CSE 430: Operating Systems

Fall 2015

Class: 14
Date: 10/14

Note Title

Next Item
Read
\[ P \{ \text{white} \} \]
\[ \text{if} \ (n_c = 1) \]
\[ \times \]
\[ P \{ \text{white} \} \]
\[ \text{if} \ (n_c = 0) \]
\[ \times \]
\[ P \{ \text{white} \} \]
\[ n_c - 1 \]

Write
\[ P \{ \text{white} \} \]
\[ \text{for} \ n_c = 0 \]
\[ \times \]
\[ n_c 
\]
\[ \text{Sea} \]
\[ \text{must } \rightarrow 1 \]
\[ \text{must } \rightarrow 1 \]
\[ \text{must } \rightarrow 1 \]
\[ 0 = n_c \]
Readers are cut from open market. W is write. V is write. Only 1 to cut. (Writers first)

When

Write

Write
as close as 1 m ends

E e = E m

$\hat{g}$
Reader Entry

\[ P(rmutex) \]
\[ rc++ \]
\[ V(rmutex) \]

Reader Exit

\[ V(rmutex) \]
\[ rc--; \]
\[ if \; rc==0 \; V(wsem); \]

Writer Entry

\[ P(wmutex) \]
\[ wc++; \]
\[ if \; wc==1 \; P(rsem); \]

V(wmutex);

Writer Exit

\[ V(wmutex) \]
\[ wc--; \]
\[ if \; wc==0 \; V(rsem); \]
A new entry

If no matching, new

Case 2 - registration

As can entry

After

If in existing one

Case 1 - no registration
also read experience, in echo type

As are left in (no money)

When art means all the working

If we are if we want, no as always in
Wew → 0
Rexx → 0
Sem to block

1

Rate of waste

Course

The waste of water

0
Reader Entry

\[ \text{P}(\text{mutex}); \]

\[ \text{if} \ (\text{wwc}>0) \ or \ (\text{wc}>0) \ { \}
\]
\[ \text{rwc}++; \]
\[ \text{V}(\text{mutex}); \]
\[ \text{P}(\text{rsem}); \]
\[ \text{P}(\text{mutex}); \]
\[ \text{rwc}--; \ ]; \]
\[ \text{rc}++; \]
\[ \text{V}(\text{mutex}); \]

Reader Exit

\[ \text{P}(\text{mutex}); \]
\[ \text{rc}--; \]
\[ \text{if} \ (\text{rc}=0) \ & \ & (\text{wwc}>0) \ \text{V}(\text{wsem}); \]
Writer Entry

if (rc>0)||(wc>0)||(rwc>0)||(wwc>0) {
    wwc++;
    V(mutex);
    P(wsem);
    P(mutex);
    wwc--;
} wc++;
V(mutex);

Flush Exit

Writer Exit

if (rwc>0) then
    for (i=1; i<=rwc; i++) V(rsem)
else if (wwc>0) V(wsem);