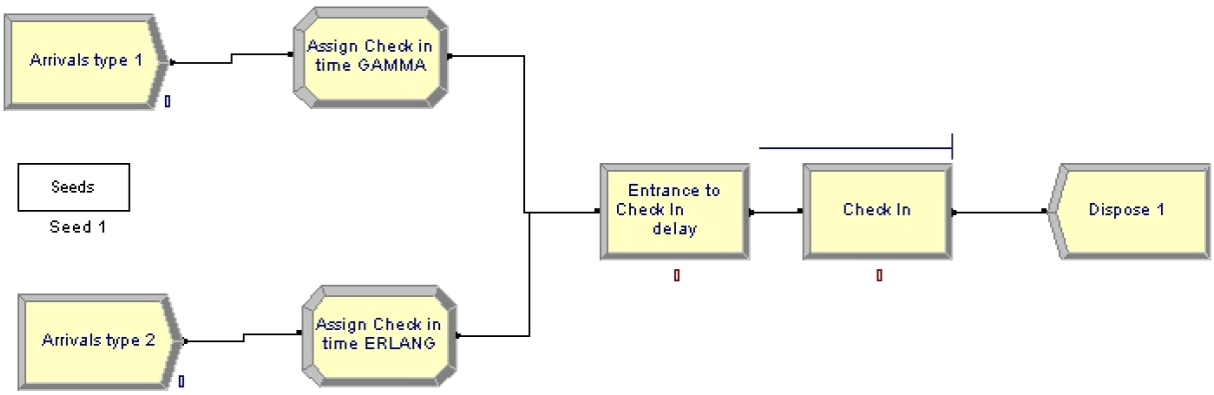
This exercise follows from Exercise 4-1. Actually there are two types of passengers. The first passenger type arrives according to an exponential interarrival distribution with mean 2.41 minutes and has a service time (in minutes) following a gamma distribution with parameters $\beta = 0.42, \alpha = 14.4$ (see Appendix C). The second type of passenger arrives according to an exponential distribution with mean 4.4 minutes and has a service time (in minutes) 3 + ERLA(0.54,15). Use the flowchart as a guide. The Assign modules should have Type: Attribute, Name: Checking Time, with Expression defining the corresponding service time for the passenger type. The Process Module should use Delay Type: Checking Time.



To compare the solution of this model from Exercise 4-1 solution (available on blackboard) include in your report a two-row table with three columns showing the Averages (Total Time, Number of passengers completing check-in, Length of the check-in queue).

Submit your report as a pdf file (obtained from a MS Word file) onto Blackboard showing your name and USC ID, and for each problem below include a screen shot of your model and of a table with the required results.
Report must be made of letter size pages in portrait format (not landscape). Animations are not needed. Use seed value equal to 111.