

Logique en "Dynamique"

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1 Introduction

$X(y) \dashv\vdash [F] \dashv\vdash Y(t)$

2 Fonction simple

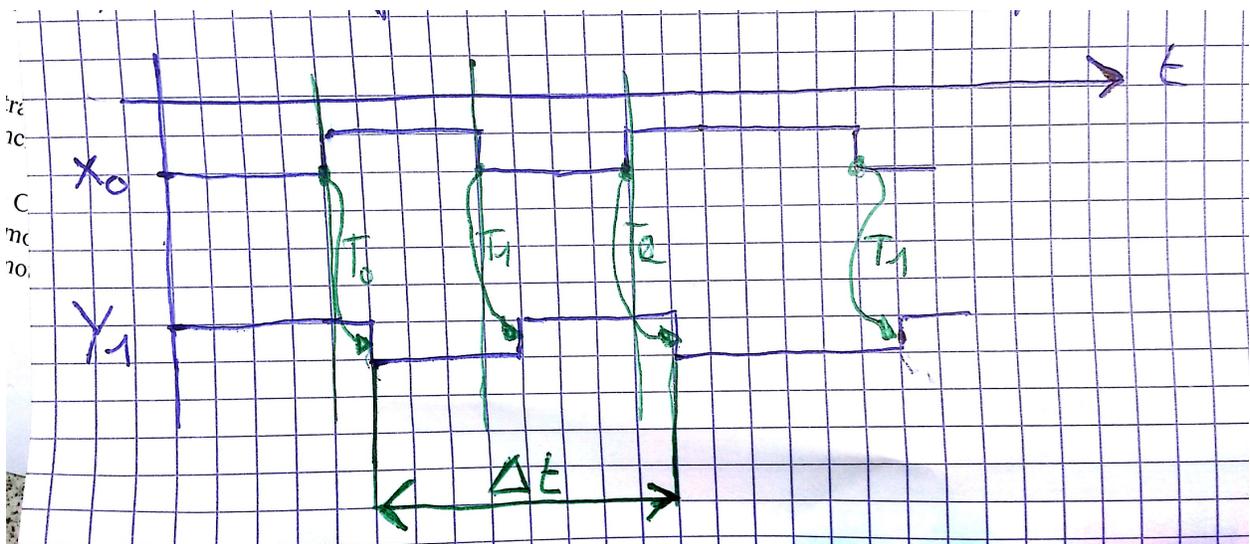
$t \in \mathbb{R} \rightarrow X(t) \in B$

$t \in \mathbb{R} \rightarrow Y(t) \in B$

$X \in \{\text{Fonction binaire du temps}\} \rightarrow Y \in \{\text{Fonction binaire du temps}\}$

$Y(t) = f[X(t)](t) \text{ NOT } X(t)$

Exemple : Fonction NOT



$$T_0 = T\left(\frac{Y}{X\uparrow}\right)$$

$$T_1 = T\left(\frac{Y}{X\downarrow}\right)$$

A, B, C \implies [] \implies Y, Z

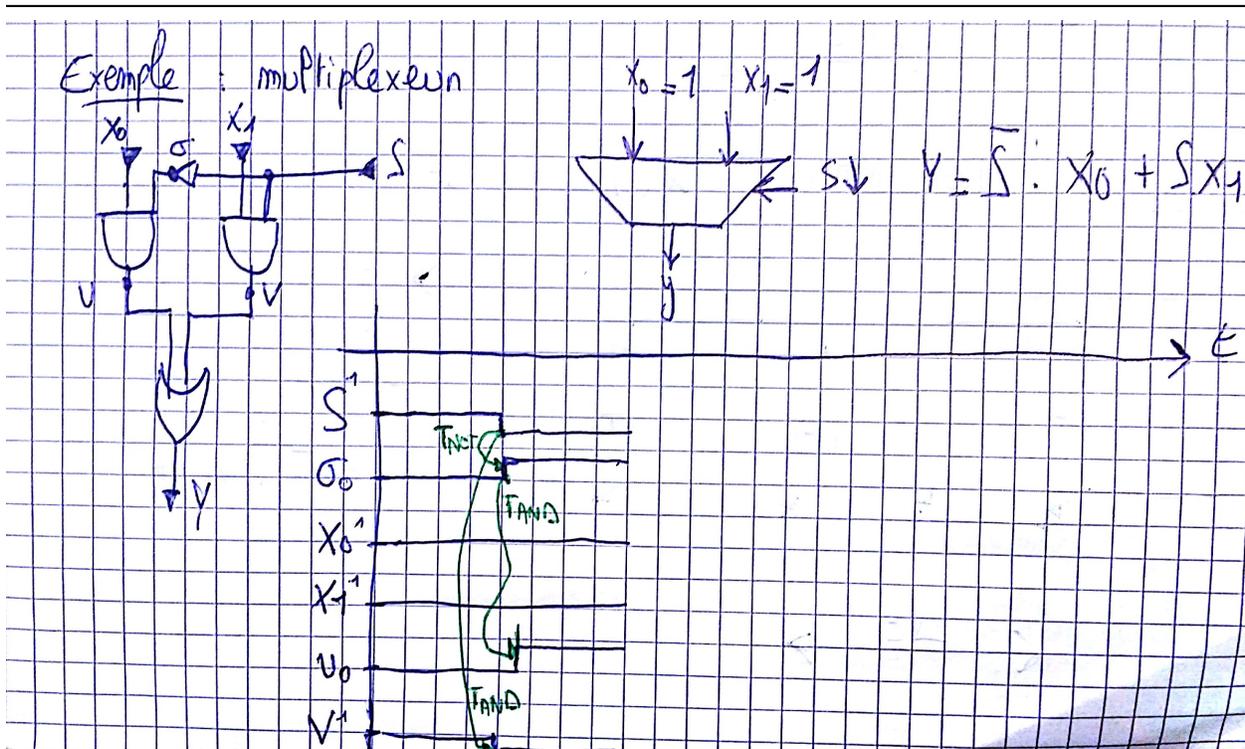
$$T_2 = T\left(\frac{Y}{A=0, B=1, C\uparrow}\right)$$

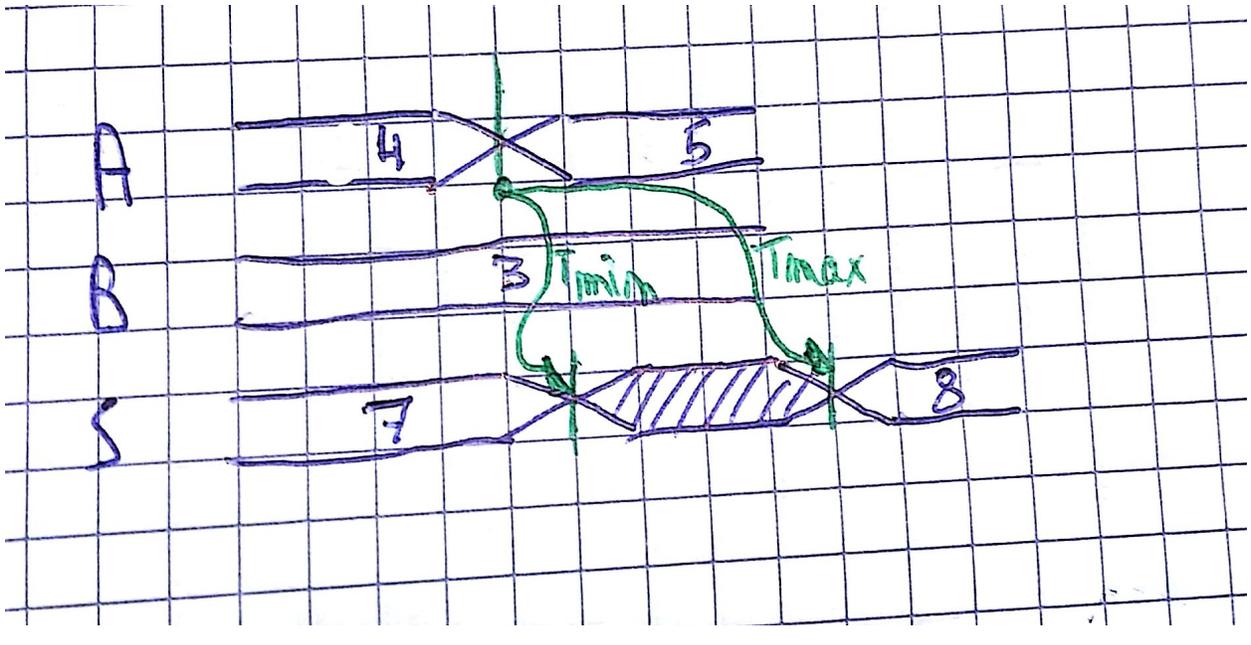
3 Systèmes composés

X \rightarrow [f] \rightarrow Y \rightarrow [g] \rightarrow Z

$$T\left(\frac{Z}{X}\right) = T\left(\frac{Z}{Y}\right) + T\left(\frac{Y}{X}\right)$$

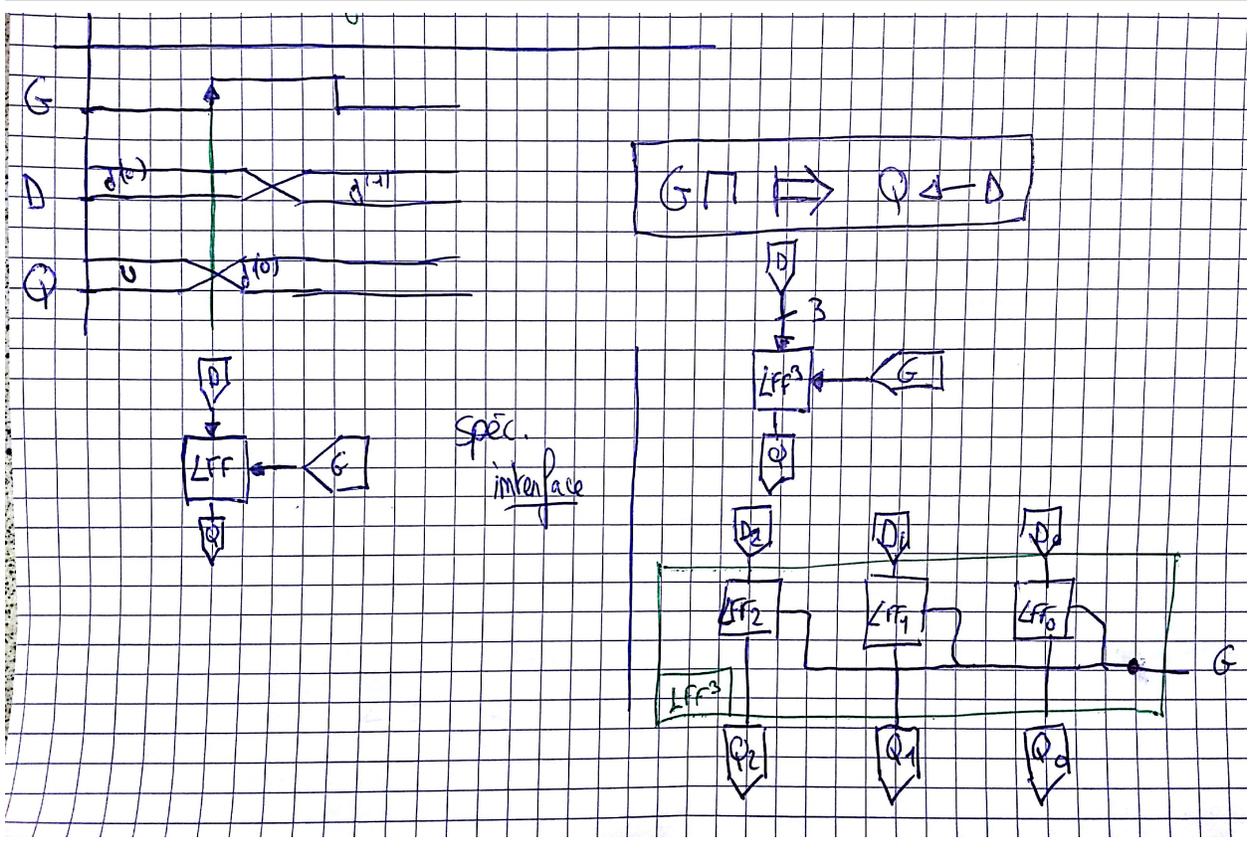
Exemple : Multiplexeur





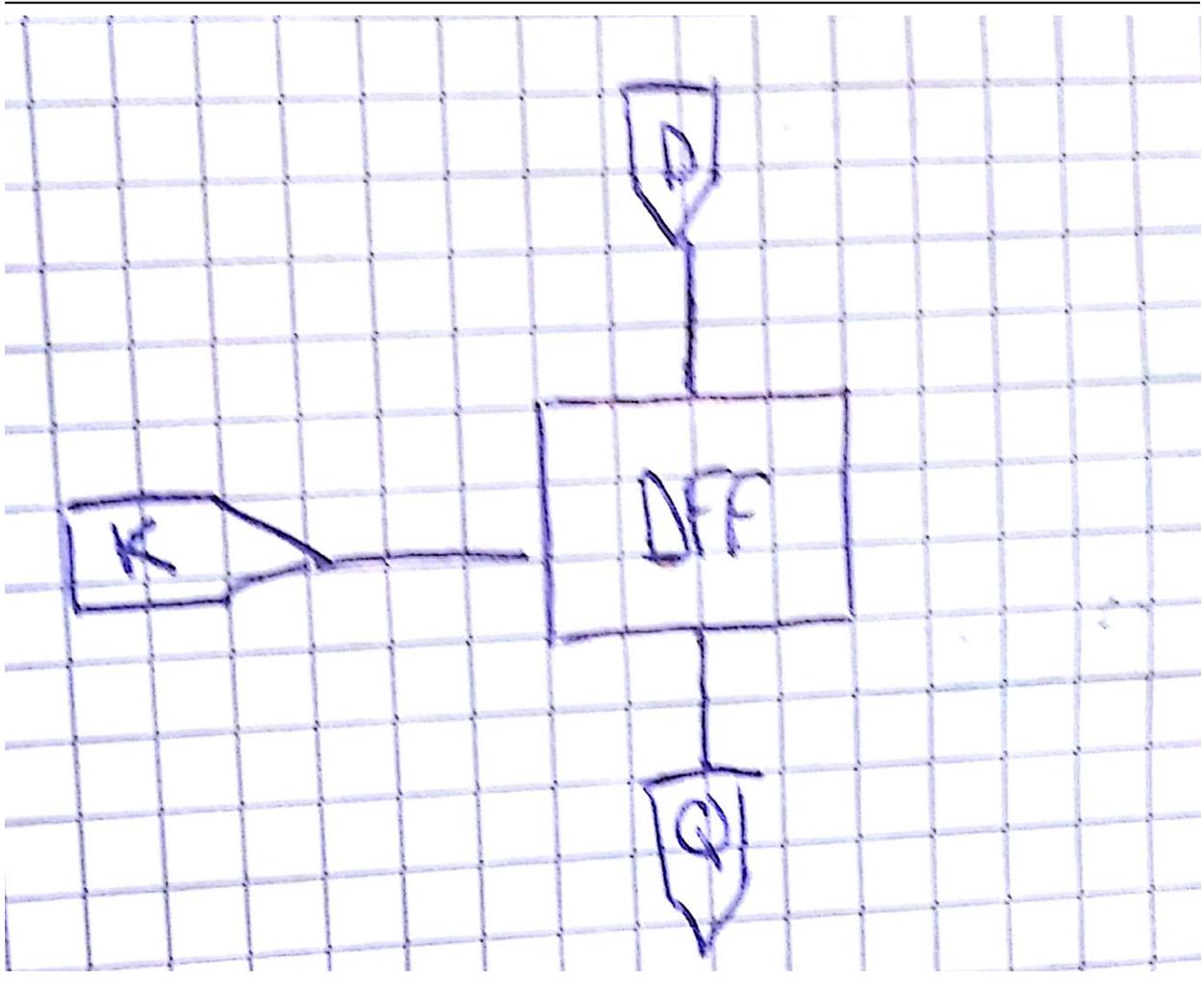
4 Opérateurs séquentiels asynchrones

4.1 Bascule Verrou



4.2 Bascule D

Spéc interface :



Spéc comportement :

$$K \uparrow \Rightarrow Q \leftarrow D$$

