

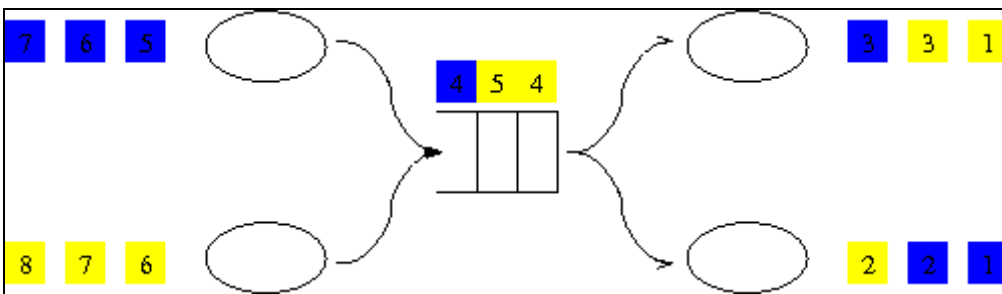
# Resources

## Mwmr

multi reader fifos

Special kind of fifos where any number of producers and readers may be "connected". This fifos provides the following features:

- Transfers are done in indivisible blocks of contiguous data
- Read/Write? operations are done in packets of one or more blocks
- Blocks may be read/written in between of others, even in one write operation
- Blocks always arrive in order (even if not contiguous because of preceding point)



```
fifo1 = Memr("first_fifo",  
            4, # Width, in 32-bit words, this is block size  
            64) # Depth, in number of blocks
```

## Lock

Simple mutex, implemented through spin locks.

```
lock1 = Lock("first_lock")
```

## Barrier

Synchronization point between tasks. All tasks connected to a barrier must wait for it before going any further.

```
barr = Barrier("sync")
```

## Memspace

Shared (or not) memory declaration, may be used to have global memory space shared between tasks.

```
memsp = Memspace("mem_name", 32768)
```

## Const

Constant integer values.

```
cex = Const(1)
```