

1. Binary semaphore

Binary semaphore:

Semaphore which are restricted to the values

Semaphore which are restricted, unavailable /

O and I for locked / unlocked, unavailable /

ore used to implement locks:

The is a means of suspending active processes

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which are later to be reactiveded cet such

time conditions are right for it to continue.

A binary semaphore is a pointer which

when held by a process greats them exclusive

use to their critical section. It is a (sort

of) integer variable which can take the

value of or I and he operated upon only

by two commands termed in English went &

A counting semaphore can be implemented as follows:

- \* Initialize initialize to non negative integer \* Decrement (sem weit)
  - \* process exercises this to receive a single
  - \* If single one not transsmited, process

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- \* Decements semaphore value
- \* If value becomes negative, process is blocked
- \* otherwise it continues exerction

## \* Innement (sem signed)

- \* process exercetive it to transmit a signal via semaphone
- \* increments semaphore value \* If value is less than or equal to Zero, process blocked by sem wait
- · is unblocked

## Conclusion

Consumer problem using 'C' in Linux