

Evolving time:

6

for example by sampling the inter-event time distribution if this is known: ۸. The times between events are r.v.s with an associated distribution

 inter-event times are samples from that distribution. We need to be able to sample these distributions. Identify the entities in the system that have to be modelled

Identify the model states (program state variables) these specify where each entity is and what it is doing Identify the event types, recalling that each state

Designing a simulation model: 1. 3.

may be parameterisable, e.g. "arrival at location a") For each event, specify i, how it changes the current state, ii. what new events need to be scheduled and what old events need to be cancelled (descheduled) when it fires

transition is triggered by an event (note that some events Λ

5.

Add code to accumulate measurements whilst the

simulation executes

specified event, etc.

Add code to output results when the program terminates, e.g. after T simulated time units. N occurrences of a