

Discrete System Simulation

To simplify a task of writing a discrete simulation program, a number of programming languages are used. The two most common used languages are :

- 1) GPSS (General Purpose Simulation Software)
- 2) SIMSCRIPT

These languages are used to describe a system and establish a system image and execute a simulation algorithm. Most programming also provides report generator. These language also offer many convenient facilities such as:

- a) Automatic generators of streams of pseudo random numbers for any desired statistics destination.
- b) Automatic data collection
- c) Their statistics analysis and report generators.
- d) Automatic handling of queues, etc.

In addition, a good simulation also provides a good builder with the view of the world that next building easier. Every discrete system simulation language must provide the concept and statement for:

- a) Representing the state of a system at a single point in time(static modeling)
- b) Moving a system from state to state (Dynamic Modeling) and
- c) Performing relevant task such as generation of random number, data analysis and report generation.