Statechart for testing distributed message queues

start
topstate1 (concurrent)
start

start
sender (hierarchical)
start

topstate2 (concurrent)

receiver (hierarchical)

start

wait1
(state)

msgEvent

mDoneEvent

msgEvent

event to
message
(method)

message to
event
(thread)

wait2
(state)

rDoneEvent

msg
(state)

reply
(state)

ackEvent

ackEvent

message to
event
(thread)

event to
message
(method)

end

end