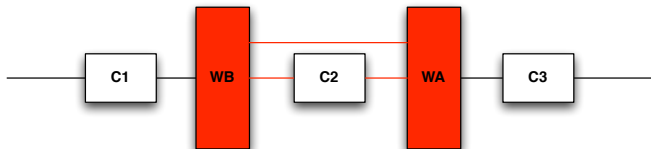


Open Discussion 3

Abdelhakim Hannousse

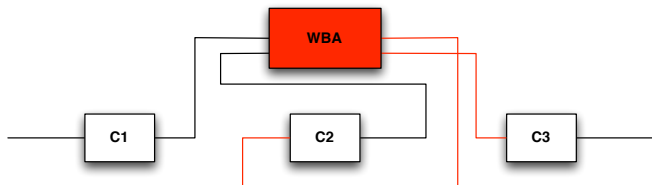
March 25, 2010

First Strategy



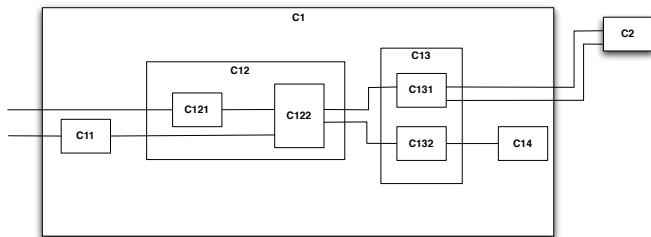
- Advantages:
 - 1 Easy to deal with some composition operators such as: *Left-Nesting*
 - 2 May enhance the reusability of aspects when two or more wrappers share one of their two parts
- Drawbacks:
 - 1 In fact, not all the wrappers have both before and after actions

Second Strategy

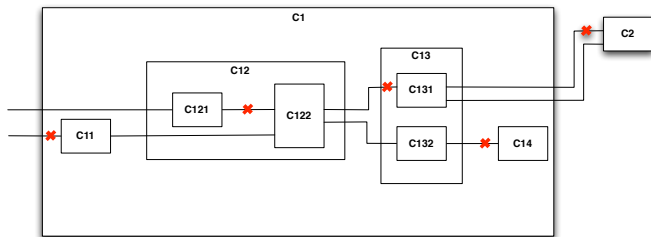


- Advantages:
 - 1 More general than the previous one: a wrapper may have just one part, before or after
 - 2 Reduces the number of bindings: ignores control interface bindings
 - 3 Full encapsulation of wrapper's states
- Drawbacks:
 - 1 Requires much effort to deal with some kinds of wrapper's composition: *Left-Nesting*
 - 2 Reduces the reusability of wrappers

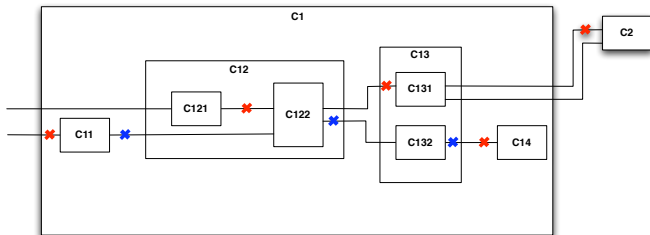
Abstract Example



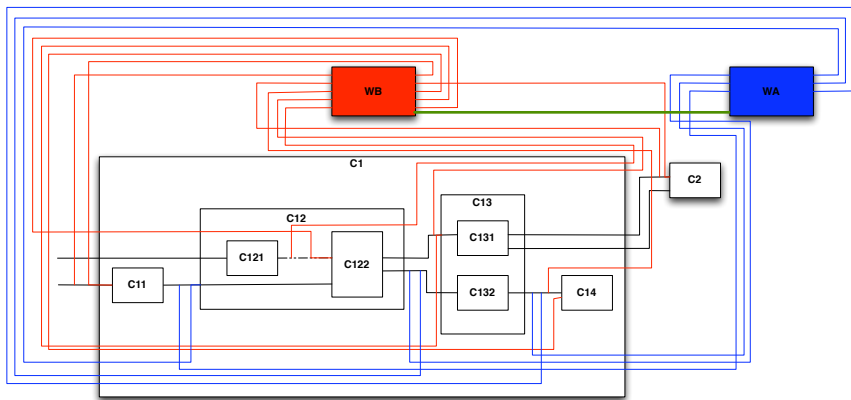
Abstract Example



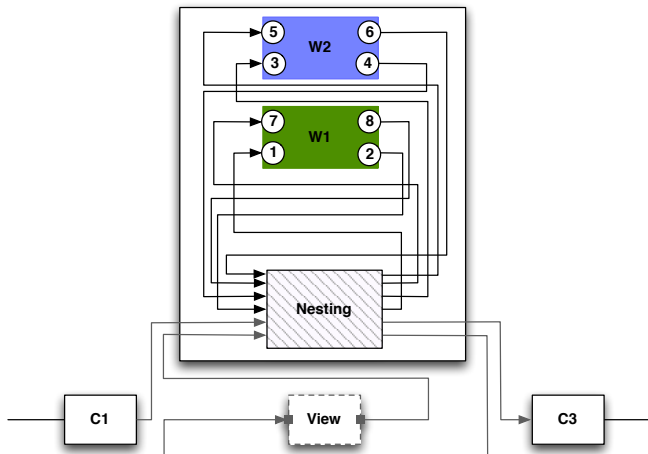
Abstract Example



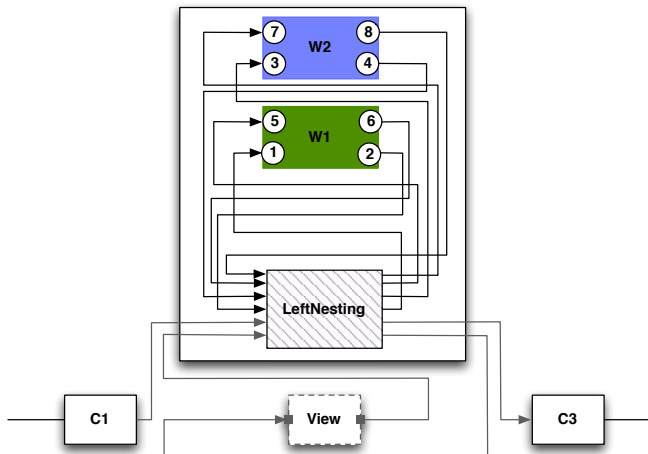
Abstract Example



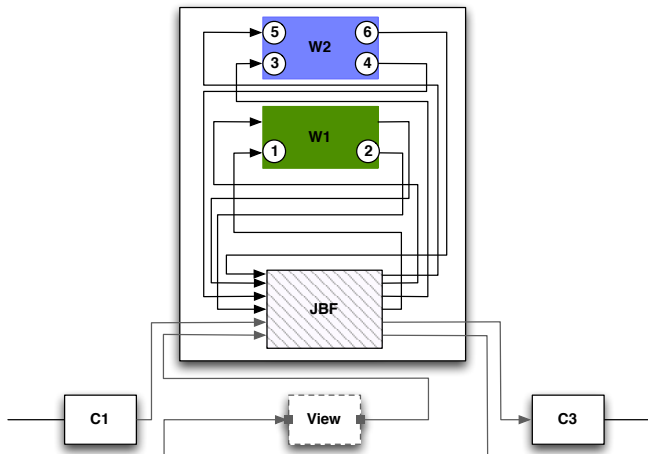
Composition Operators: Nesting



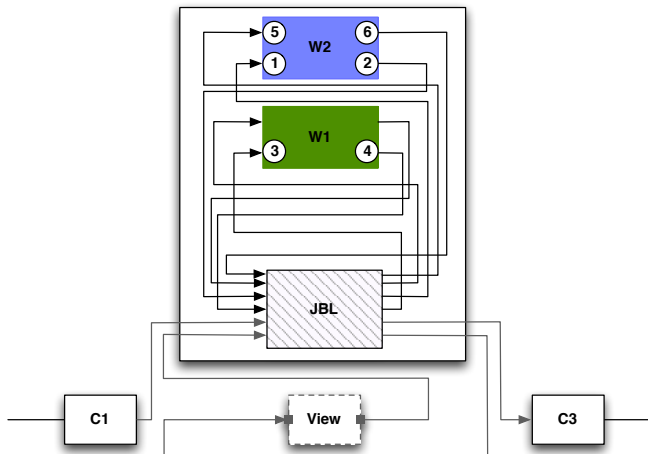
Composition Operators: LeftNesting



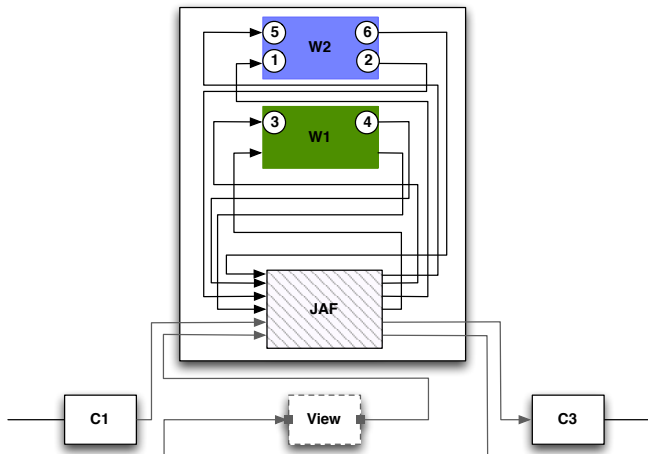
Composition Operators: Just Before First



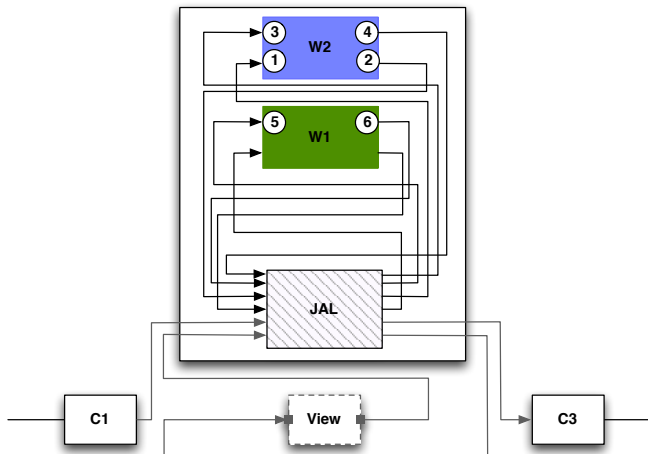
Composition Operators: Just Before Last



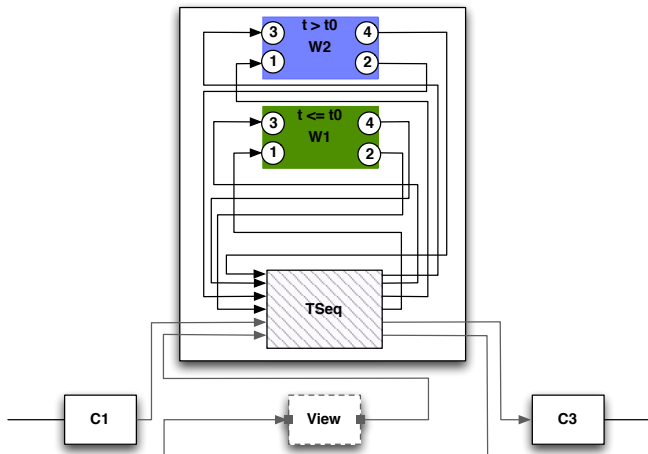
Composition Operators: Just After First



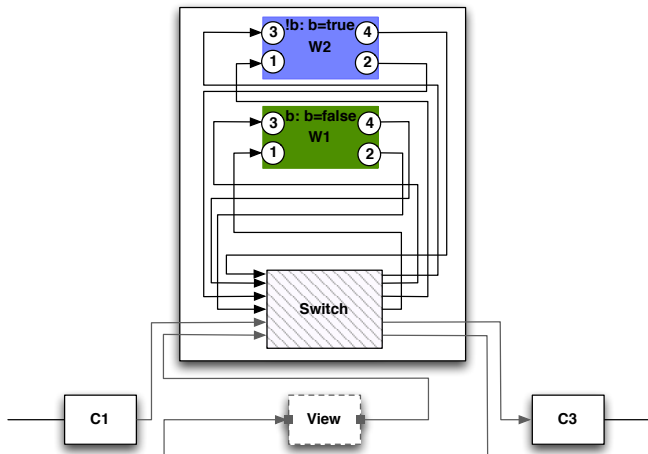
Composition Operators: Just After Last



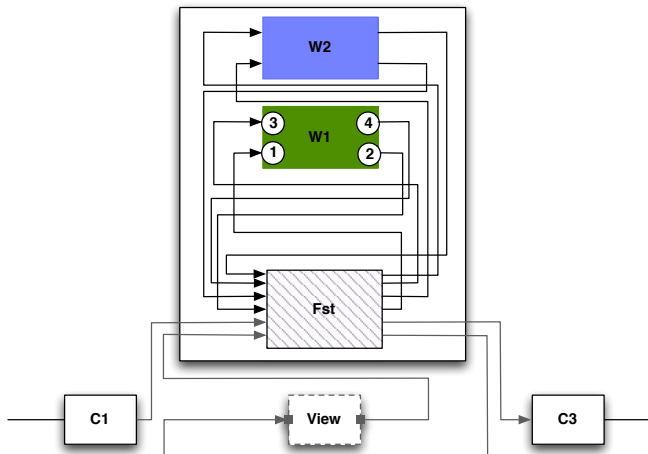
Composition Operators: TSeq



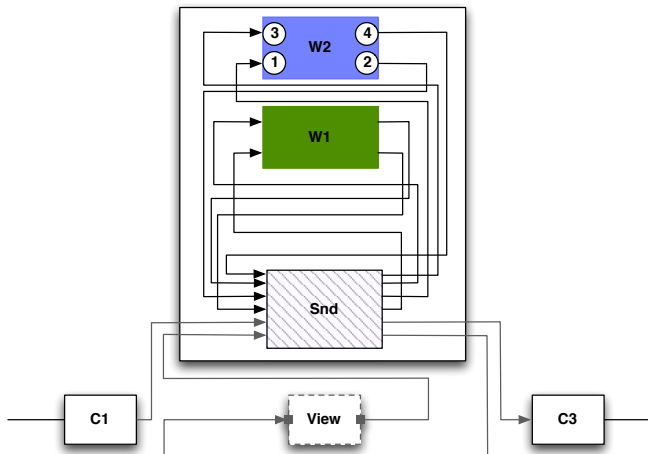
Composition Operators: Switch



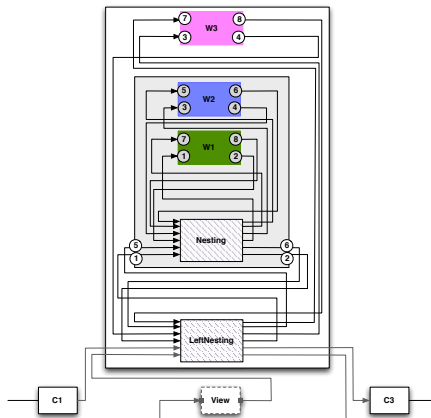
Composition Operators: Fst



Composition Operators: Snd



Composition Operators: LeftNesting of Nesting



Open Questions

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- 2 The wrapper should intercept all the operations of its intercepted interfaces even if they are out of its interest.
- 3 The previously introduced strategies does not support parallel execution of wrappers and the basic components behavior.
- 4 Even if a wrapper has the same behavior to be executed for different interfaces, it should have an equivalent interface to each of its intercepted ones