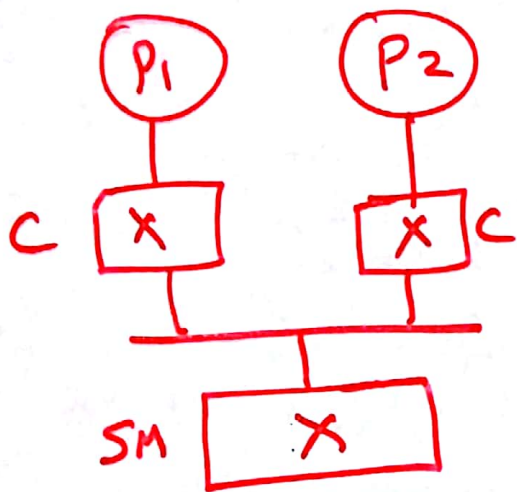


①

Data Sharing



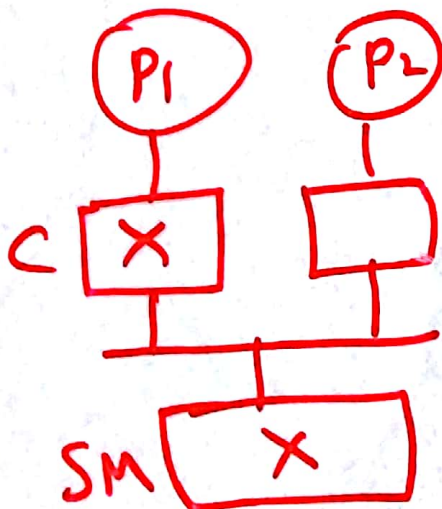
P_1 modifies data using write-through cache

$$\Rightarrow \begin{cases} SM \leftarrow X' \\ P_1 \text{'s Cache} \leftarrow X' \\ P_2 \leftarrow X \end{cases}$$

if: Write back

$$P_1 \leftarrow X', \quad \left. \begin{matrix} SM \\ P_2 \end{matrix} \right\} \leftarrow X$$

Process Migration: process containing X migrates to P_2 ;



Before migration

Write through $P_1 \rightarrow P_2$

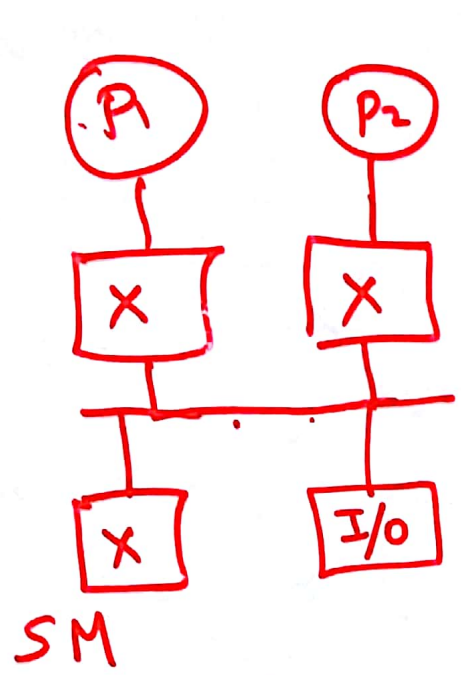
$$P_1 \leftarrow X' \quad SM \leftarrow X'$$

$$P_2 \leftarrow X$$

Write back $P_1 \xrightarrow{w(x)} P_2$

$$\begin{aligned} P_1 &\leftarrow X' \\ P_2 &\leftarrow X \\ SM &\leftarrow X \end{aligned}$$

I/O operation by-passing caches



$I/O \rightarrow M$
 $\Rightarrow SM \leftarrow X'$
 $P_1, P_2 \leftarrow X$