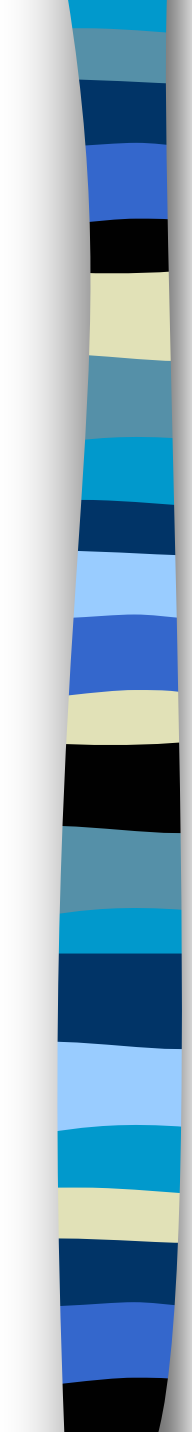


Systems Modelling and Simulation (Lab session 7)



After this session you should understand

1. Time frame of simulation
2. Strategy for data collection
3. Comparison of two scenarios – Output Analyser
4. Evaluating many scenarios with Process Analyser



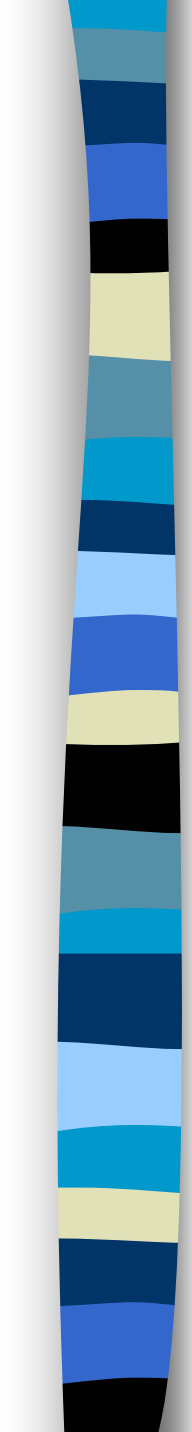
Statistical analysis of output from terminating simulations (chapt. 6)

- Time frame of simulations
 - **Terminating simulations:** Model dictates specific starting and stopping conditions reflecting how actual system works.
 - **Steady-State simulations:** Quantities to be estimated are defined in the long run, (i.e. over a theoretically infinite time frame).
- Strategy for simulation data collection and analysis
 - **Terminating simulations**
 - *Collect appropriate data for n independent replications*
 - *Make sure both system and statistics boxes are checked for initialization between replications to ensure statistically IDD replications. (there may be exceptions)*
 - **Save output to .dat file and use Arena's Output analyser**



Comparing two scenarios

- Using the Output Analyser



Evaluating many scenarios with the process analyser.

- Using the Process Analyser