

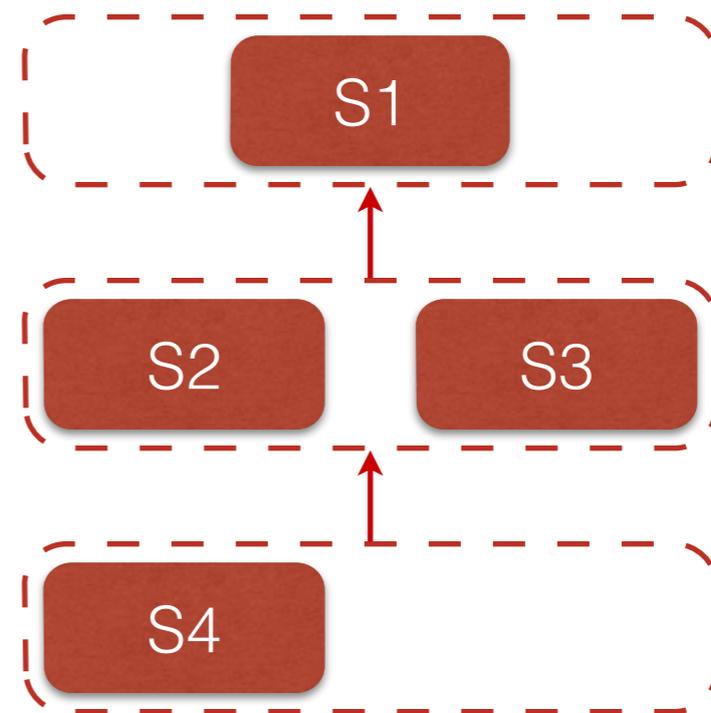
Priority Dependency Levels Handling

Hervé Ruellan
Canon CRF

Dependency-based Stream Ordering

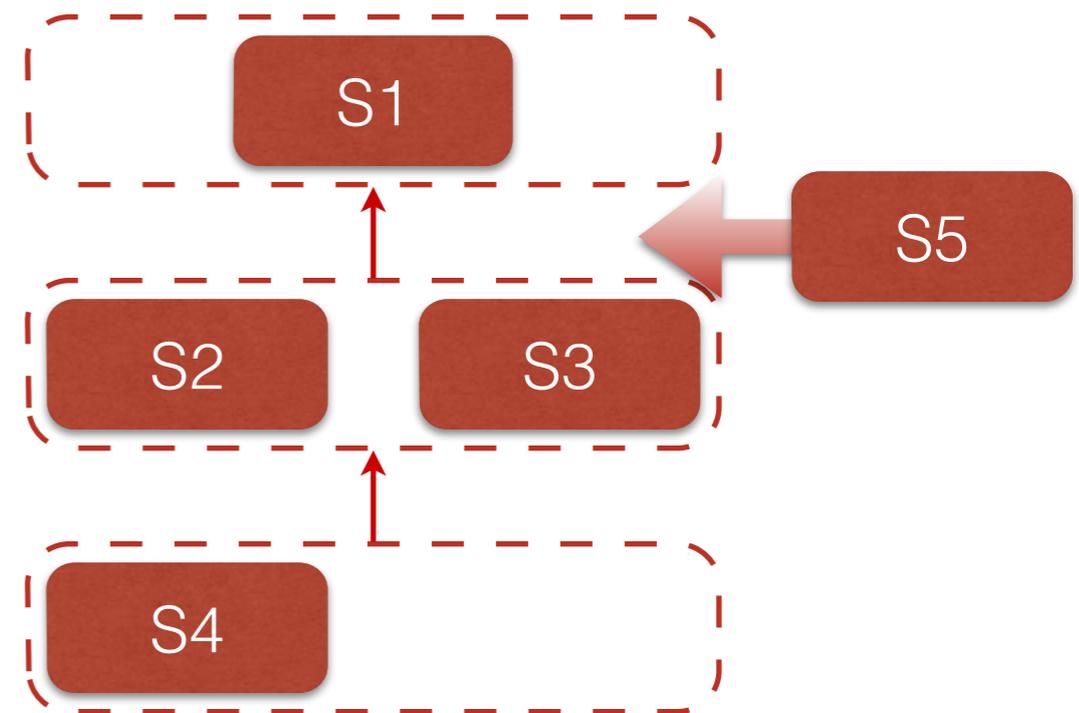
Current Dependency Proposal

- Inside a group, streams are ordered using dependencies
- Example:
 - S2 depends on S1
 - S3 depends on S1
 - S4 depends on S2
 - Becomes dependent on both S2 and S3



Problem

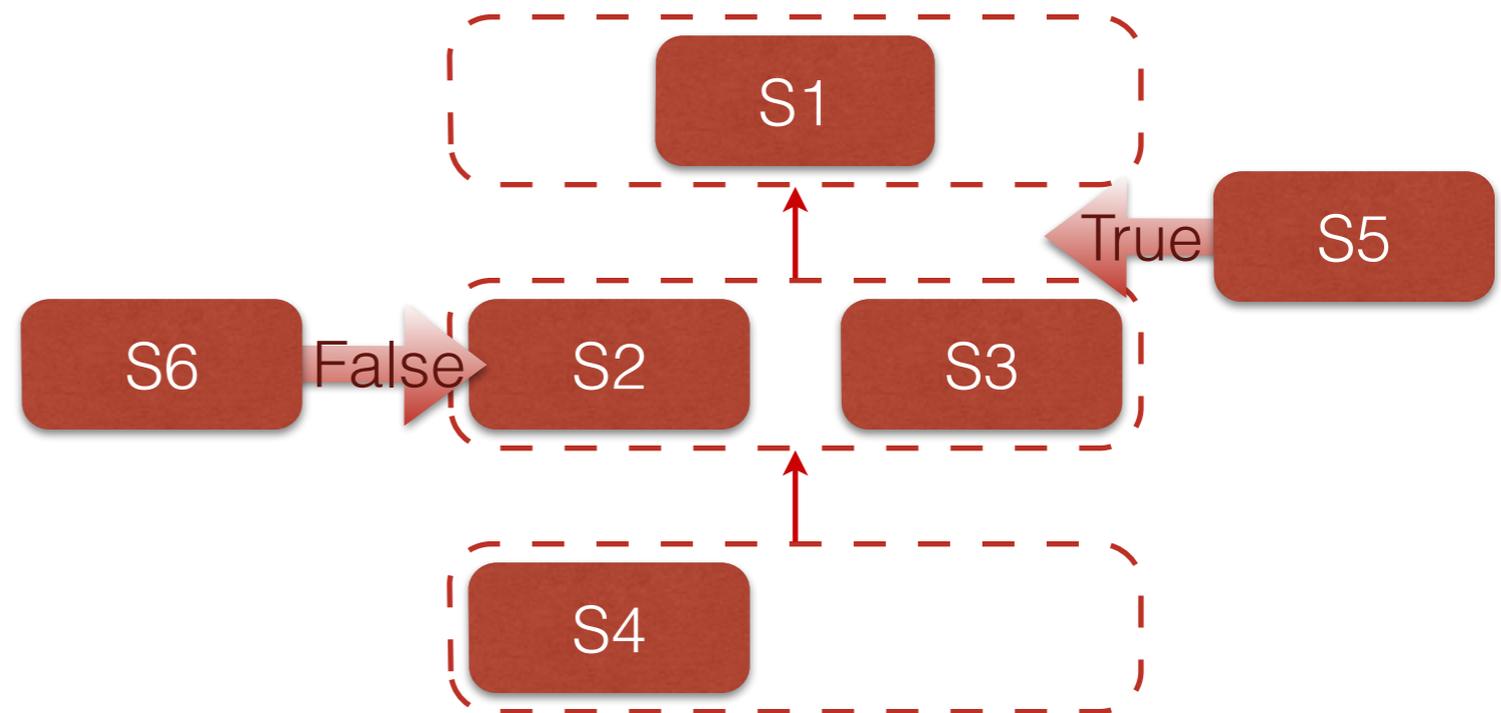
- Issue: inserting a new dependency level
- Example: S5 between (S1) and (S2, S3)
 - Need to re-prioritize S2, S3, S4
- Use-Case: web page
 - Download JS before images
 - In HTML: images before JS



Proposal 1

Dependency Level Flag

- New Priority Information: Level Flag
- Level Flag is False
 - Priority applies to stream only
 - Stream put into existing dependency level
- Level Flag is True
 - Priority applies to whole dependency level
 - Dependency level created or moved



Proposal 2

Direct Addressing of Dependency Levels

- Priority Information
 - Group Id and Weight
 - Level Id
 - Depending Level
- Example
 - S1, L1 -> 0
 - S2, L2 -> L1
 - S3, L2 -> L1
 - S4, L3 -> L2
 - Insertion: S5, L4 -> L1

