The UCL/LBL/Sun Streams Implementation of CBQ

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Introduction

- Scheduling code from Sally Floyd and Van Jacobson
- Wrapped into a Streams module written by Atanu Ghosh
- Classifier engine

Classifier Requirements

- Started by noteing mapping of class semantics onto IP semantics
- Problems with Default Classes - may have child classes of default, so require multi-level lookups.
- Bite the bullet and have lookup for child classes at each level - but shallow tree.
- Allows tuning of lookup engine to the peculiarities of fields used in determining classes.

Future Work

- Field Trial on Fat pipe
- Dynamic update and addition of classes
- Tidy and release code
- Integrate code with RSVP/Sun/LBL/kitchen sink

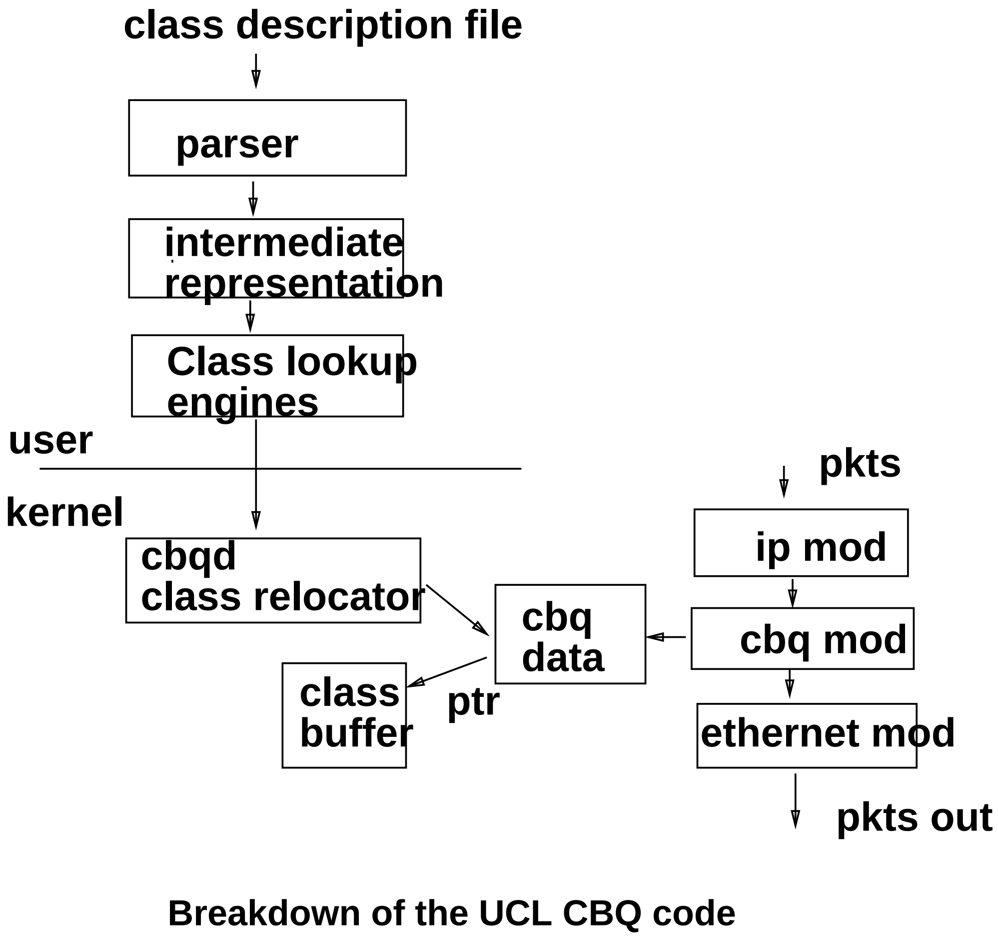

Figure 1: Breakdown of the current UCL CBQ code

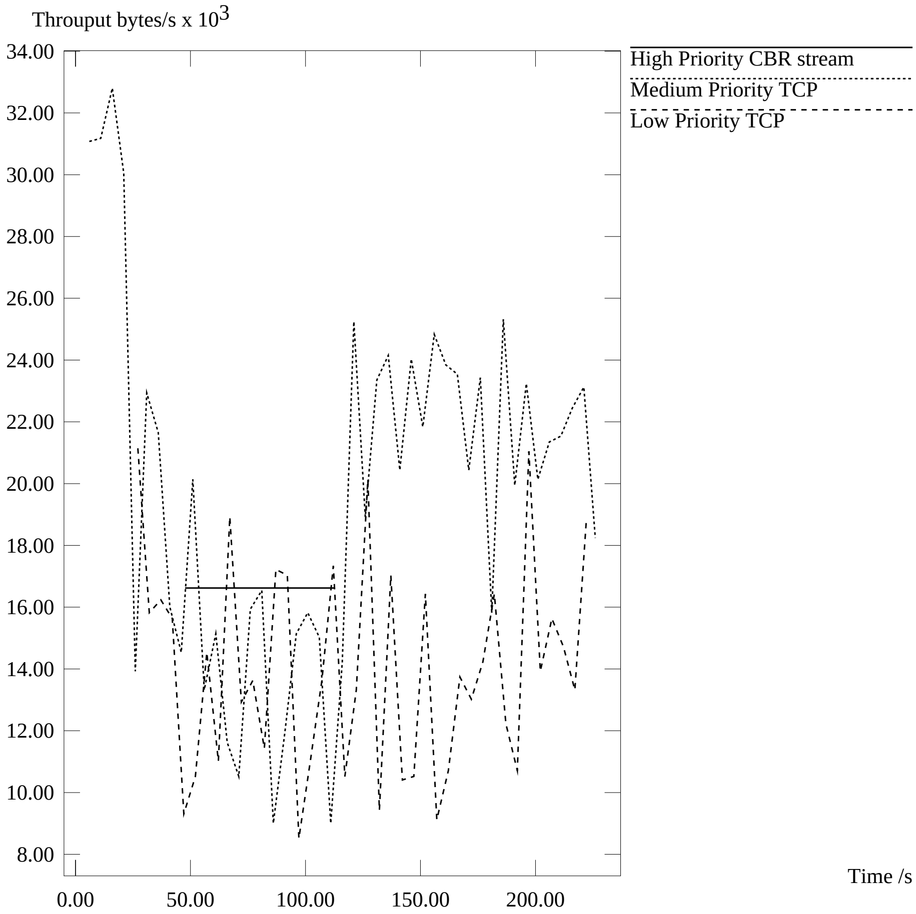

Figure 2: Throughput for the illustrative Streams Experiment