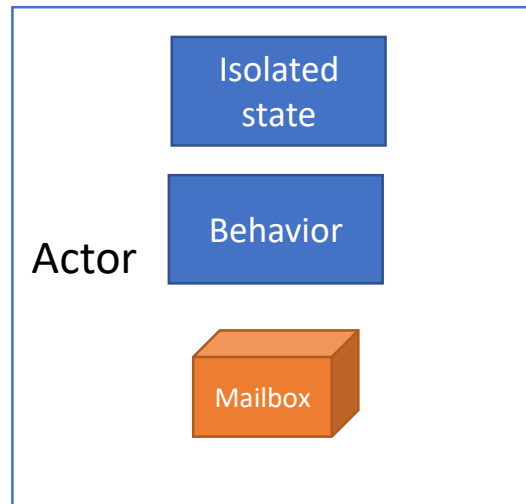
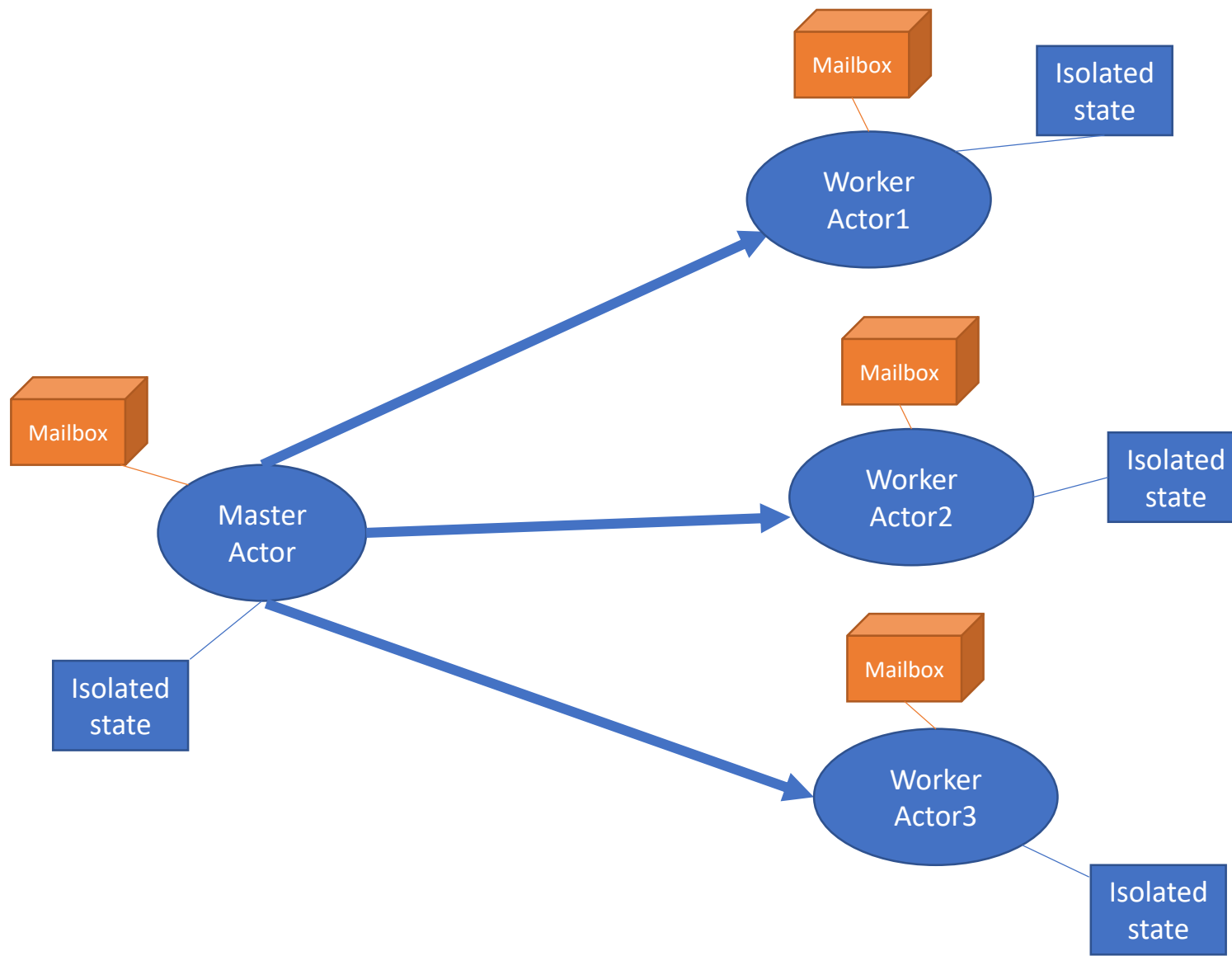


Akka

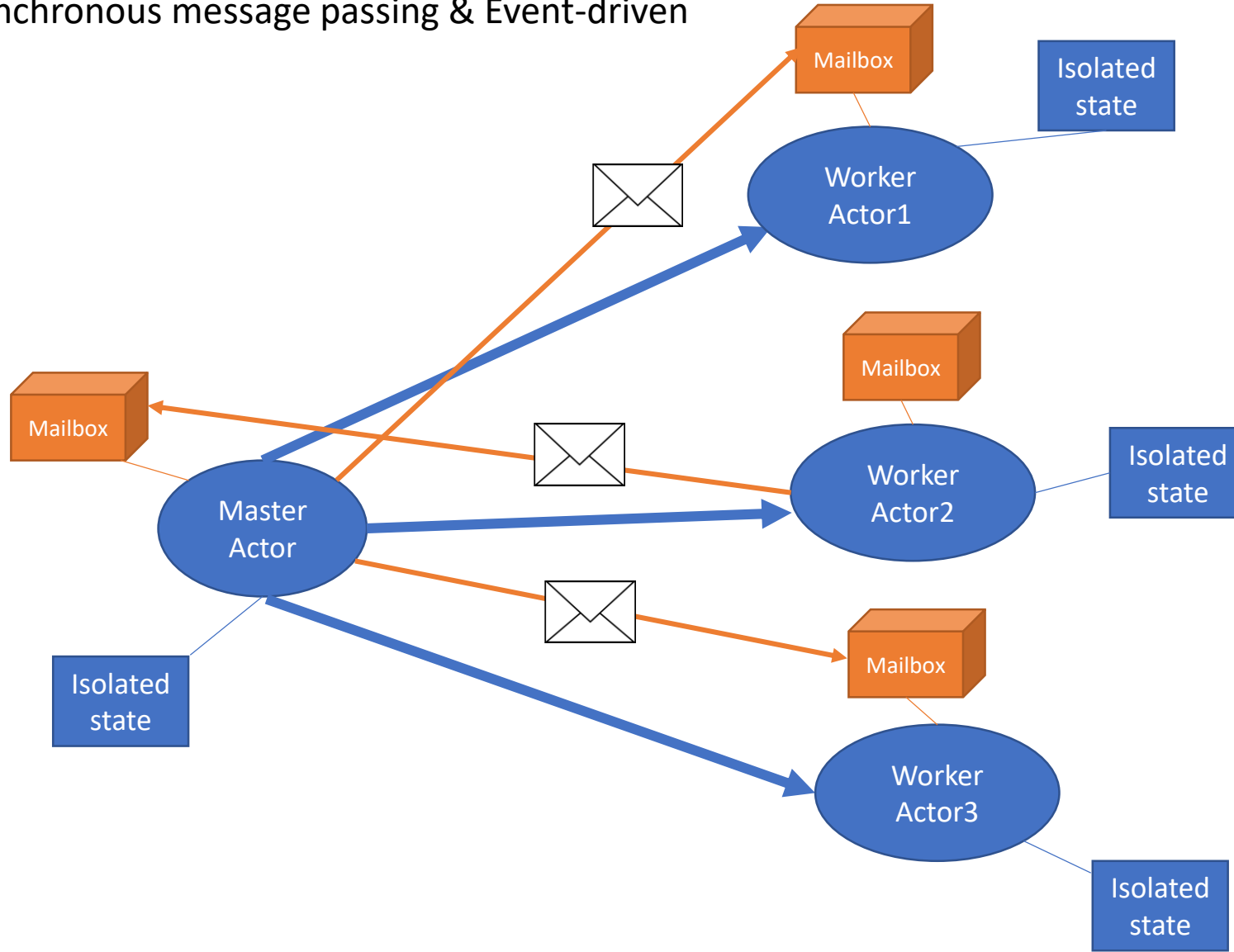
Use Actor model for new soot

Multiple actors share a thread

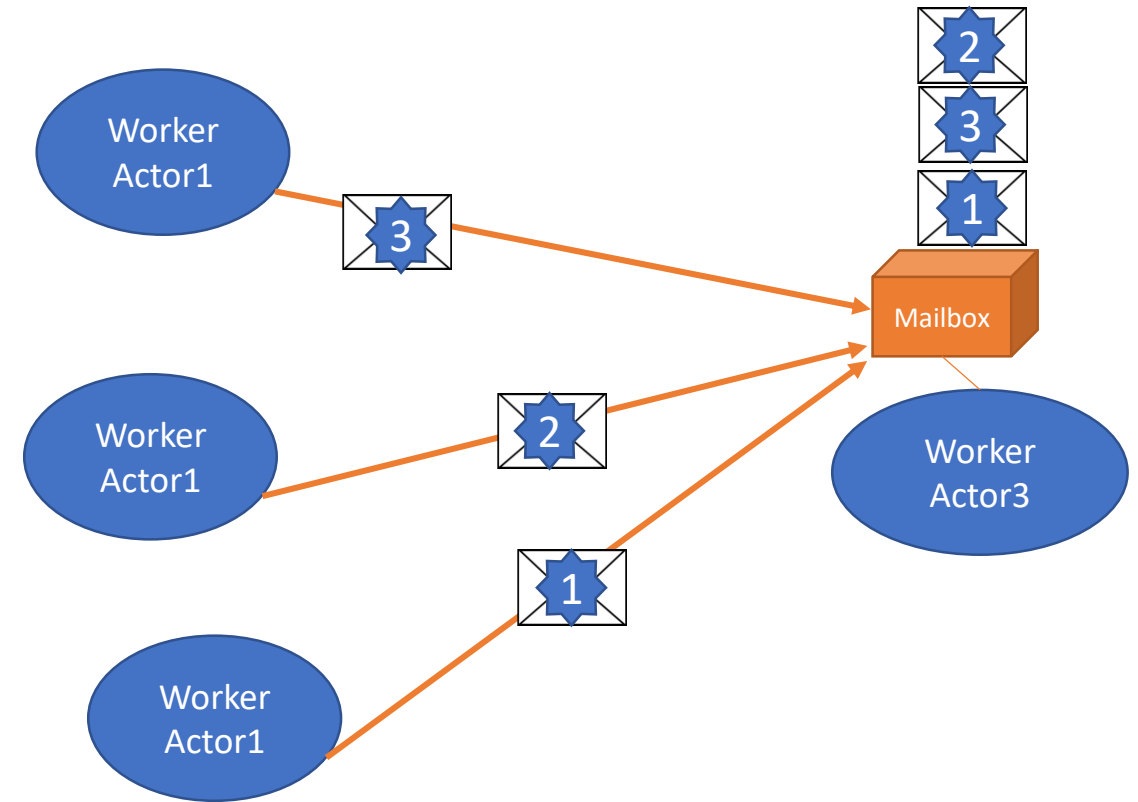
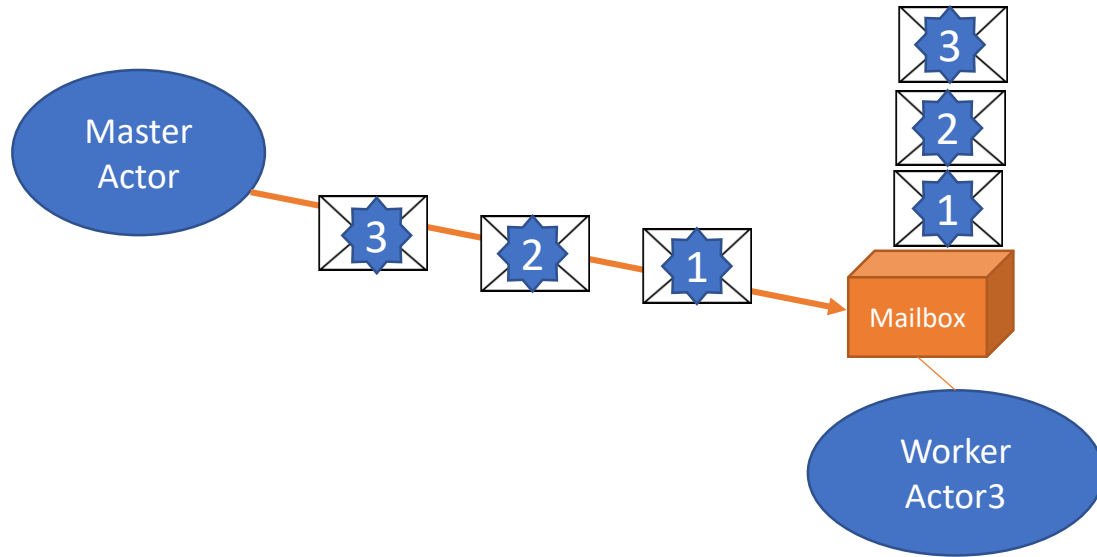




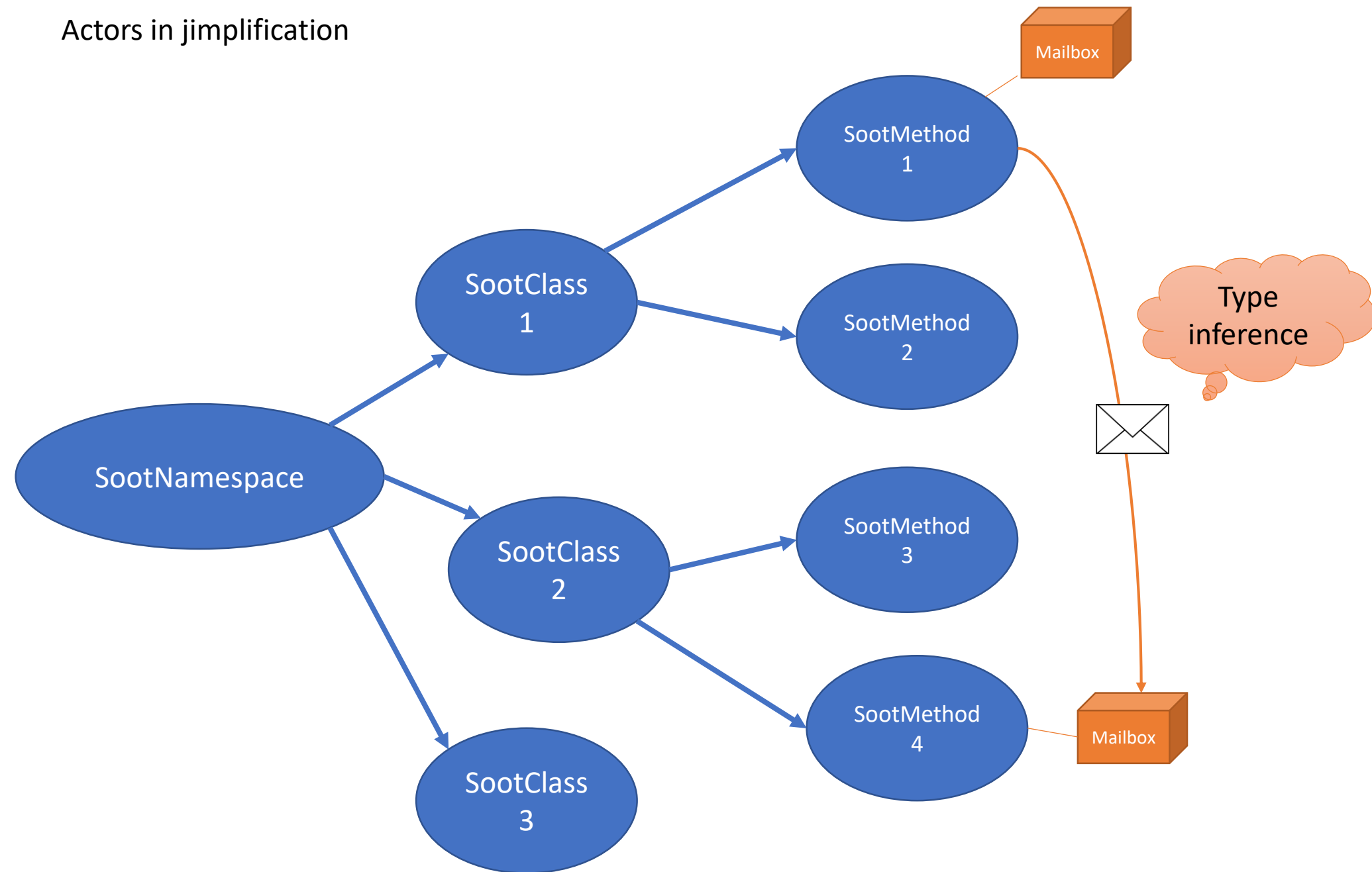
Asynchronous message passing & Event-driven



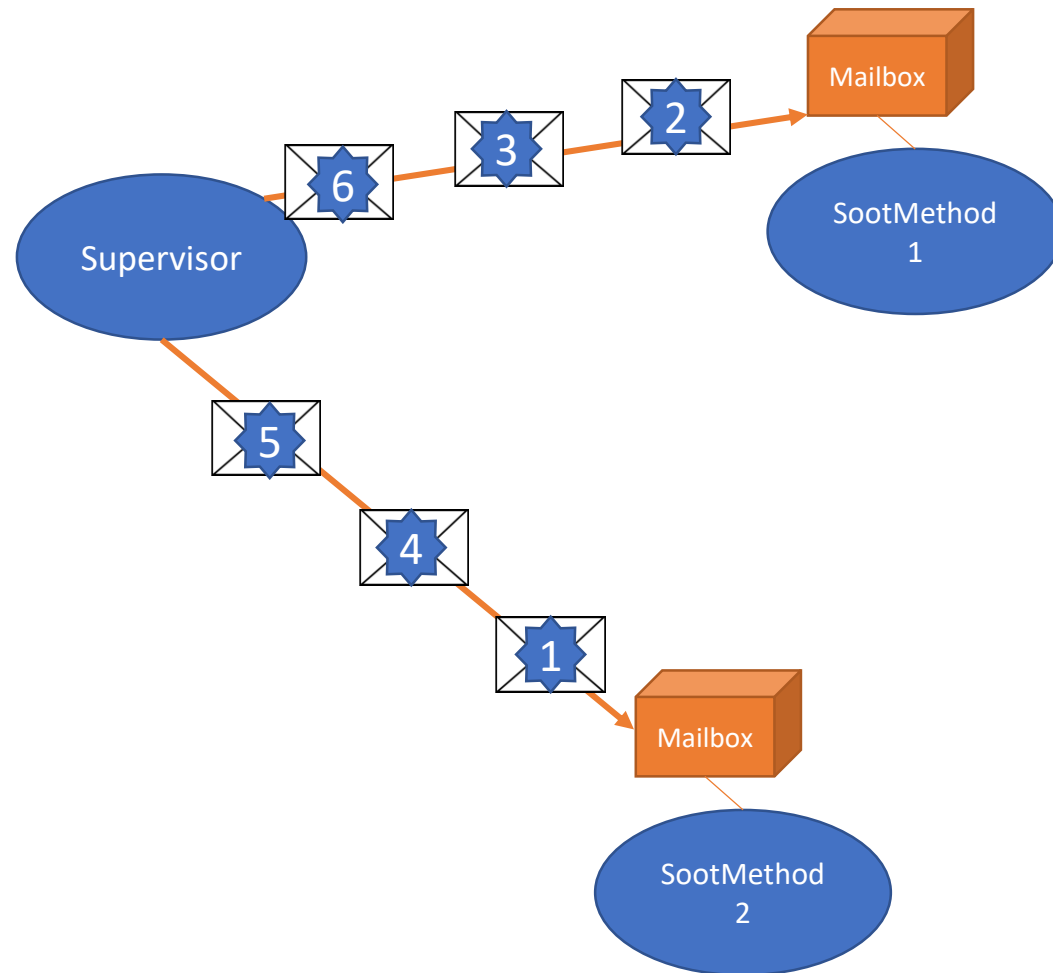
- 1 to 1
 - Sending multiple messages to the same target from the same actor, will enqueue them in the mailbox in the same order.
- N to 1
 - Messages enqueue without order
- Multiple options for the order to process the messages: default FIFO, messages can also be prioritized



Actors in jimplification

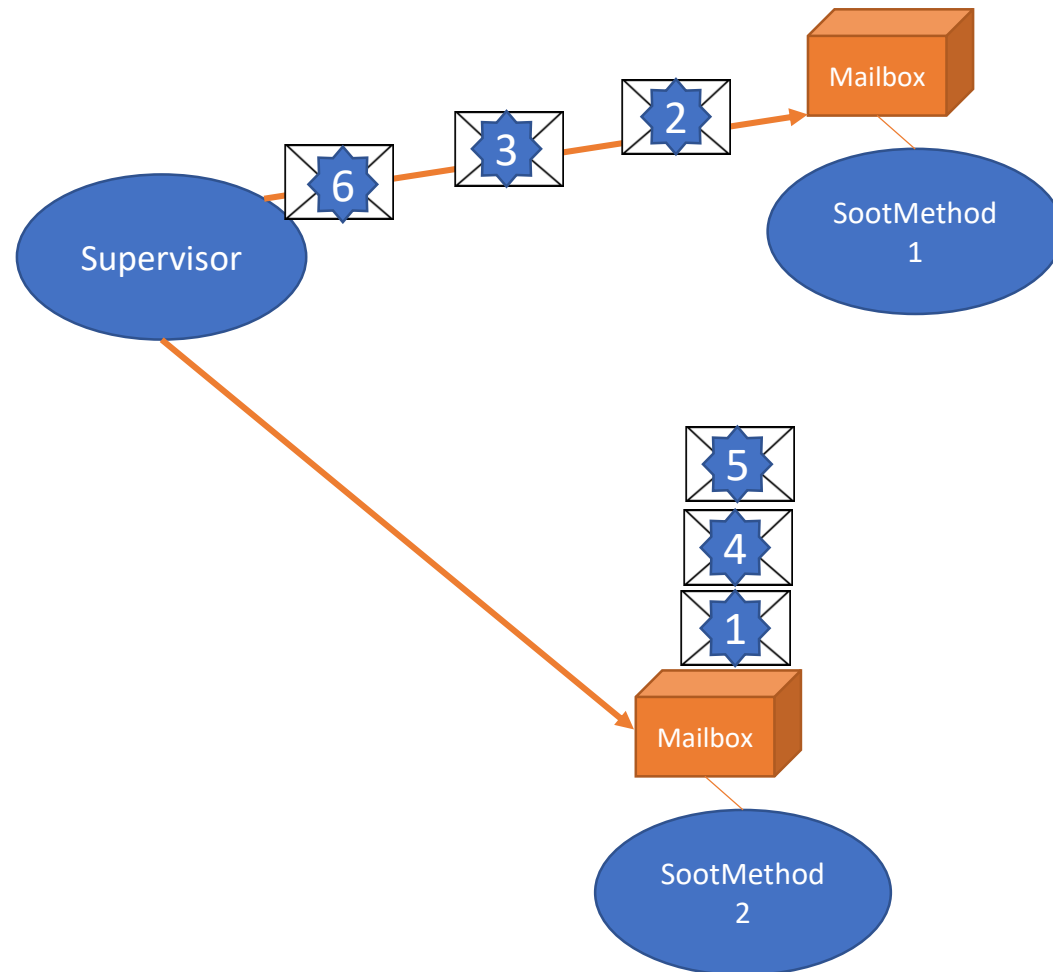


Updates with actors: changes in SootMethod



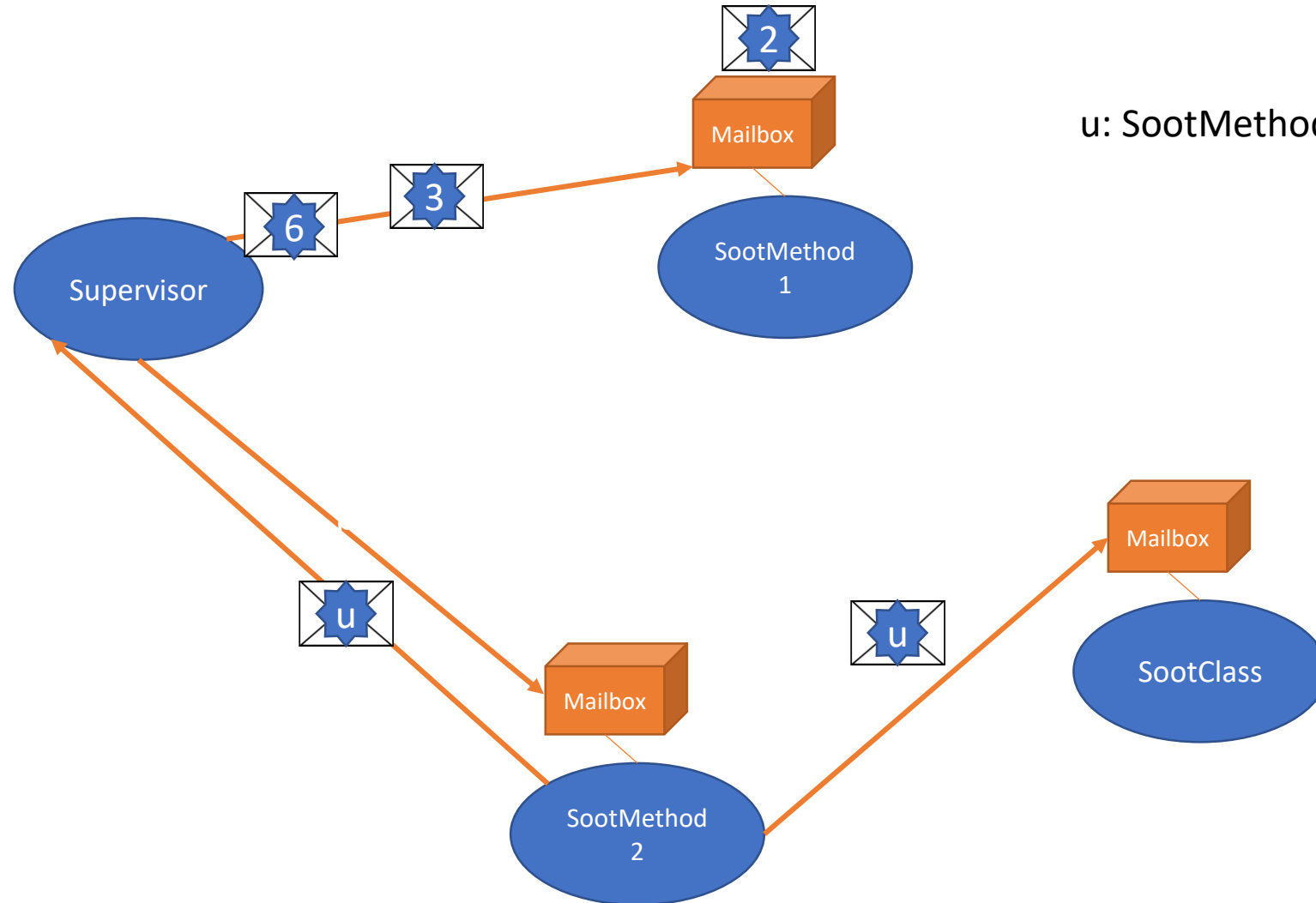
1: addStmt(s1)
2: deleteStmt(s3)
3: { addStmt(s2), addStmt(s4)}
...

Updates with actors: changes in SootMethod

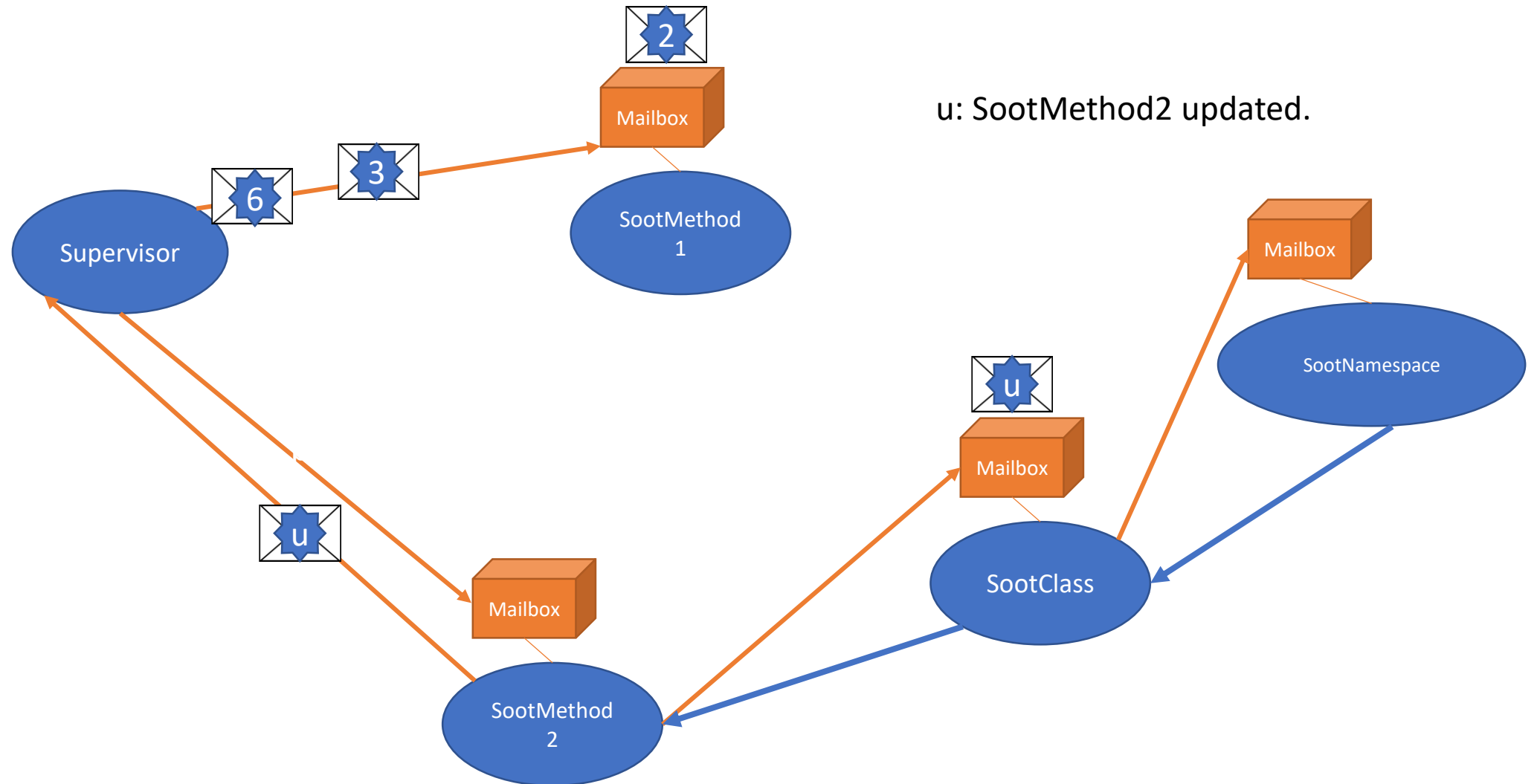


1: addStmt(s1)
2: deleteStmt(s3)
3: { addStmt(s2), addStmt(s4)}
...

Updates with actors: changes in SootMethod



Updates with actors: changes in SootMethod



Updates with actors: changes in SootBody

