

# État de l'art

## Algorithm 4: Assignment [Trama, 25]

- **Input:** Un chiffré de tableau  $[c_0], \dots, [c_{n-1}]$ , et de scalaires  $[idx]$  et  $[val]$

- For  $i$  in 0 to  $n - 1$  do

- $[b] \leftarrow Eval(f_{=i}, [idx])$

- $[select] \leftarrow KeySwitch([c_i], [val])$

0	1	2	3
$c_i$	$val$	0	0

- $[c_i] \leftarrow Eval([select], [b])$

$$f_{=i}(x) = \begin{cases} 1 & \text{si } x = i \\ 0 & \text{sinon} \end{cases}$$
$$f_{=2} = \begin{array}{cccc} & \mathbf{0} & \mathbf{1} & \mathbf{2} & \mathbf{3} \\ \begin{array}{|c|} \hline 0 \\ \hline \end{array} & \begin{array}{|c|} \hline 0 \\ \hline \end{array} & \begin{array}{|c|} \hline 1 \\ \hline \end{array} & \begin{array}{|c|} \hline 0 \\ \hline \end{array} \end{array}$$

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$$n \times 2(t_{BR} + t_{KS})$$