

Analyzing Performance

Efficient mutual exclusion algorithms use fewer messages, and make processes wait for shorter durations to access resources.

Three metrics:

- **Bandwidth**: the total number of messages sent in each *enter* and *exit* operation.
- **Client delay**: the delay incurred by a process at each enter and exit operation (when *no* other process is in, or waiting)
(We will prefer mostly the enter operation.)
- **Synchronization delay**: the time interval between one process exiting the critical section and the next process entering it (when there is *only one* process waiting)