Invasive Software Composition composes software component by applying invasive composition operator (composer) to adapt the component. Those components are not expected to be exactly matched because they can be adapted. It allows flexible software composition. However, the constraints check on composition becomes more difficult. For examples, the partiality and permutation of parameter on composition yields to exponential combination which complicate the constraint check. Those constraint checks are part of reasoning that F-Logic can provide. F-Logic has unique feature of object-oriented and partiality of logic programming. Based on our previous work on mechanizing invasive software composition in F-Logic we will show how to use this mechanization and how those unique characteristics of F-Logic can be used to do the constraints check.

*Keywords*: Reusability, Reliability, Software Composition, Software methodology