

## Chapter 4

# Simulation Programming with VBASim in MATLAB

This chapter shows how simulations of some of the examples in Chap. 3 can be programmed in VBASim in MATLAB. The goals of the chapter are to introduce VBASim, and to hint at the experiment design and analysis issues that will be covered in later chapters.

### 4.1 VBASim Overview

VBASim in MATLAB is a collection of MATLAB Scripts, Functions and Class M-files that aid in developing discrete-event simulations. They are entirely open source and can be modified to suit the user. The random-number and random-variate generation routines are MATLAB translations of the corresponding routines in simlib (Law 2007) which is written in C. VBASim is designed to be easy to understand and use, but not necessarily efficient.

Here is a brief description of the Scripts and Functions in VBASim:

```
function VBASimInit:  Initializes VBASim for use, typically called before
the start of each replication.
function Schedule:   Schedules future events.
function SchedulePlus:  Schedules future events and allows an object to
be stored with the event.
function Report:    Writes a result to a specific row and column of an Excel
worksheet.
function ClearState:  Clears certain statistics being recorded by VBASim.
function InitializeRSeed:  Initializes the random-number generator;
typically called only once in a simulation.
function Expon:     Generates exponentially distributed random variates.
function Uniform:  Generates uniformly distributed random variates.
function RandomInteger:  Generates a random integer.
function Erlang:    Generates Erlang distributed random variates.
```

# Chapter 4 Simulation Programming With Vbasim In Matlab

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