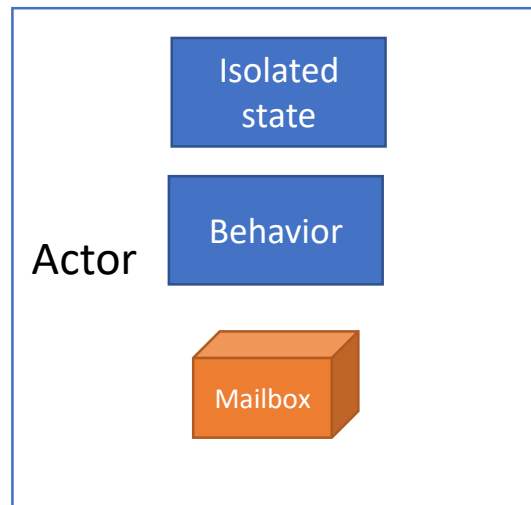
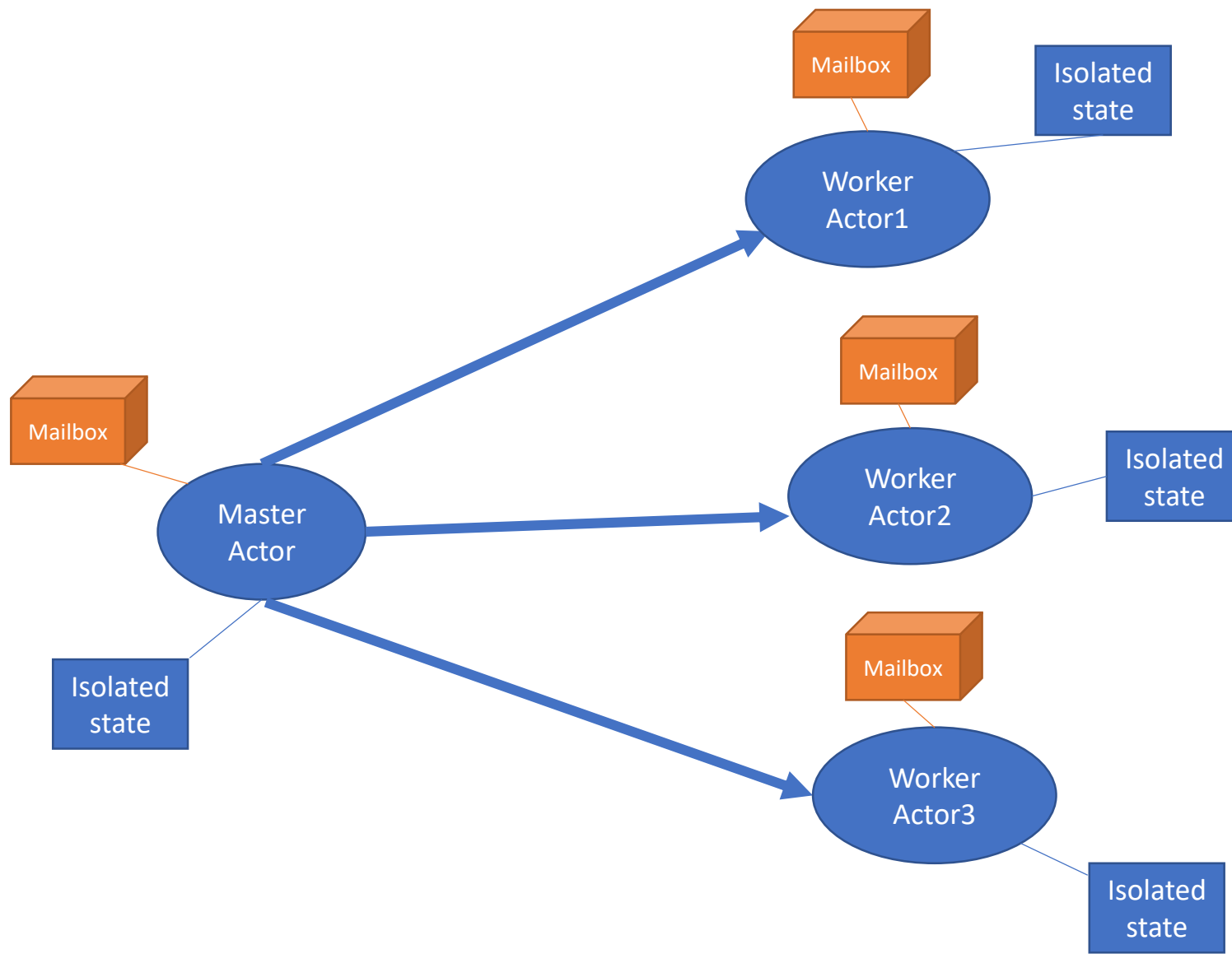


# Akka

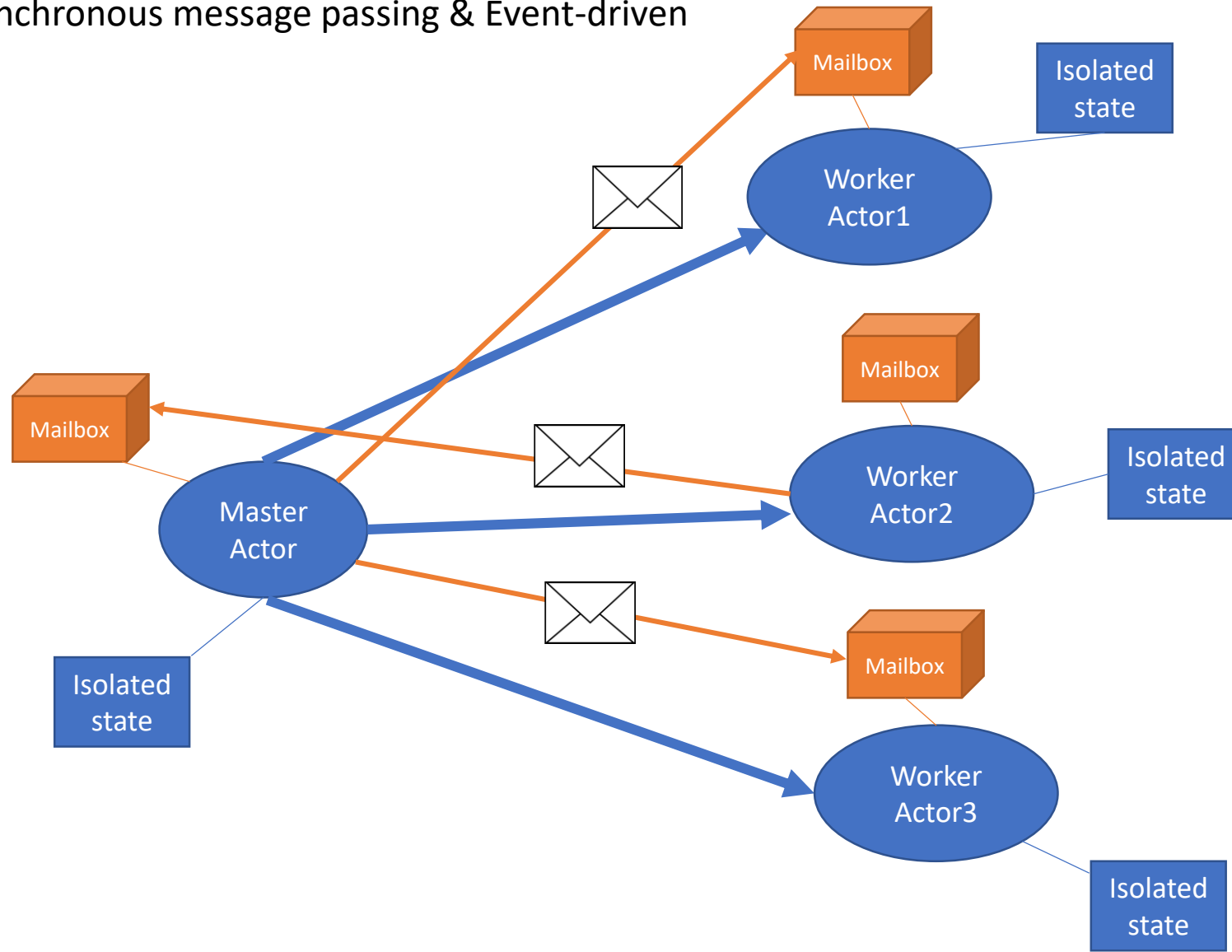
Use Actor model for new soot

Multiple actors share a thread

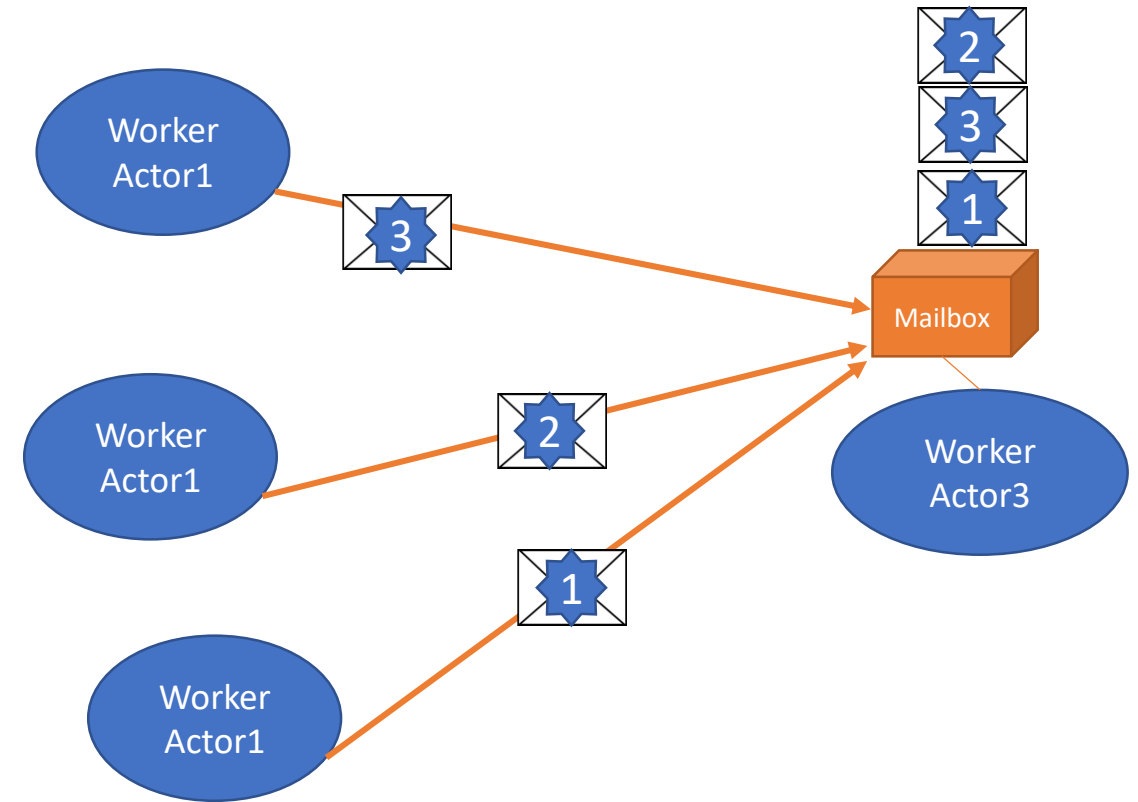
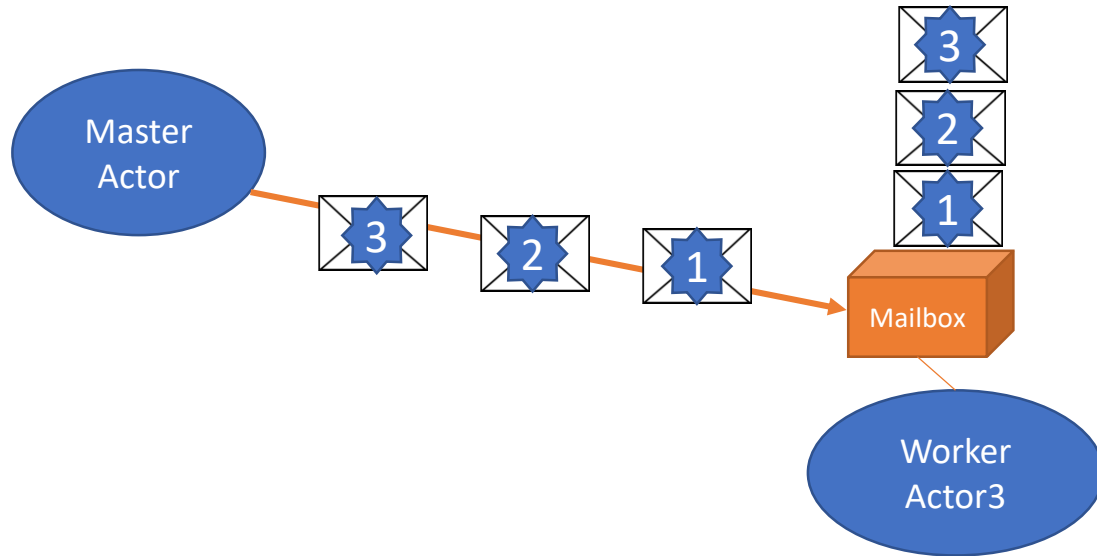




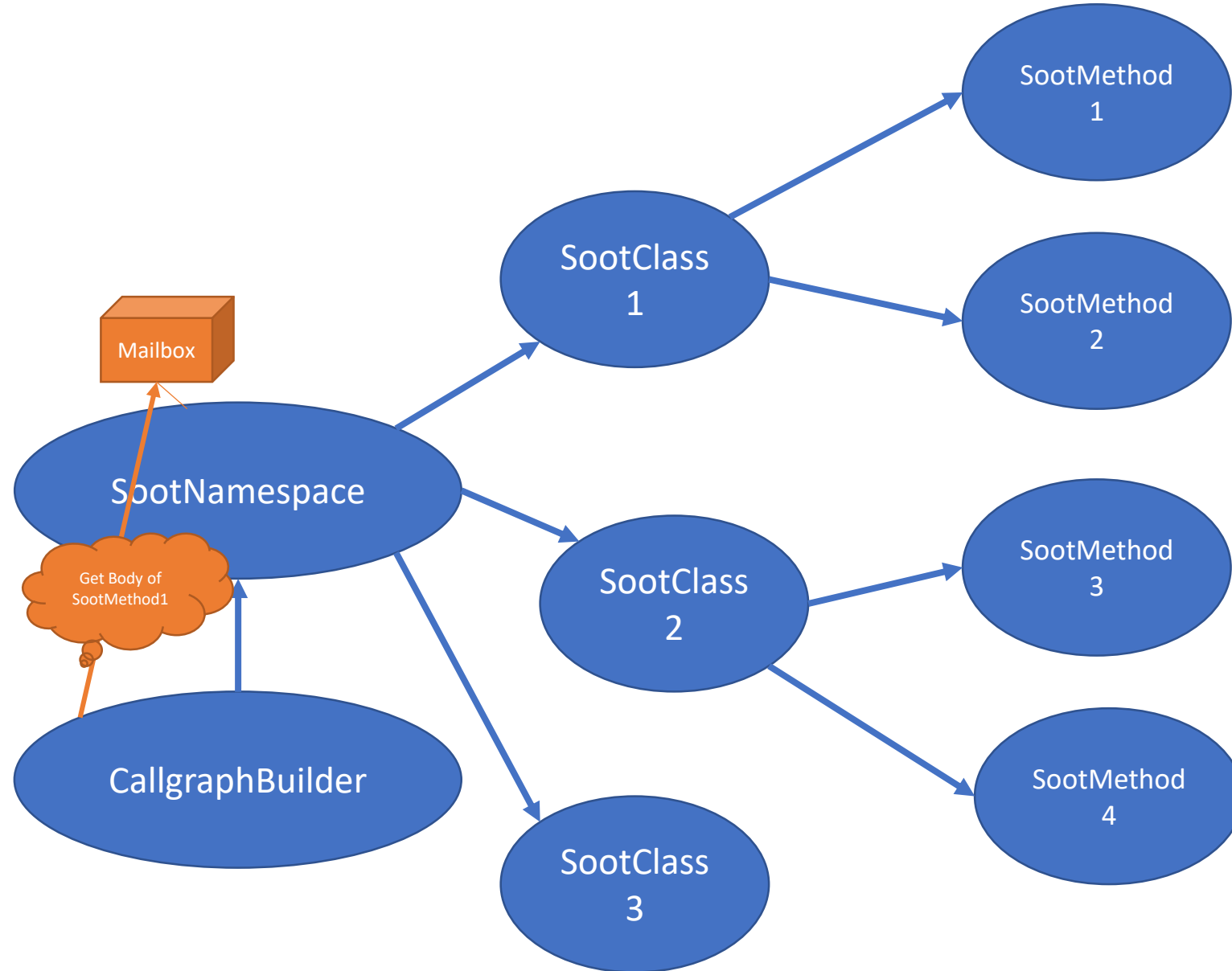
## Asynchronous message passing & Event-driven



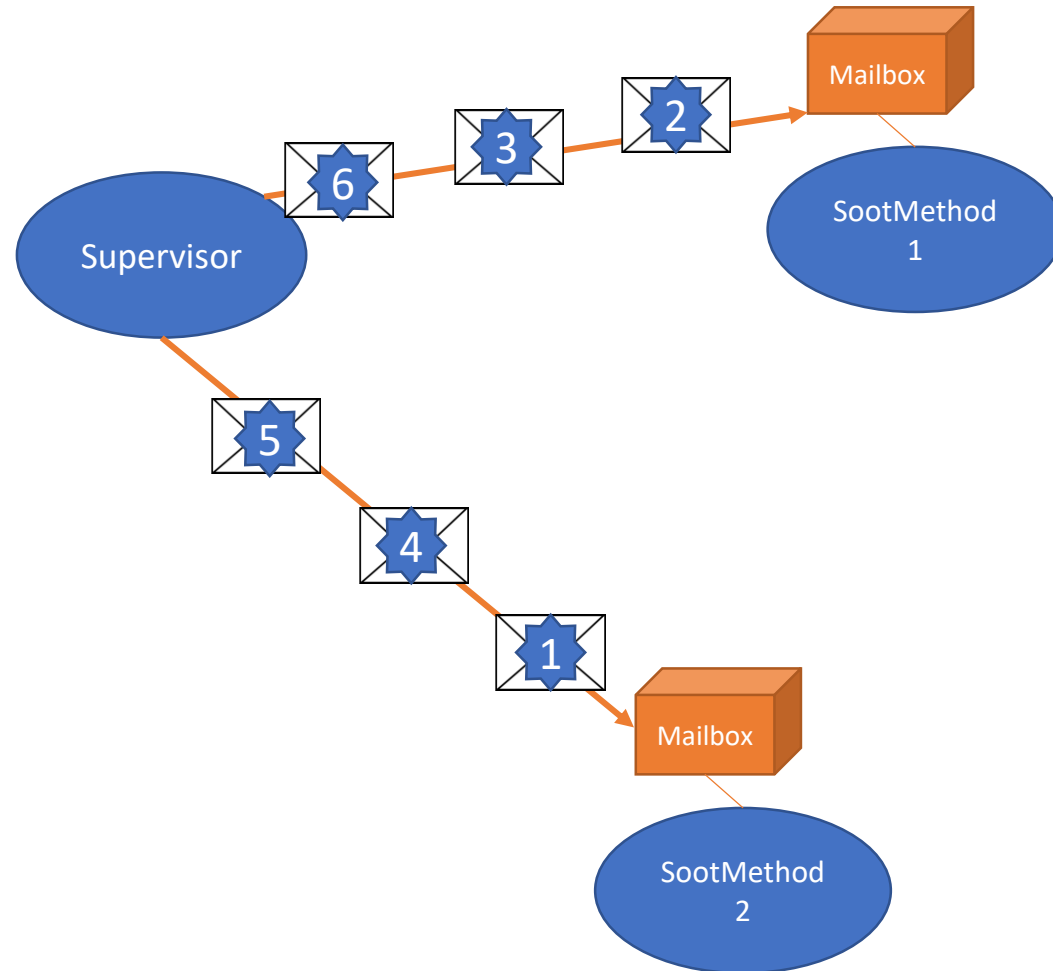
- 1 to 1
  - Sending multiple messages to the same target from the same actor, will enqueue them in the mailbox in the same order.
- N to 1
  - Messages enqueue without order
- Multiple options for the order to process the messages: default FIFO, messages can also be prioritized



## Actors



## Updates with actors: changes in SootMethod

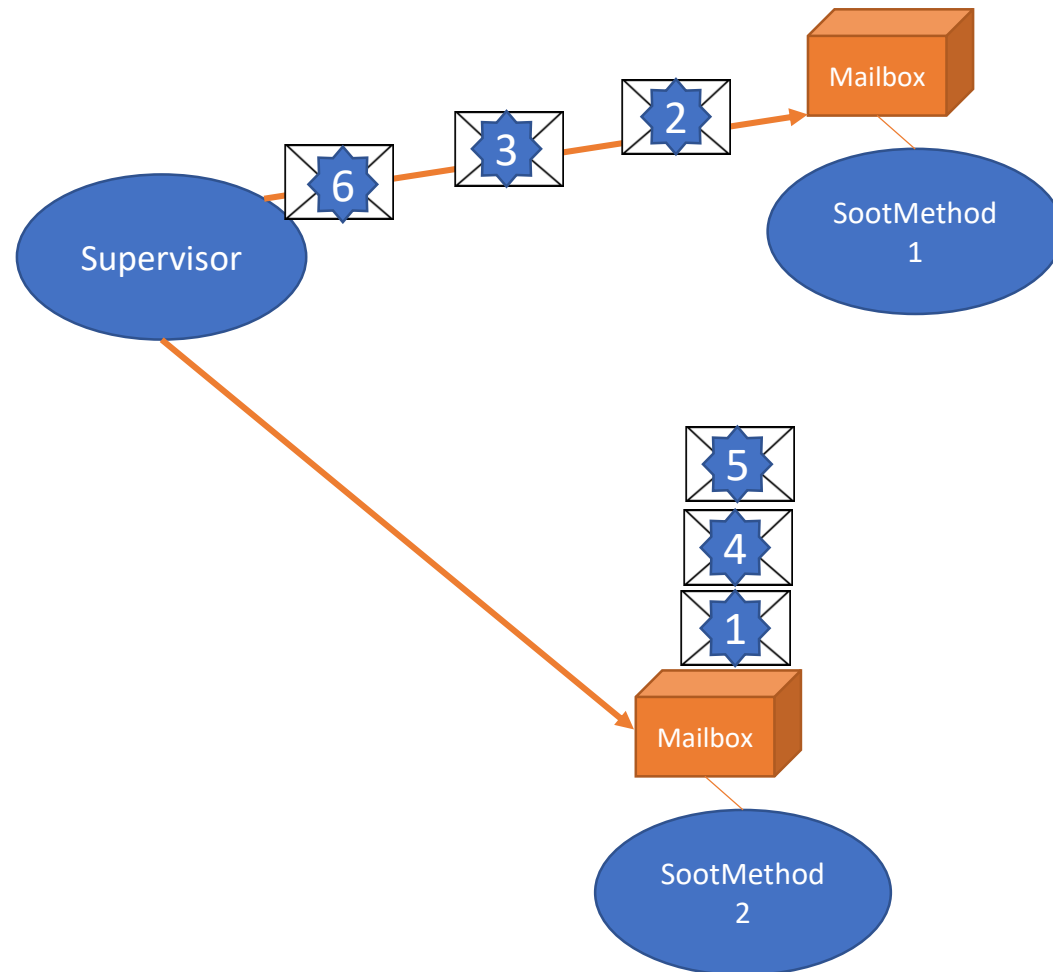


1: updateBody(b1)

2: updateBody(b2)

...

## Updates with actors: changes in SootMethod



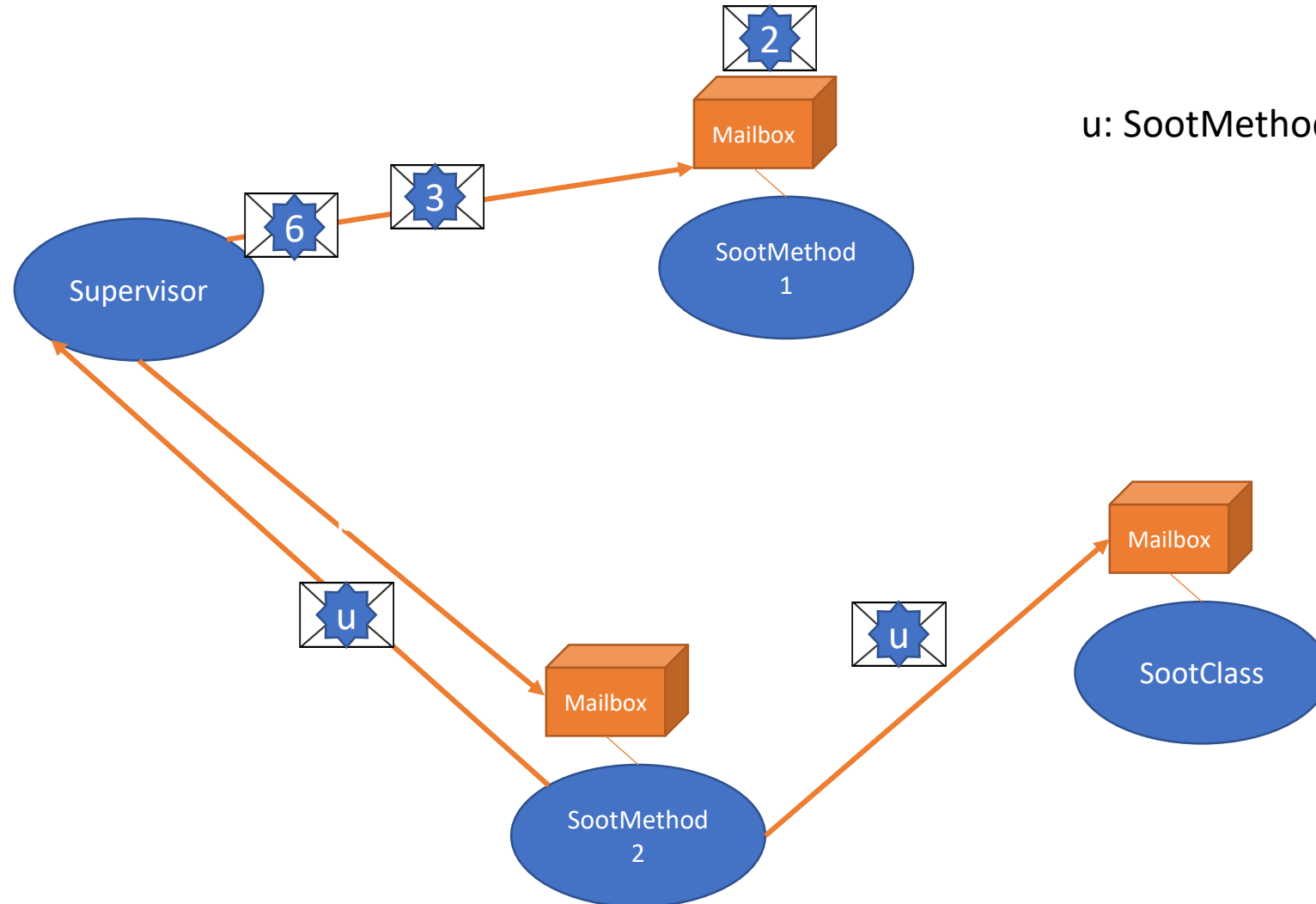
1: updateBody(b1)

2: updateBody(b2)

...

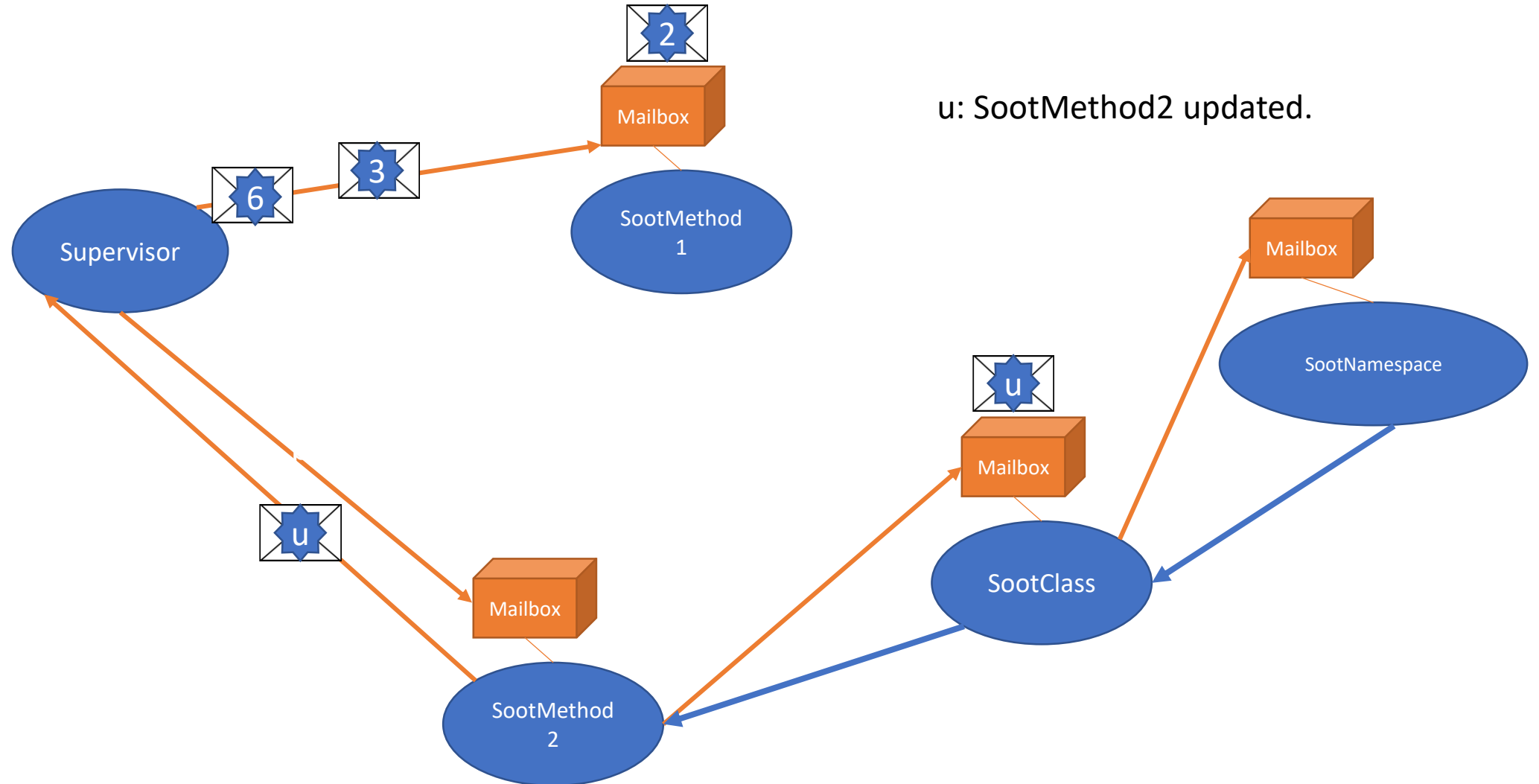


Updates with actors: changes in SootMethod



u: SootMethod2 updated.

Updates with actors: changes in SootMethod



Updates with actors: changes in SootBody

