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Simulation System UML Sequence Diagram - evaluate changes   (UML Version 1.4)

m:Simulation	q:Queue	e:Event	b:Bus	r:Route	s:Stop

evaluateChanges( )

Loop

[For change in bus_changes:]

Alternative

[if change == ChangeType.SPEED]
setSpeed()

if change == ChangeType.ROUTE]
changeRoute()

replay_flag = false

rewindList.clear()

[if change == ChangeType.CAPACITY]
setCapacity()

evaluateChanges( ) loop through each string in the busChanges list. The string will be parsed with a comma delimiter. if the value of the first part of the string, token[0], will be evaluated to determine which statements to execute. For the route, the client is not allowed to request replay after a route change.
Example: if one of the changes was to change speed to 25.3 for bus 53, the string would read "speed, 53, 25.3"
token[0] = "speed" is used to execute the set(speed)= 25.3 for bus with busId = 53.

route strings will look like "route. busId, routeId, routeIndex"
speed strings will look like: "speed, busId, speedvalue"
capacity strings will look like: "capacity, busId, capacityvalue"