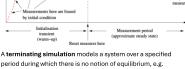
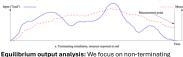
A non-terminating simulation, seeks to model a system at "equilibrium", a.k.a. "in steady state", where $p_s(t) \to p_s$ as $\to \infty$.

Output Analysis





simulations.

Assume we are using simulation to estimate some "long-run"

performance measure, e.g. mean population, mean response time, resource utilisation, etc.

time, resource utilisation, etc.

The initial state is typically fixed (e.g. all queues empty), so the initial state probability distribution is different to the distribution.

initial state probability distribution is different to the distribution after some time t >> 0, say, and measures take time to settle.

To avoid initialisation bias we must either:

1. Discard the initialisation transient by resetting the

measured after some "warm-up" time has elapsed.

Measure for "long enough" to render any bias insignificant.