

## Problem with shared memory API

Unsynchronized

### Semaphore (Flagging) Behavior

Like a mailbox flag. A variable that gives permission for use.

Shared memory is protected from the child until the parent grants it authority. Similarly, the parent waits for the child to set a value before it reads it.

Mutual exclusion – MUTEX – among multiple things, only one exclusively is allowed to use the shared variable at a time.