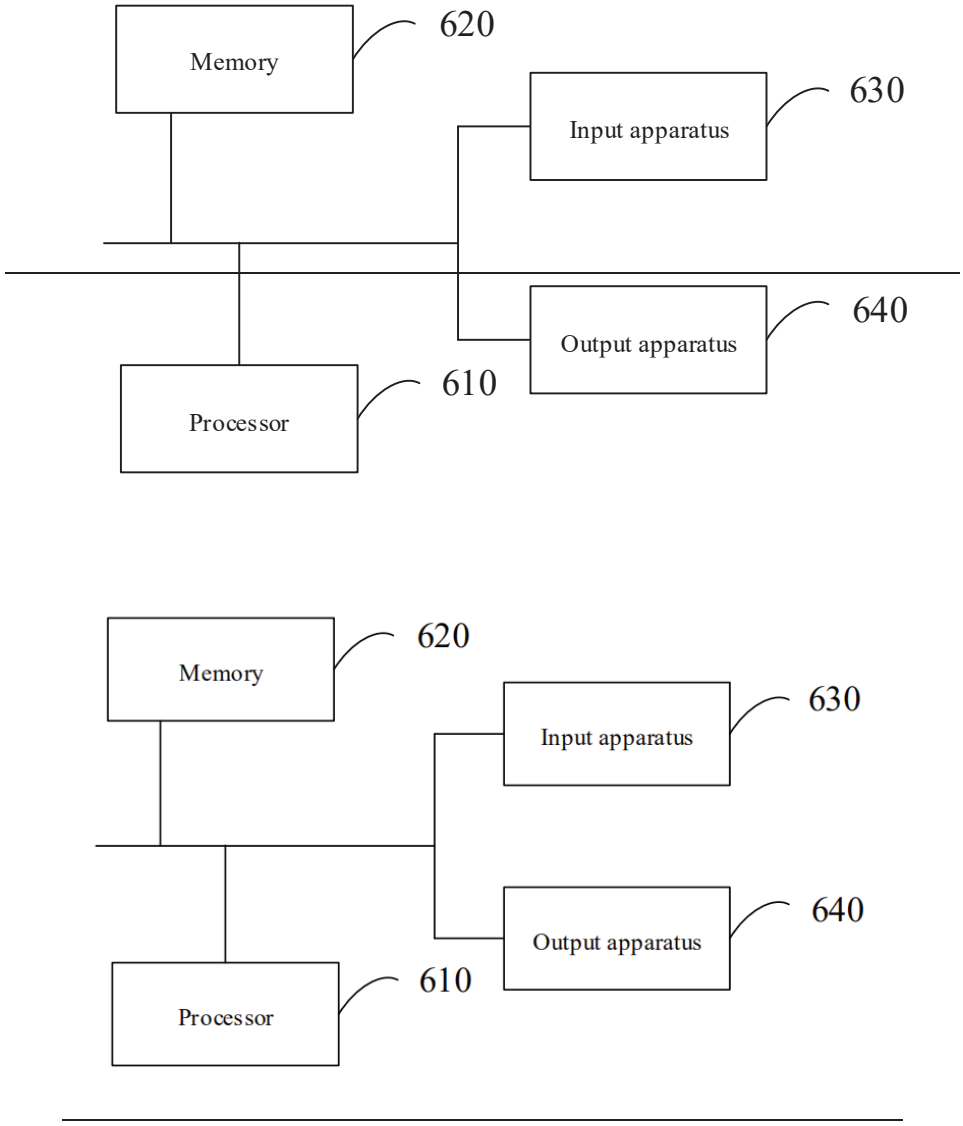

Memory
620
Input apparatus
630
Output apparatus
640
Processor
610
Memory
620
Input apparatus
630
Output apparatus
640
Processor
610

FIG. 6