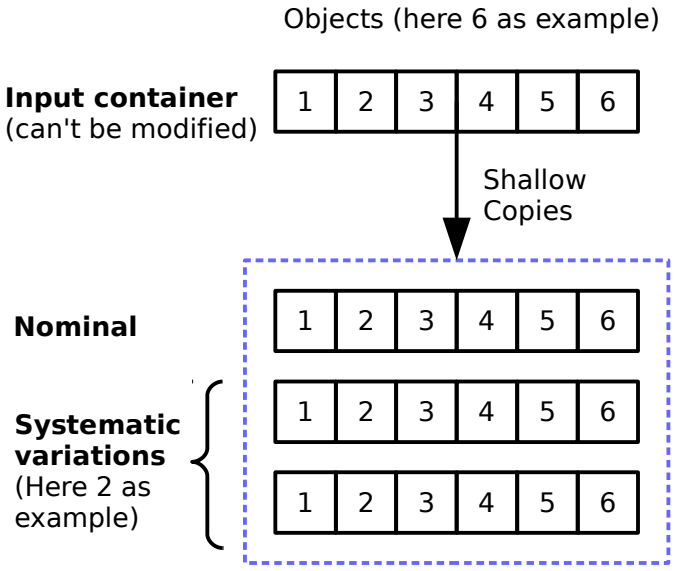
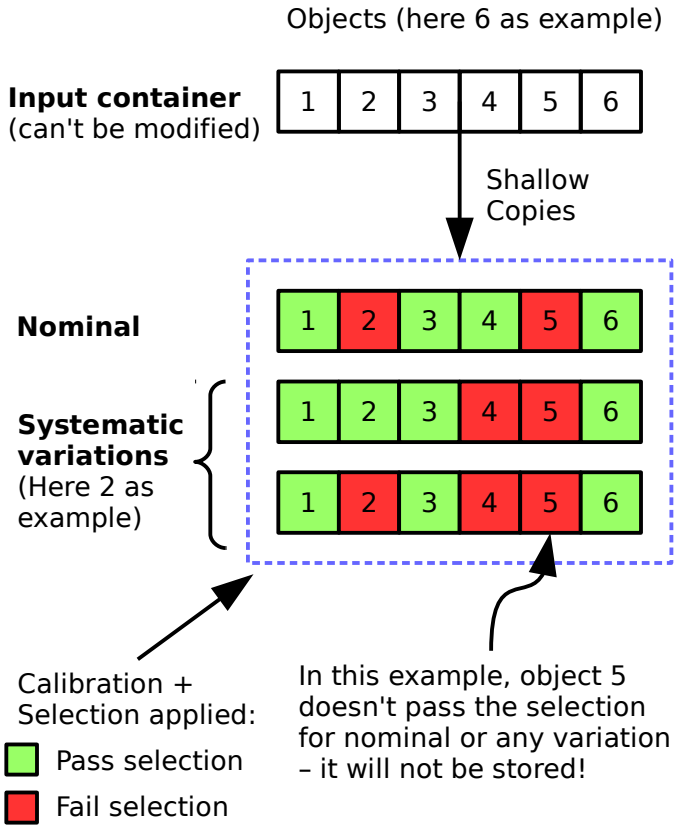


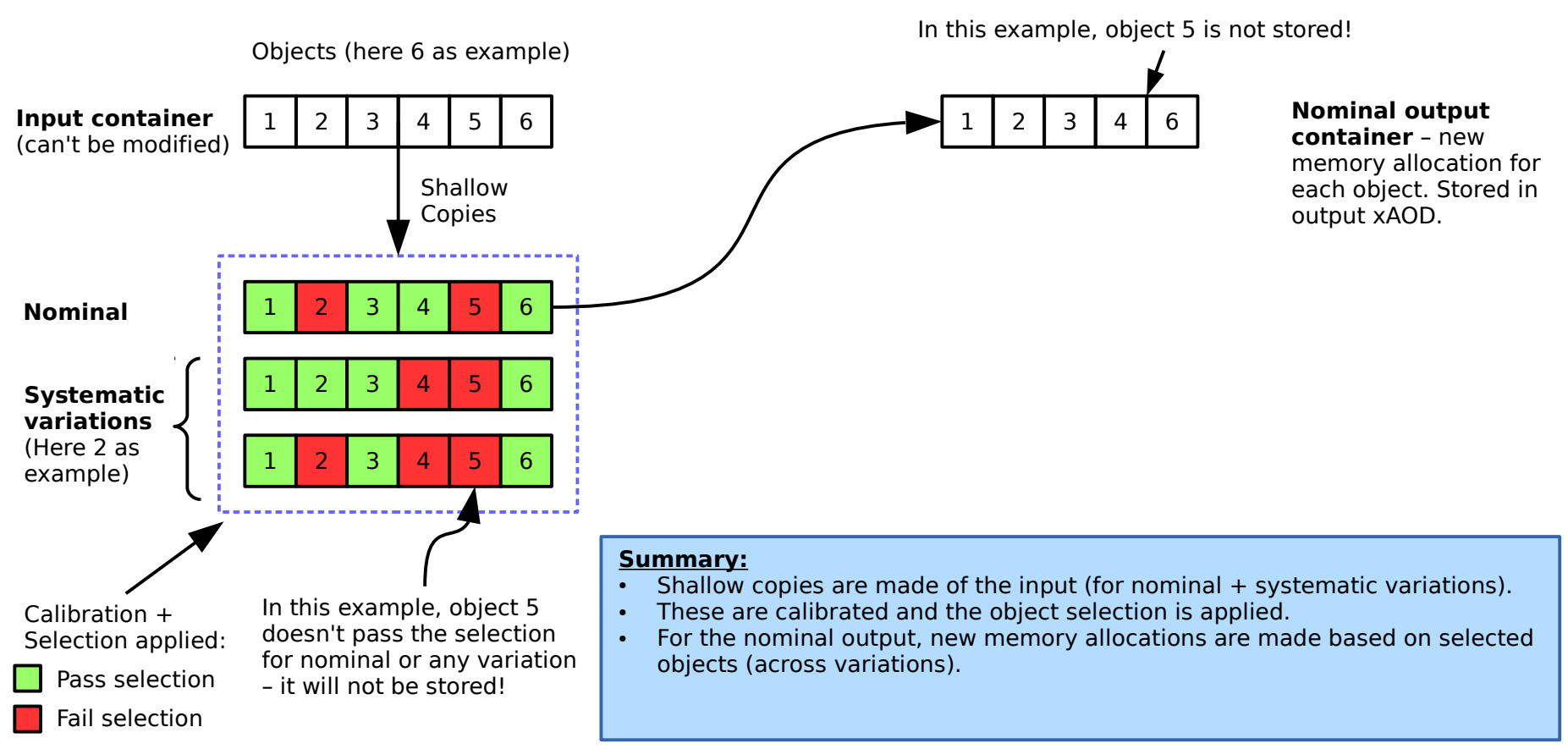
Summary:

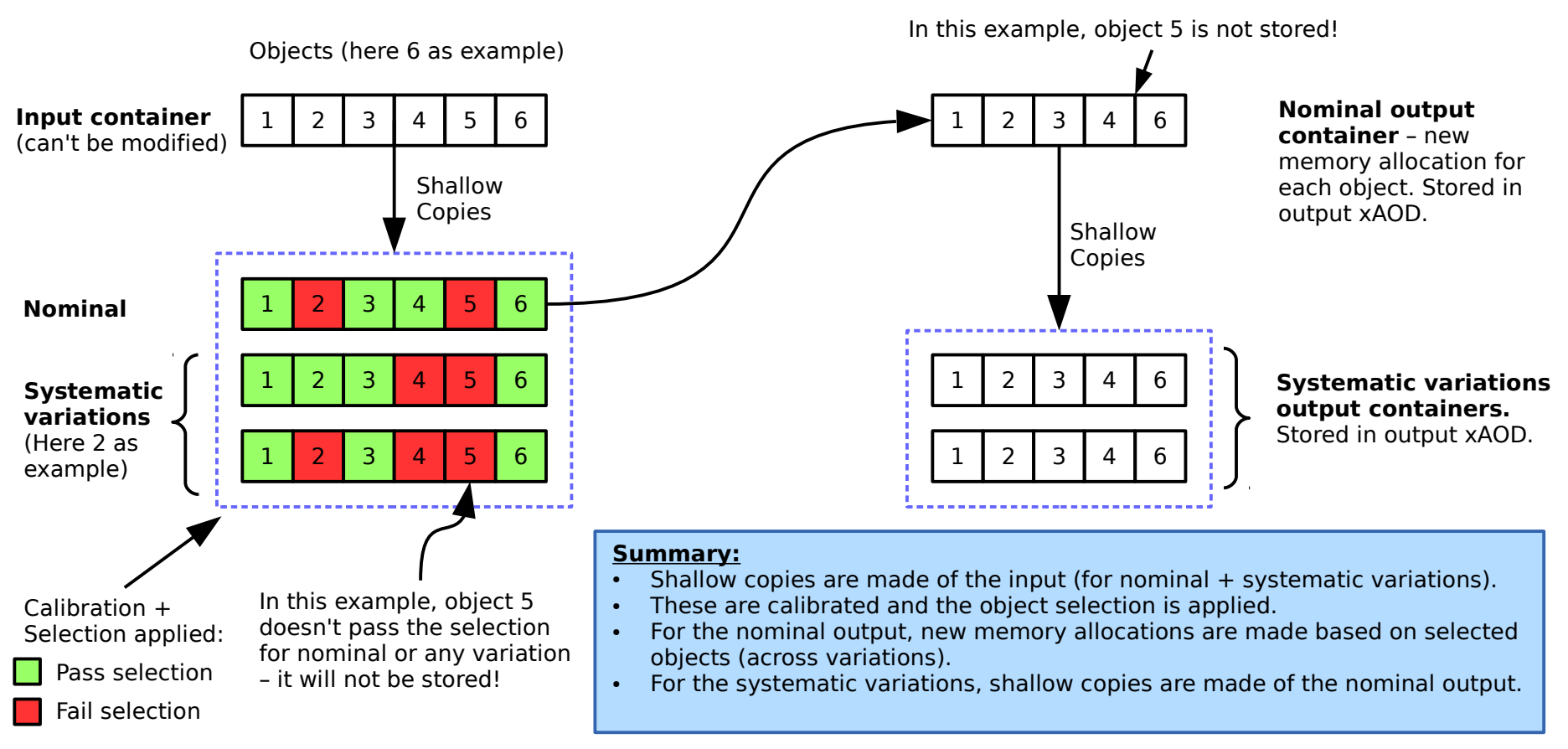
- Shallow copies are made of the input (for nominal + systematic variations).

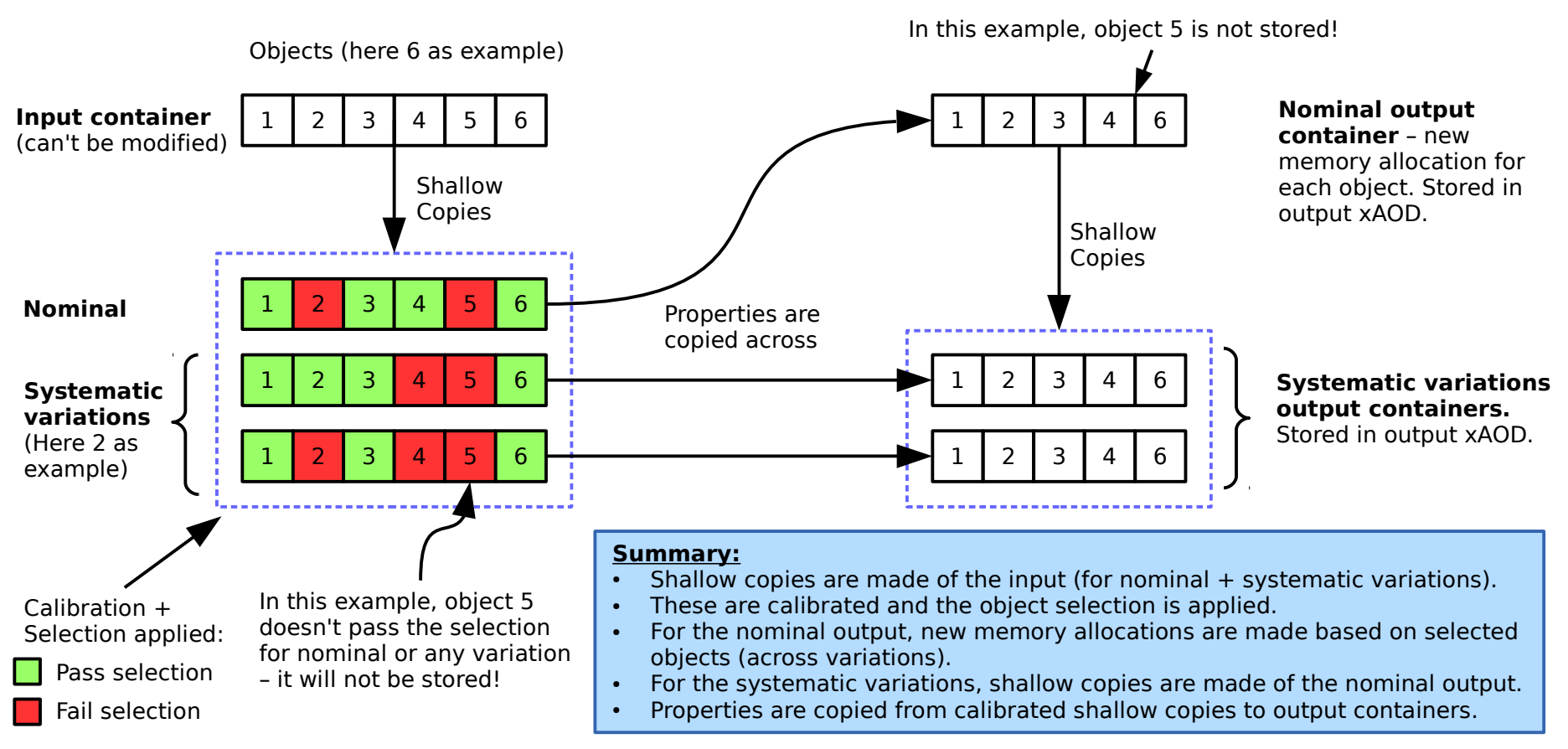


Summary:

- Shallow copies are made of the input (for nominal + systematic variations).
- These are calibrated and the object selection is applied.


Objects (here 6 as example)
In this example, object 5 is not stored!
Input container
(can't be modified)
1 2 3 4 5 6
Shallow
Copies
1 2 3 4 6
Nominal output container – new memory allocation for each object. Stored in output xAOD.
Nominal
1 2 3 4 5 6
Systematic variations
(Here 2 as example)
1 2 3 4 5 6
1 2 3 4 5 6
Calibration + Selection applied:
Pass selection
Fail selection
In this example, object 5 doesn't pass the selection for nominal or any variation – it will not be stored!
Summary:
• Shallow copies are made of the input (for nominal + systematic variations).
• These are calibrated and the object selection is applied.
• For the nominal output, new memory allocations are made based on selected objects (across variations).


Objects (here 6 as example)
In this example, object 5 is not stored!
Input container
(can't be modified)
1 2 3 4 5 6
Shallow Copies
Nominal output container – new memory allocation for each object. Stored in output xAOD.
Nominal
Systematic variations
(Here 2 as example)
Shallow Copies
Systematic variations output containers. Stored in output xAOD.
Calibration + Selection applied:
Pass selection
Fail selection
In this example, object 5 doesn't pass the selection for nominal or any variation – it will not be stored!
Summary:
• Shallow copies are made of the input (for nominal + systematic variations).
• These are calibrated and the object selection is applied.
• For the nominal output, new memory allocations are made based on selected objects (across variations).
• For the systematic variations, shallow copies are made of the nominal output.


Objects (here 6 as example)
In this example, object 5 is not stored!
Input container
(can't be modified)
1 2 3 4 5 6
Shallow Copies
1 2 3 4 6
Nominal output container – new memory allocation for each object. Stored in output xAOD.
Shallow Copies
Nominal
Systematic variations
(Here 2 as example)
Properties are copied across
Systematic variations output containers.
Stored in output xAOD.
Calibration + Selection applied:
Pass selection
Fail selection
In this example, object 5 doesn't pass the selection for nominal or any variation – it will not be stored!
Summary:
• Shallow copies are made of the input (for nominal + systematic variations).
• These are calibrated and the object selection is applied.
• For the nominal output, new memory allocations are made based on selected objects (across variations).
• For the systematic variations, shallow copies are made of the nominal output.
• Properties are copied from calibrated shallow copies to output containers.