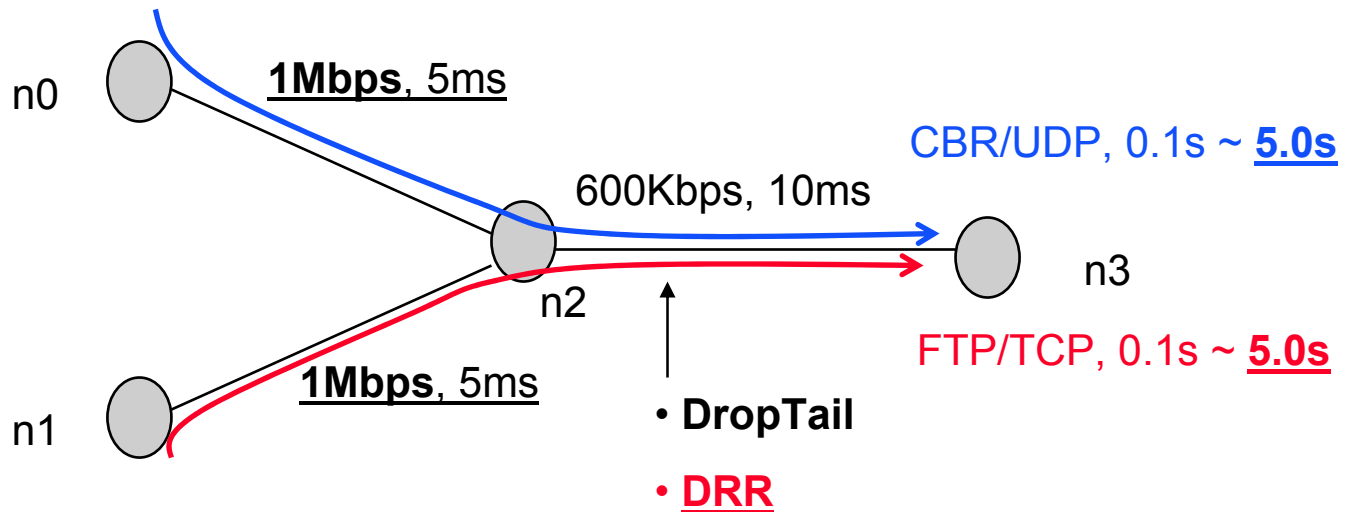


Assignment #2

- TCP/UDP bandwidth sharing analysis



- Deficit Round Robin (DRR) is a simplified implementation of Fair Queueing (FQ) which targets to give fairer bandwidth allocation than FIFO DropTail.

Submission

- Write ns2 script.
- Compute the percentage of link n2-n3 bandwidth shared by TCP and UDP, respectively, based on ns2 traces.
- Submissions:
 - Ns2 simulation script;
 - Postprocessing program (eg. Awk, perl, etc.);
 - Analysis of bandwidth sharing at bottleneck link n2→n3 of TCP and UDP sources.
- All in text format.
- Due this coming Sunday Sept 11, 11:55pm

GRADUATE STUDENTS: Additional Task

- Browse the ns-2 manual and David Harrison's graphing tutorial. You need to be very comfortable with ns-2 for your research project.
- **ns-2**: Briefly discuss the different ways in which the oTcl portion of ns-2 interfaces with the C++ portion (hooks, bindings, tracing, shadow objects, command methods, embedded tcl, instvar etc).
- **Graphing/Animation**: Give an example of when animation more useful in eliciting performance information than what is possible with a collection of graphs? Vice-versa: when would you prefer graphs to animations?
- **Models**: Briefly summarize the various model options available in ns-2 at the transport layer, application layer, routing layer and queue layer.