

Construire la tabla de parsing LALR(1) de:

$S \rightarrow CC$

$C \rightarrow cC$

$C \rightarrow d$

Construir la tabla de parsing LALR(1) de:

1) Agregar una nueva producción inicial que llegue al símbolo inicial.

2) Enumerar desde cero las reglas de la gramática.

$$(0) S' \rightarrow S$$

$$(1) S \rightarrow CC$$

$$(2) C \rightarrow cC$$

$$(3) C \rightarrow d$$

3) Construir el Autómata de Prefijos Viabiles basado en los items LR(1)

$[S' \rightarrow \cdot S, \$]$ I_0

$[S' \rightarrow \cdot S, \$]$ I_0

$A = S'$

$\alpha = \lambda$

$B = S$

$\beta = \lambda$

$a = \$$

$\text{FIRST}(\beta a) = \text{FIRST}(\lambda \$) = \{\$\}$

$[S' \rightarrow \cdot S, \$]$
 $[S \rightarrow \cdot CC, \$]$ I_0

$A = S'$
 $\alpha = \lambda$
 $B = S$
 $\beta = \lambda$
 $a = \$$

$\text{FIRST}(\beta a) = \text{FIRST}(\lambda \$) = \{\$\}$

$[S' \rightarrow \cdot S, \$]$
 $[S \rightarrow \cdot CC, \$]$

I_0

$[S' \rightarrow \cdot S, \$]$ I_0
 $[S \rightarrow \cdot CC, \$]$

$A = C$
 $\alpha = \lambda$
 $B = C$
 $\beta = C$
 $a = \$$

$\text{FIRST}(\beta a) = \text{FIRST}(C\$) = \{c, d\}$

$[S' \rightarrow \cdot S, \$] \quad I_0$
 $[S \rightarrow \cdot CC, \$]$
 $[C \rightarrow \cdot cC, c/d]$
 $[C \rightarrow \cdot d, c/d]$

$A = C$

$\alpha = \lambda$

$B = C$

$\beta = C$

$a = \$$

$\text{FIRST}(\beta a) = \text{FIRST}(C\$) = \{c, d\}$

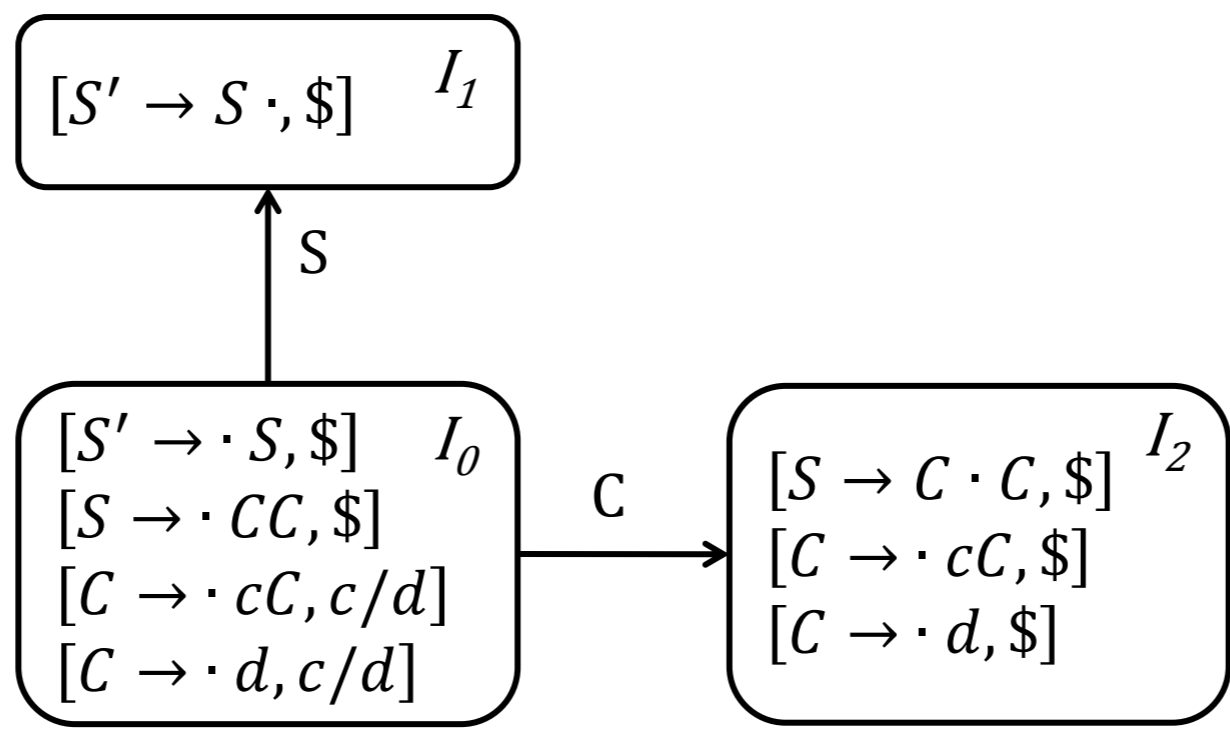
$[S' \rightarrow \cdot S, \$] \quad I_0$
 $[S \rightarrow \cdot CC, \$]$
 $[C \rightarrow \cdot cC, c/d]$
 $[C \rightarrow \cdot d, c/d]$

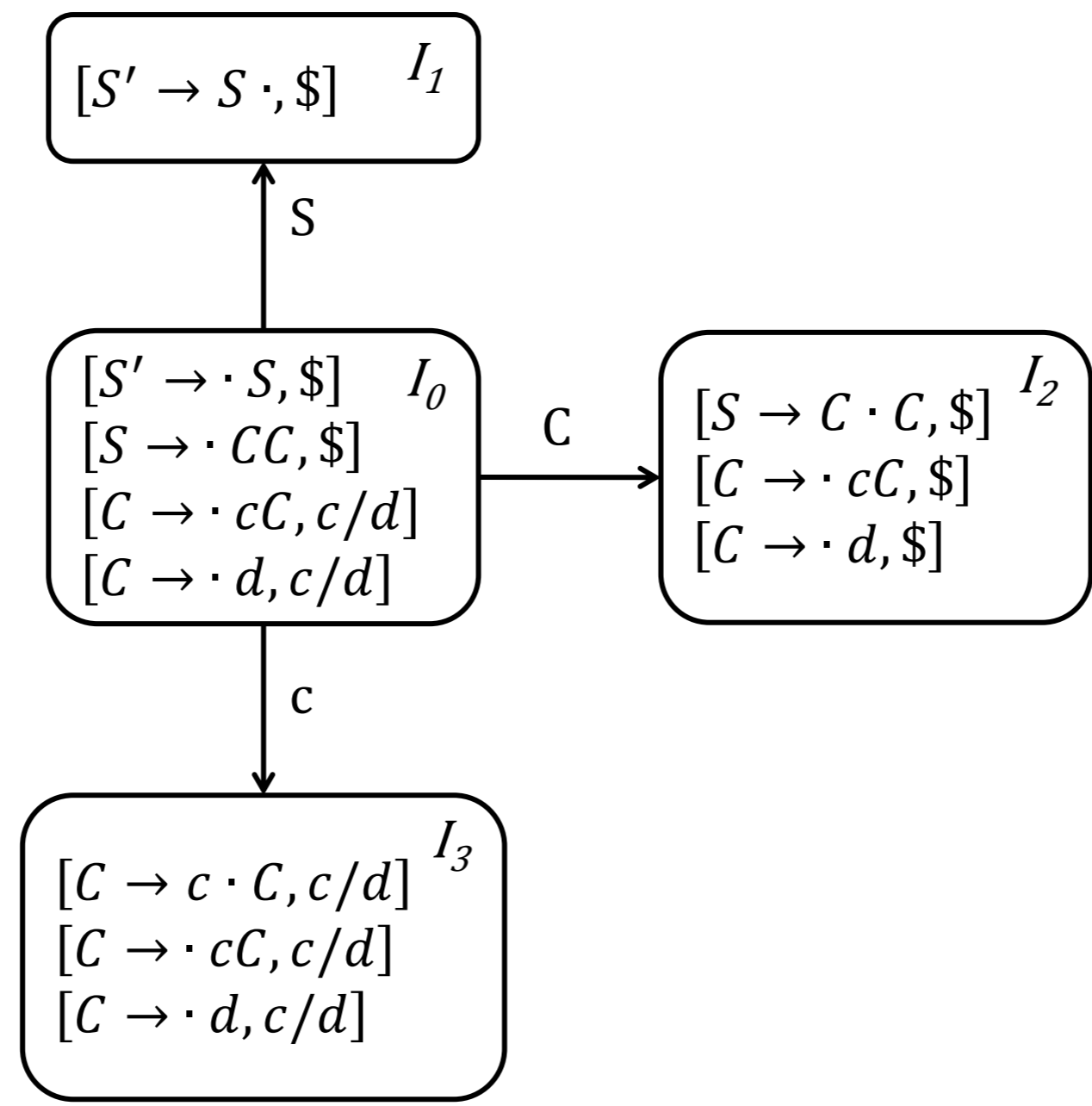
$[S' \rightarrow \cdot S, \$] \quad I_0$
 $[S \rightarrow \cdot CC, \$]$
 $[C \rightarrow \cdot cC, c/d]$
 $[C \rightarrow \cdot d, c/d]$

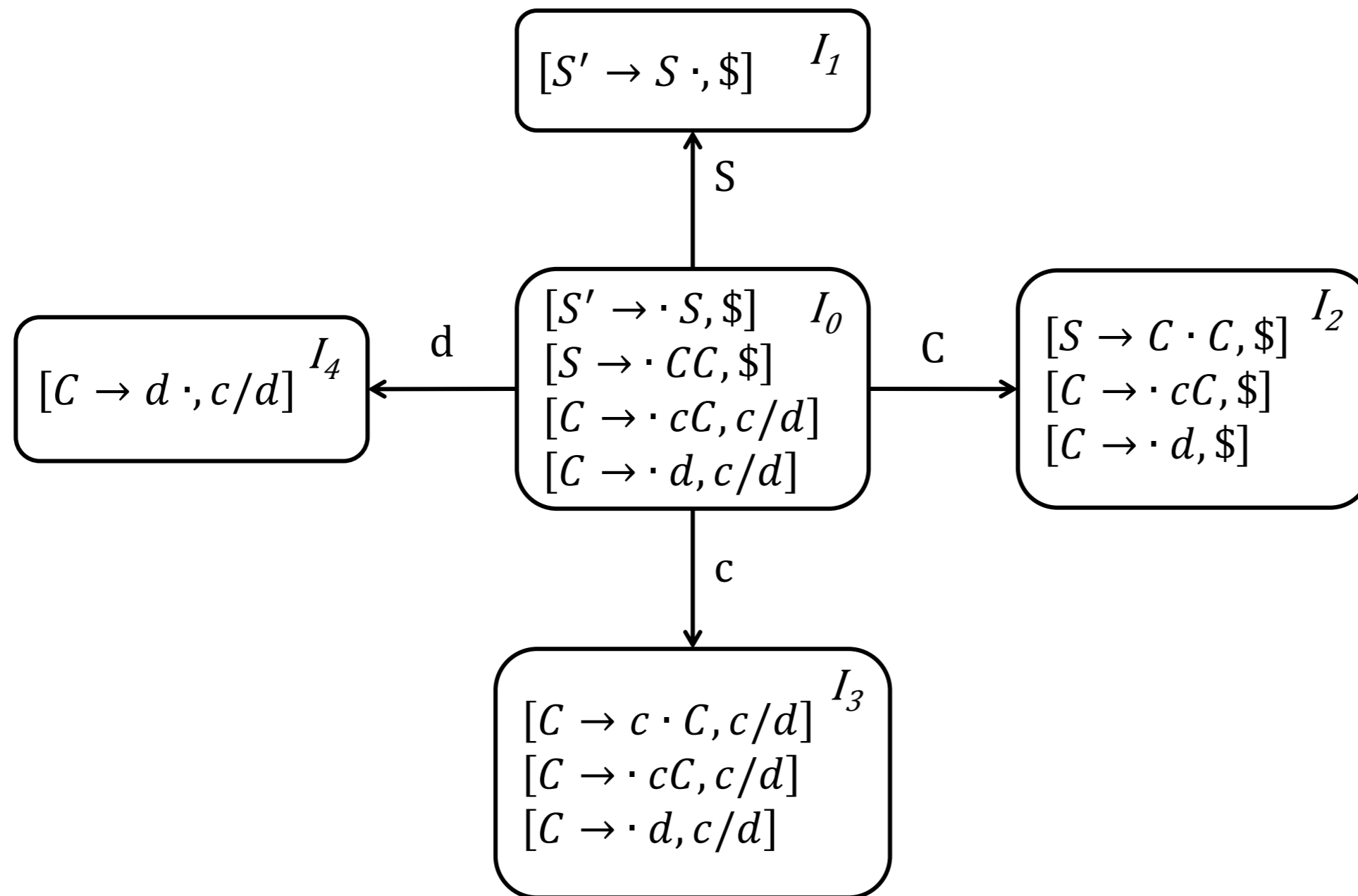
$[S' \rightarrow S \cdot, \$] \quad I_1$

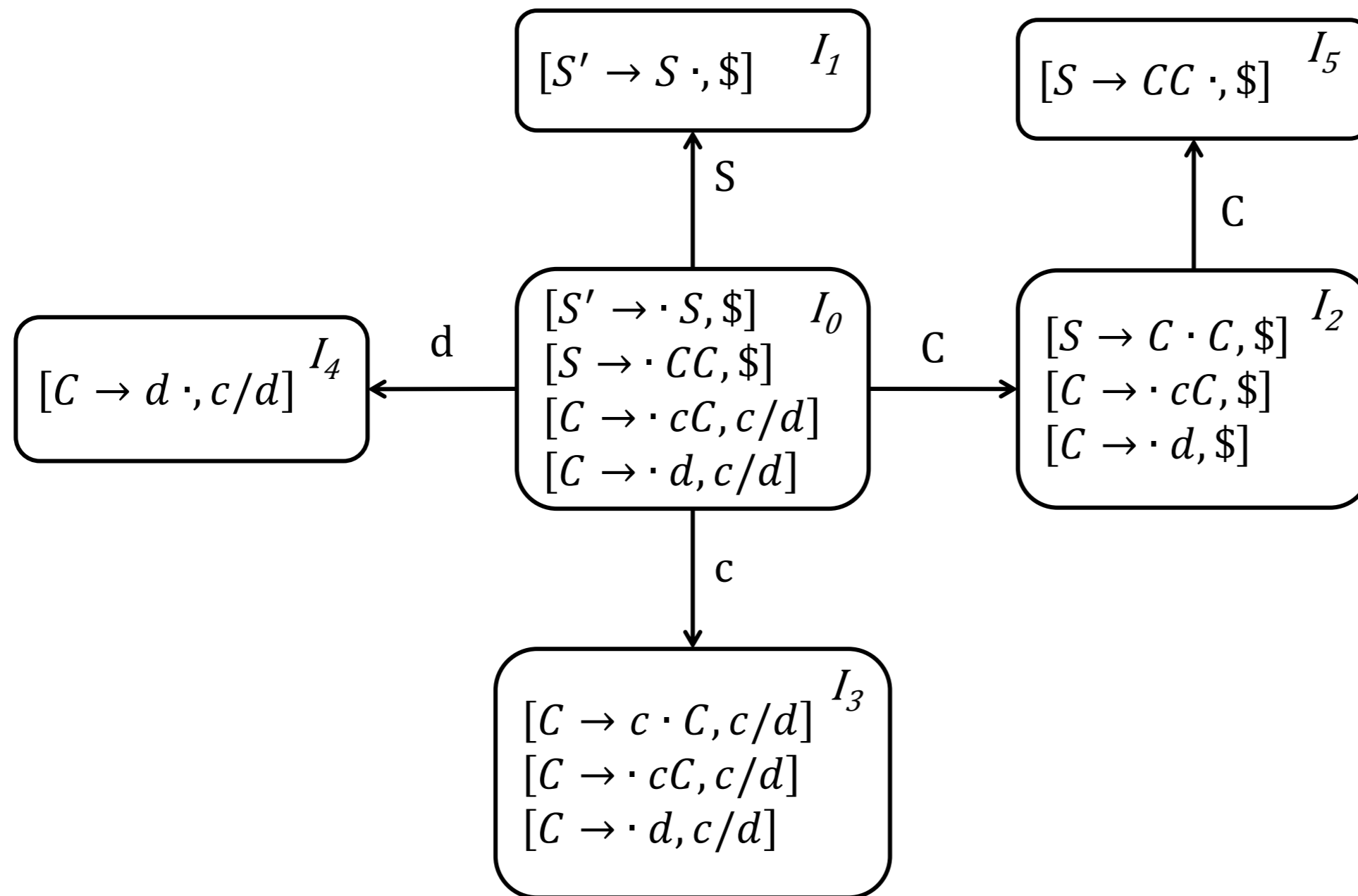


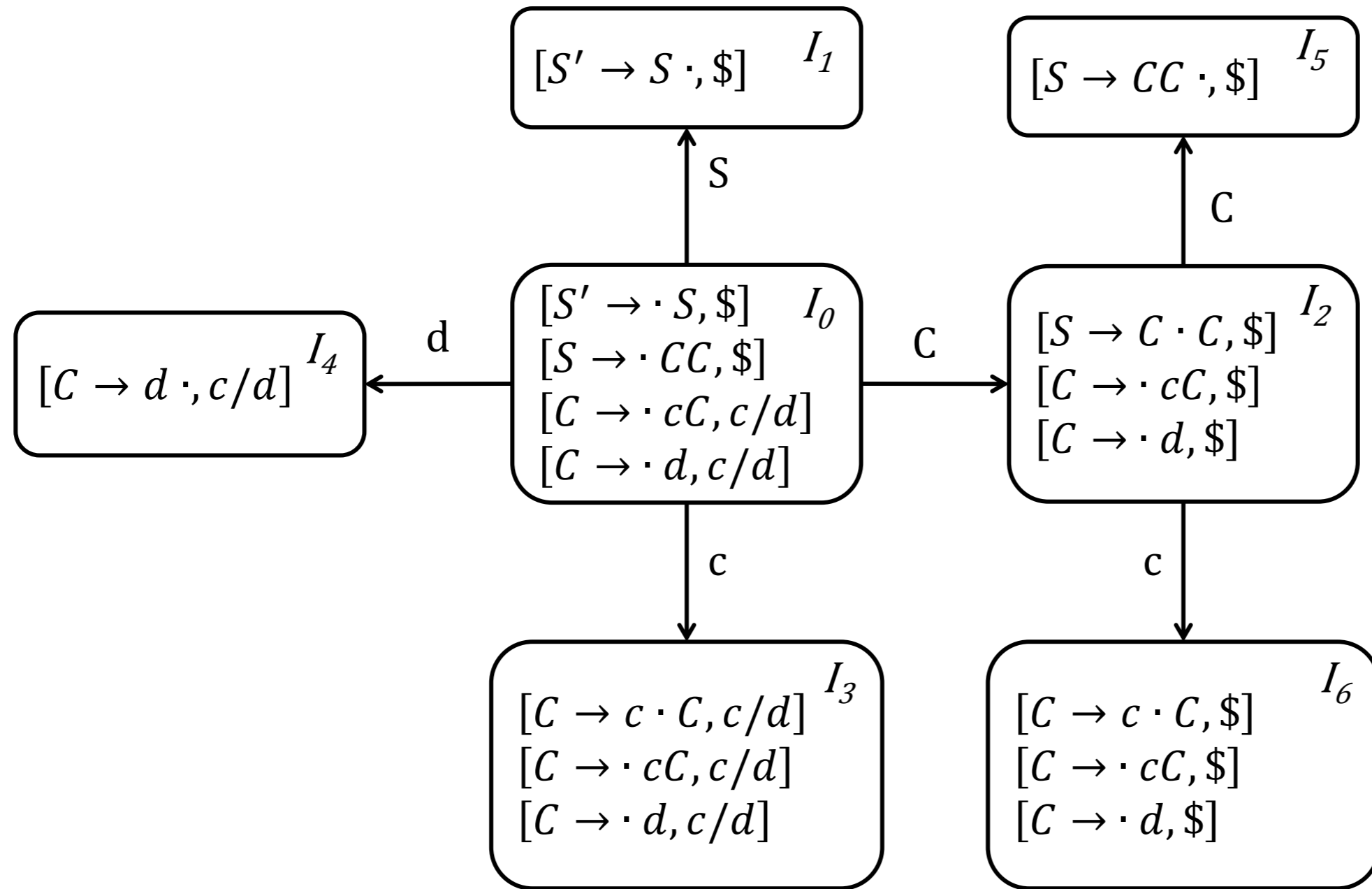
$[S' \rightarrow \cdot S, \$] \quad I_0$
 $[S \rightarrow \cdot CC, \$]$
 $[C \rightarrow \cdot cC, c/d]$
 $[C \rightarrow \cdot d, c/d]$

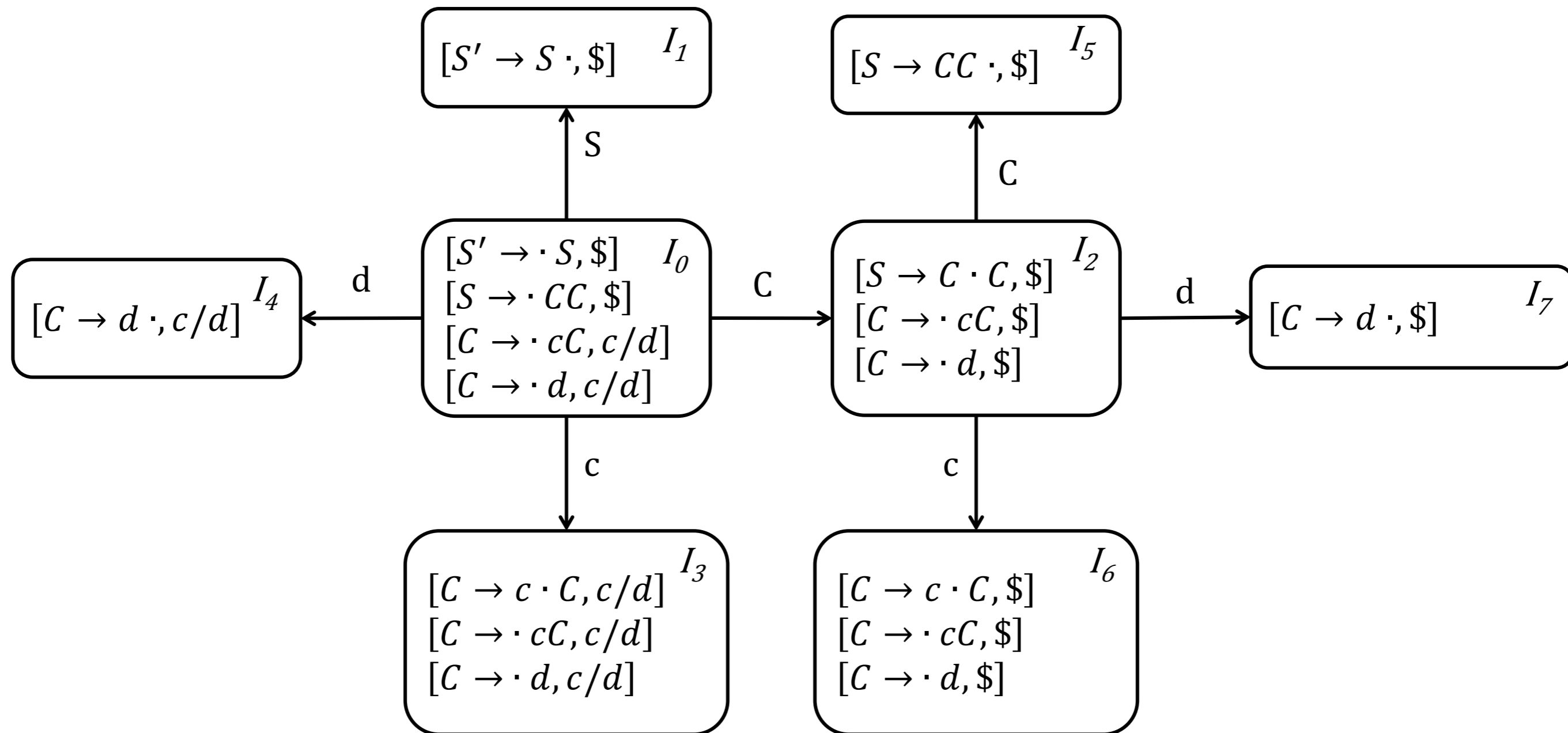


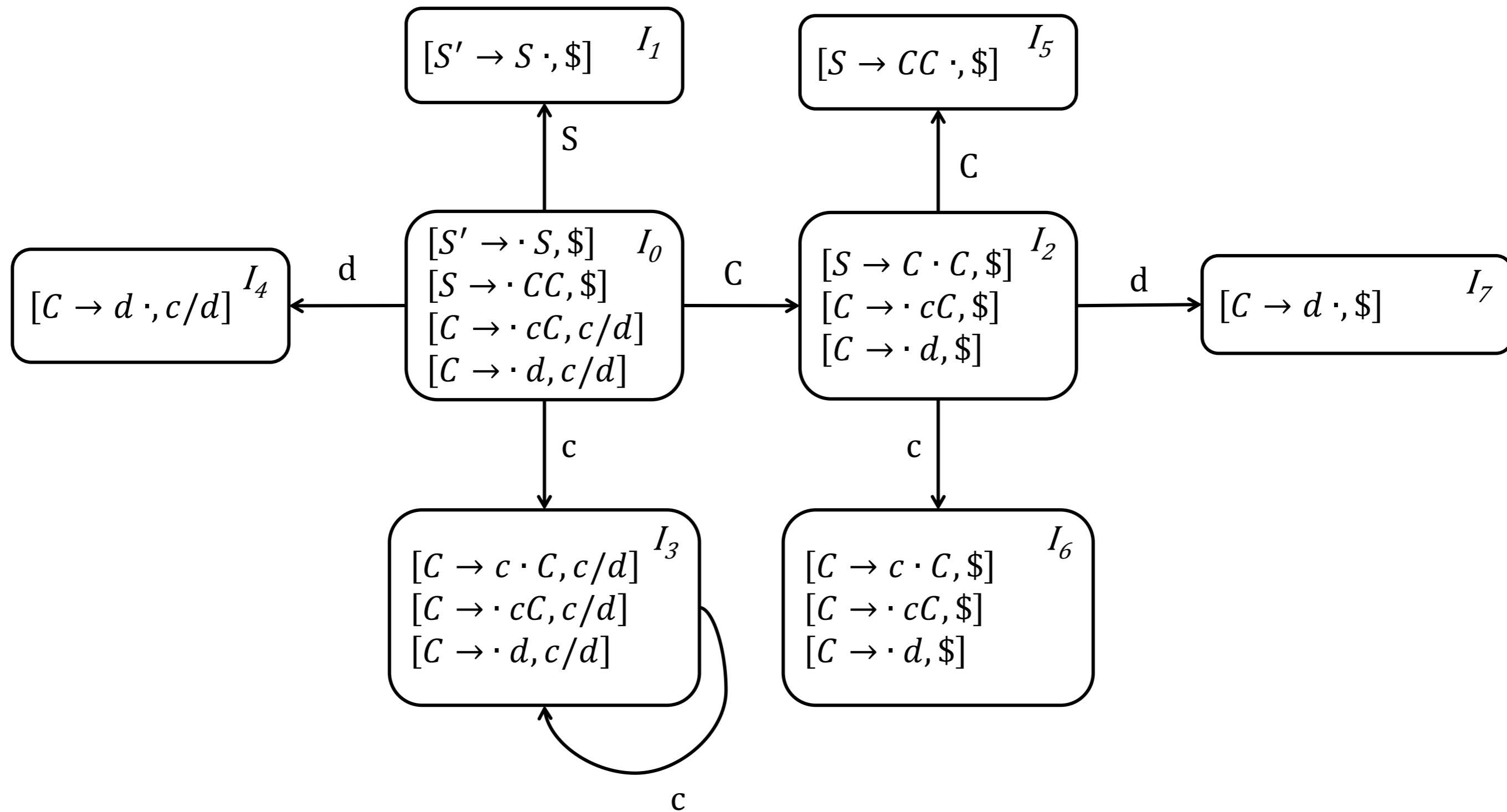


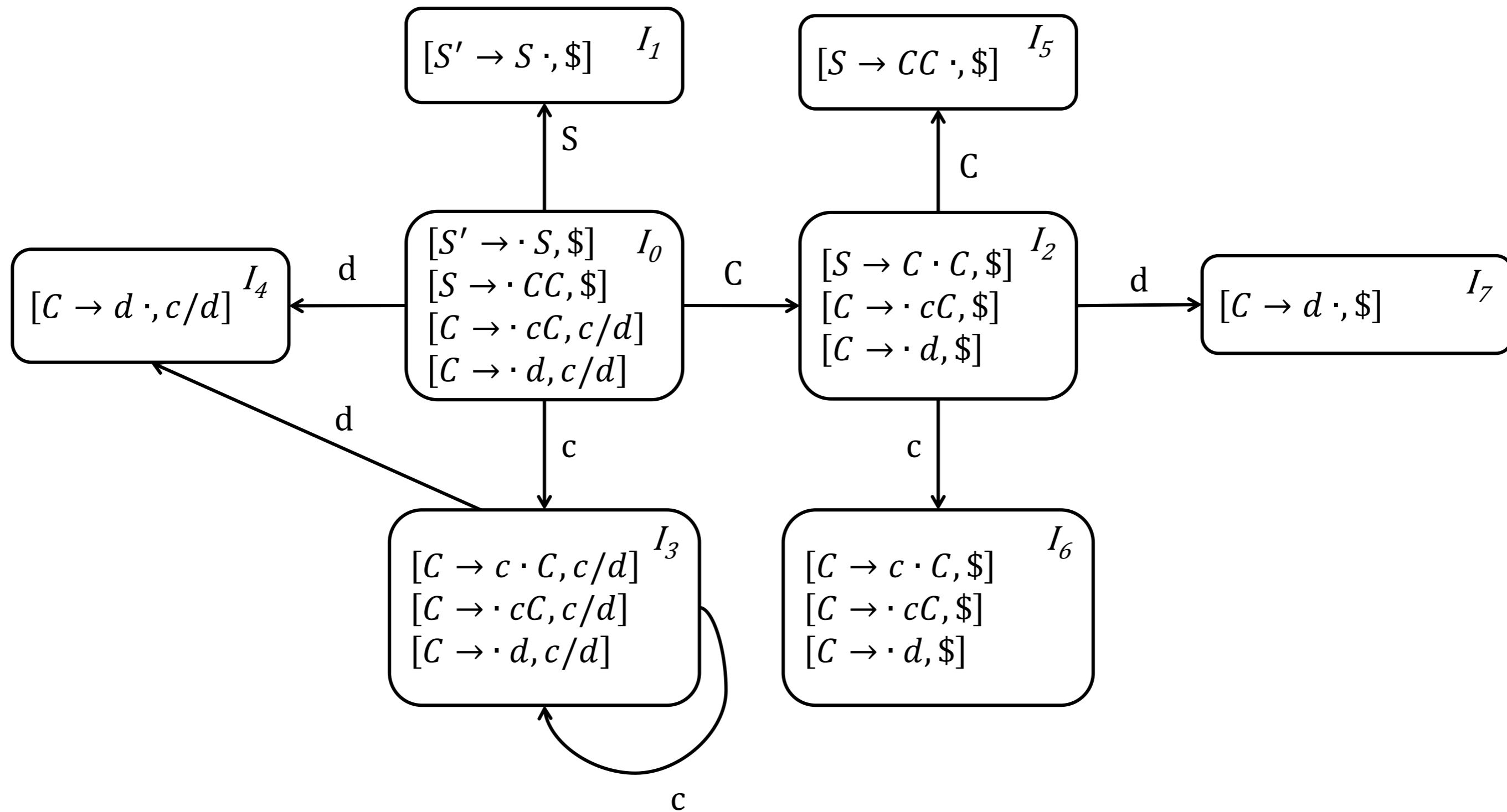


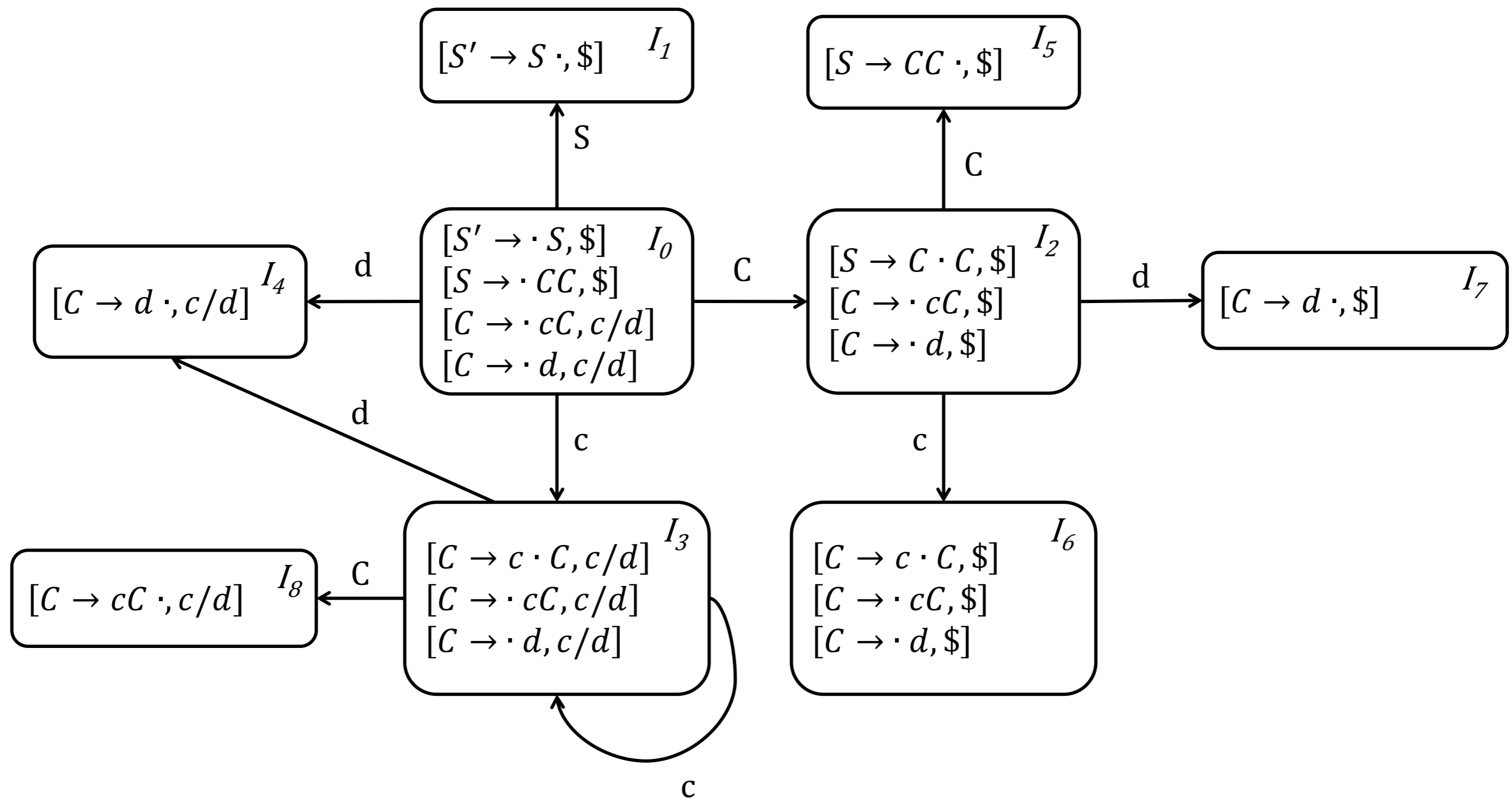


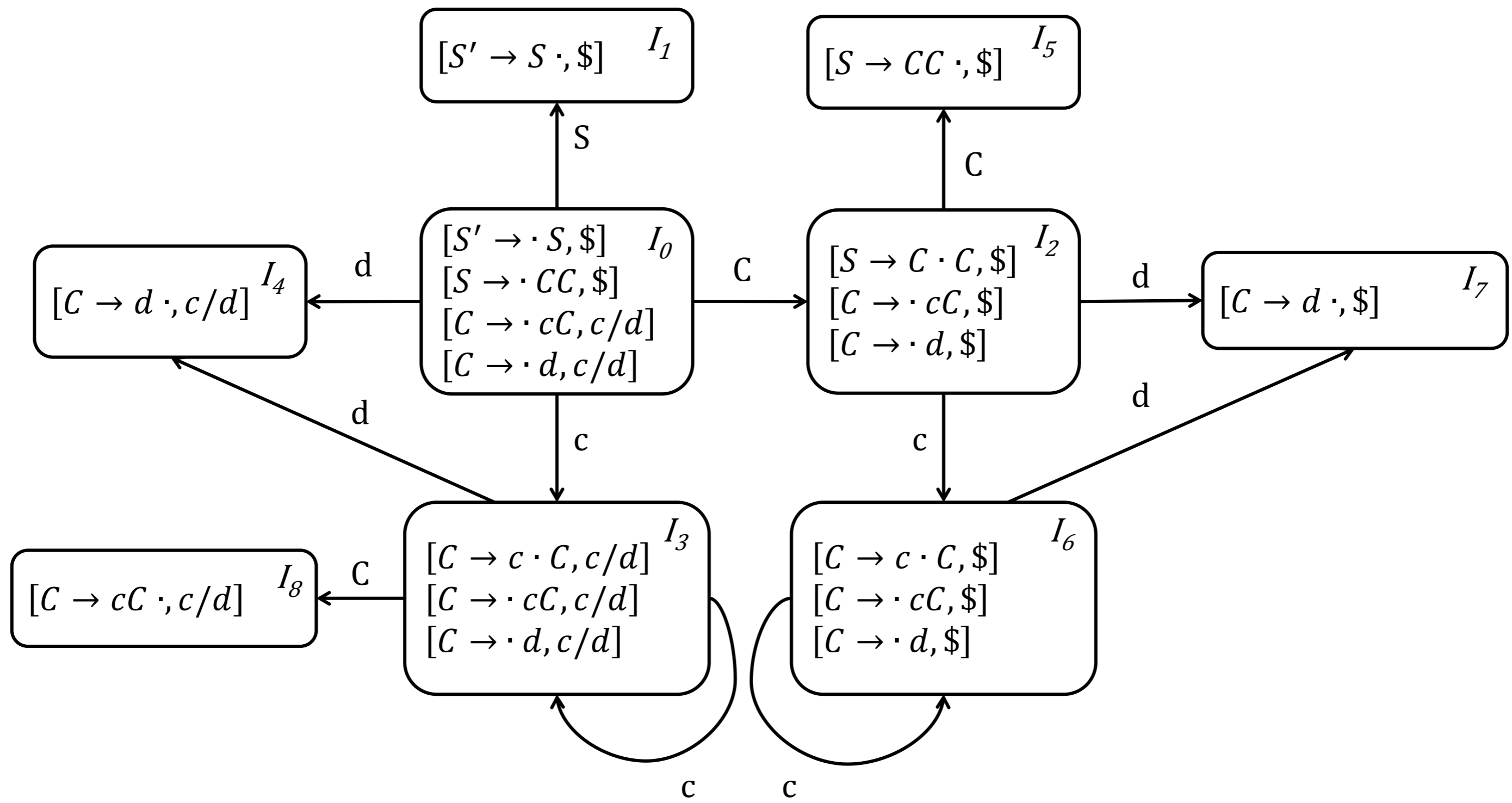


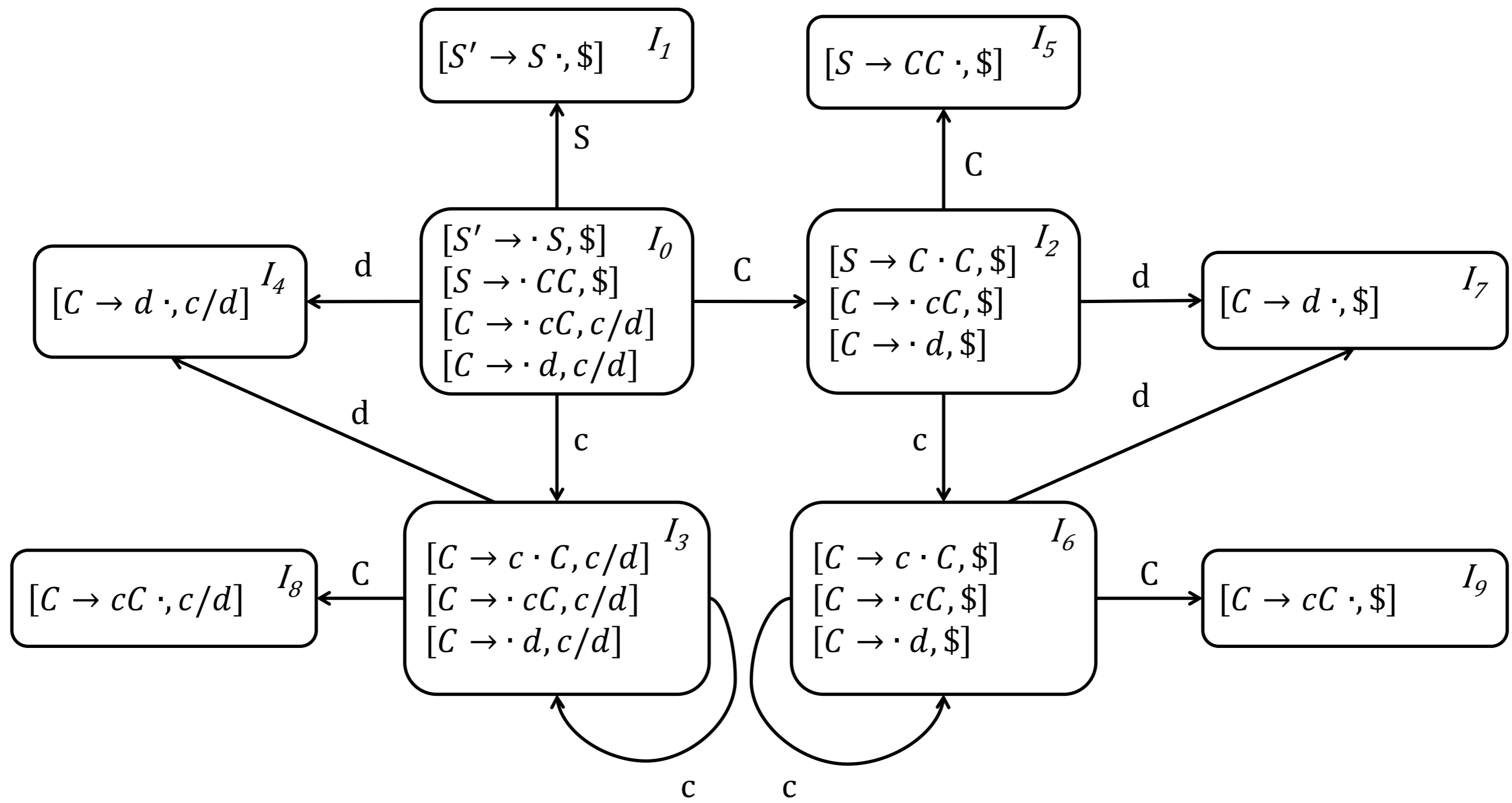












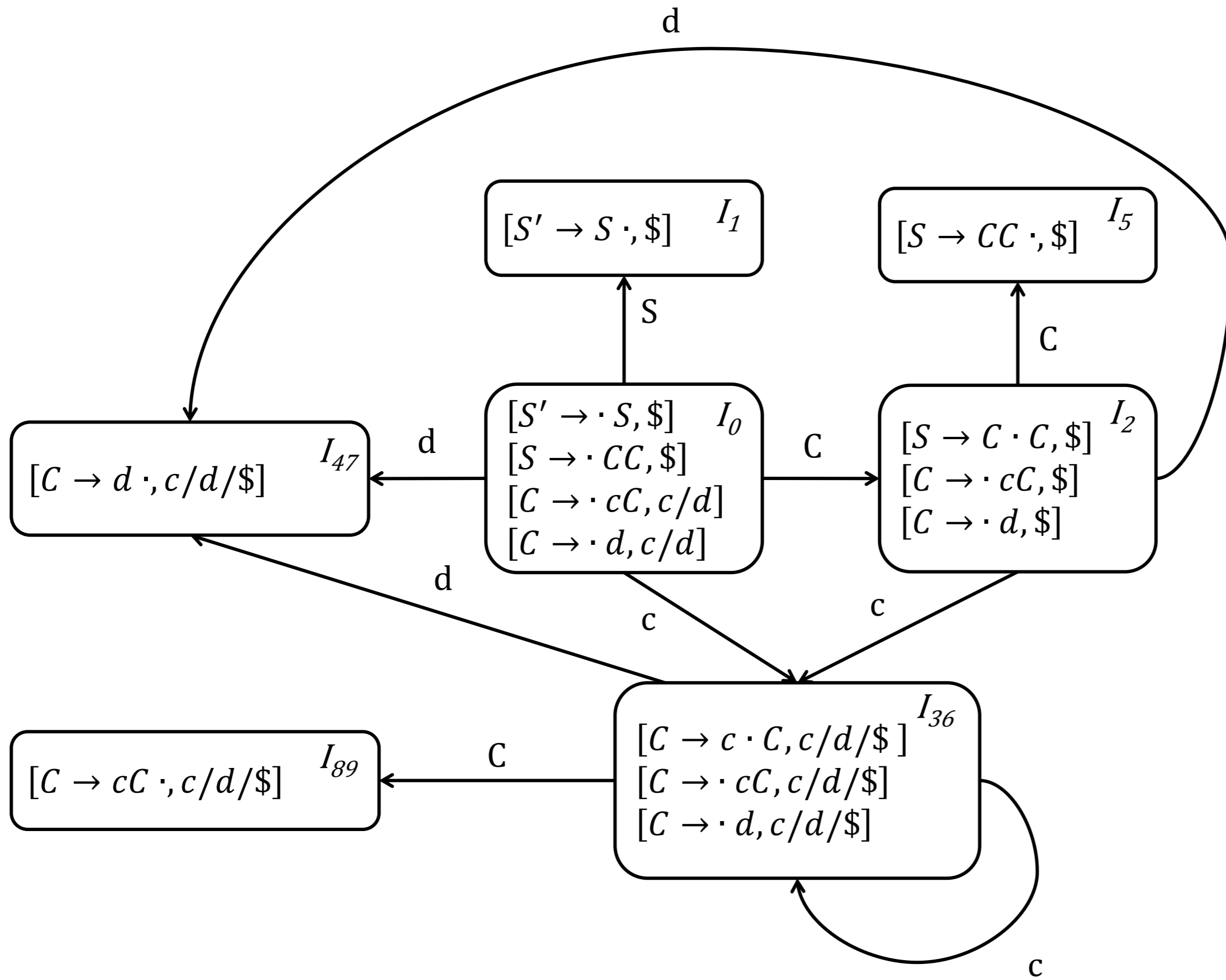


Tabla LALR(1)

	ACTION			GOTO	
	c	d	\$	S	C
I ₀	S36	S47		1	2
I ₁			ACEPTO		
I ₂	S36	S47			5
I ₃₆	S36	S47			89
I ₄₇	R3	R3	R3		
I ₅			R1		
I ₈₉	R2	R2	R2		