m	::=		Secret label
	$\mid$	$\mathcal{A}$	
	$\mid$	$\mathcal{B}$	
ℓ	::=		Label
	$\mid$	$\mathcal{P}$	
	$\mid$	m	
σ	::=		Base type
	$\mid$	uint^{ℓ}	
	$\mid$	bool^{ℓ}	
τ	::=		Type
	$\mid$	σ	
	$\mid$	$\sigma[\,]$	
c	::=		Constant
	$\mid$	n	
	$\mid$	$\top$	
	$\mid$	$\bot$	
e	::=		Source expression
	$\mid$	c	
	$\mid$	x	
	$\mid$	$e_1 + e_2$	
	$\mid$	$\mathbf{cond}(e, e_1, e_2)$	
	$\mid$	$e_1 > e_2$	
	$\mid$	$x[e]$	
s	::=		Source statement
	$\mid$	$\tau\, x$	
	$\mid$	$x := e$	
	$\mid$	$\mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ s$	
	$\mid$	$x[e_1] := e_2$	
	$\mid$	$\mathbf{if}(e, s_1, s_2)$	
	$\mid$	$\mathbf{out}\, e$	
	$\mid$	$s_1; s_2$	

Figure 1: Source language

$$
\begin{array}{lll}
v & ::= & \text{Source value} \\
 & \mid & c \\
 & \mid & [\,\overline{c_i}^{\,i}\,] \\
 & & \\
\rho & ::= & \text{Source runtime environment} \\
 & \mid & \cdot \\
 & \mid & \rho[x \mapsto v] \\
 & & \\
O & ::= & \text{Source observation} \\
 & \mid & \cdot \\
 & \mid & v \\
 & \mid & O_1, O_2
\end{array}
$$

Figure 2: Source runtime

$\boxed{\rho \vdash e \downarrow v}$

$$\frac{}{\rho \vdash c \downarrow c}\ \text{SE\_CONST}$$

$$\frac{}{\rho \vdash x \downarrow \rho[x]}\ \text{SE\_VAR}$$

$$\frac{\rho \vdash e_i \downarrow n_i}{\rho \vdash e_1 + e_2 \downarrow n_1 + n_2}\ \text{SE\_ADD}$$

$$\frac{\rho \vdash e \downarrow \top \quad \rho \vdash e_1 \downarrow v}{\rho \vdash \mathbf{cond}(e, e_1, e_2) \downarrow v}\ \text{SE\_CONDT}$$

$$\frac{\rho \vdash e \downarrow \bot \quad \rho \vdash e_2 \downarrow v}{\rho \vdash \mathbf{cond}(e, e_1, e_2) \downarrow v}\ \text{SE\_CONDF}$$

$$\frac{\rho \vdash e_i \downarrow n_i}{\rho \vdash e_1 > e_2 \downarrow n_1 > n_2}\ \text{SE\_GT}$$

$$\frac{\rho \vdash e \downarrow n \quad \rho \vdash x \downarrow [\,\overline{c_i}^{\,i}\,]}{\rho \vdash x[e] \downarrow c_n}\ \text{SE\_AREAD}$$

Figure 3: Source expression evaluation

$\boxed{\rho \vdash s \longrightarrow \rho'; O}$

$$\frac{\mathsf{default}(\tau) = v}{\rho \vdash \tau\, x \longrightarrow \rho[x \mapsto v]; \cdot} \quad \text{SC\_DECL}$$

$$\frac{\rho \vdash e \downarrow v}{\rho \vdash x := e \longrightarrow \rho[x \mapsto v]; \cdot} \quad \text{SC\_ASSGN}$$

$$\frac{n_1 > n_2}{\rho \vdash \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ s \longrightarrow \rho; \cdot} \quad \text{SC\_FORT}$$

$$\frac{\begin{array}{l} n_2 \geq n_1 \\ \rho[x \mapsto n_1] \vdash s \longrightarrow \rho_1; O_1 \\ \rho_1 \vdash \mathbf{for}(x := n_1 + 1; x \leq n_2; x := x + 1)\ s \longrightarrow \rho_2; O_2 \end{array}}{\rho \vdash \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ s \longrightarrow \rho_2; O_1, O_2} \quad \text{SC\_FORI}$$

$$\frac{\begin{array}{c} \rho \vdash x \downarrow [\,\overline{c_i}^{\,i}\,] \\ \rho \vdash e_1 \downarrow n \\ \rho \vdash e_2 \downarrow c \end{array}}{\rho \vdash x[e_1] := e_2 \longrightarrow \rho[x \mapsto [\,\overline{c_i}^{\,i}\,][n \mapsto c]]; O_1, O_2} \quad \text{SC\_AWRITE}$$

$$\frac{\begin{array}{c} \rho \vdash e \downarrow \top \\ \rho \vdash s_1 \longrightarrow \rho'; O \end{array}}{\rho \vdash \mathbf{if}(e, s_1, s_2) \longrightarrow \rho'; O} \quad \text{SC\_IFT}$$

$$\frac{\begin{array}{c} \rho \vdash e \downarrow \bot \\ \rho \vdash s_2 \longrightarrow \rho'; O \end{array}}{\rho \vdash \mathbf{if}(e, s_1, s_2) \longrightarrow \rho'; O} \quad \text{SC\_IFF}$$

$$\frac{\rho \vdash e \downarrow v}{\rho \vdash \mathbf{out}\, e \longrightarrow \rho; v} \quad \text{SC\_OUT}$$

$$\frac{\begin{array}{c} \rho \vdash s_1 \longrightarrow \rho_1; O_1 \\ \rho_1 \vdash s_2 \longrightarrow \rho_2; O_2 \end{array}}{\rho \vdash s_1; s_2 \longrightarrow \rho_2; O_1, O_2} \quad \text{SC\_SEQ}$$

Figure 4: Source command evaluation

$$
\begin{array}{lll}
\widetilde{e} & ::= & \text{Target expression} \\
& \mid & c \\
& \mid & x \\
& \mid & \widetilde{e}_1 +_\ell \widetilde{e}_2 \\
& \mid & \widetilde{e}_1 \times_\ell \widetilde{e}_2 \\
& \mid & \mathbf{cond}_\ell(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2) \\
& \mid & \widetilde{e}_1 >_\ell \widetilde{e}_2 \\
& \mid & x[\widetilde{e}] \\
& \mid & \widetilde{e} \rhd m \\
\\
\widetilde{s} & ::= & \text{Target statement} \\
& \mid & \tau\, x \\
& \mid & x := \widetilde{e} \\
& \mid & \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ \widetilde{s} \\
& \mid & x[\widetilde{e}_1] := \widetilde{e}_2 \\
& \mid & \mathbf{if}(\widetilde{e}, \widetilde{s}_1, \widetilde{s}_2) \\
& \mid & \mathbf{out}\, \widetilde{e} \\
& \mid & \widetilde{s}_1; \widetilde{s}_2 \\
\Gamma & ::= & \text{Type environment} \\
& \mid & \cdot \\
& \mid & \Gamma, x : \tau
\end{array}
$$

Figure 5: Target language

$\boxed{\Gamma \vdash e : \tau \rightsquigarrow \widetilde{e}}$

$$\frac{}{\Gamma \vdash n : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow n} \text{ S\_CONST}$$

$$\frac{}{\Gamma \vdash \top : \mathsf{bool}^{\mathcal{P}} \rightsquigarrow \top} \text{ S\_TRUE}$$

$$\frac{}{\Gamma \vdash \bot : \mathsf{bool}^{\mathcal{P}} \rightsquigarrow \bot} \text{ S\_FALSE}$$

$$\frac{\Gamma(x) = \tau}{\Gamma \vdash x : \tau \rightsquigarrow x} \text{ S\_VAR}$$

$$\frac{\Gamma \vdash e_i : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow \widetilde{e}_i}{\Gamma \vdash e_1 + e_2 : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow \widetilde{e}_1 +_{\mathcal{P}} \widetilde{e}_2} \text{ S\_PADD}$$

$$\frac{\Gamma \vdash e_i : \mathsf{uint}^{\mathcal{A}} \rightsquigarrow \widetilde{e}_i}{\Gamma \vdash e_1 + e_2 : \mathsf{uint}^{\mathcal{A}} \rightsquigarrow \widetilde{e}_1 +_{\mathcal{A}} \widetilde{e}_2} \text{ S\_SADD}$$

$$\frac{\begin{array}{c}\Gamma \vdash e : \mathsf{bool}^{\mathcal{P}} \rightsquigarrow \widetilde{e} \\ \Gamma \vdash e_i : \sigma \rightsquigarrow \widetilde{e}_i\end{array}}{\Gamma \vdash \mathbf{cond}(e, e_1, e_2) : \sigma \rightsquigarrow \mathbf{cond}_{\mathcal{P}}(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2)} \text{ S\_PCOND}$$

$$\frac{\begin{array}{c}\Gamma \vdash e : \mathsf{bool}^{\mathcal{B}} \rightsquigarrow \widetilde{e} \\ \Gamma \vdash e_i : \sigma \rightsquigarrow \widetilde{e}_i\end{array}}{\Gamma \vdash \mathbf{cond}(e, e_1, e_2) : \sigma \rightsquigarrow \mathbf{cond}_{\mathcal{B}}(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2)} \text{ S\_SCOND}$$

$$\frac{\Gamma \vdash e_i : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow \widetilde{e}_i}{\Gamma \vdash e_1 > e_2 : \mathsf{bool}^{\mathcal{P}} \rightsquigarrow \widetilde{e}_1 >_{\mathcal{P}} \widetilde{e}_2} \text{ S\_PGT}$$

$$\frac{\Gamma \vdash e_i : \mathsf{uint}^{\mathcal{B}} \rightsquigarrow \widetilde{e}_i}{\Gamma \vdash e_1 > e_2 : \mathsf{bool}^{\mathcal{B}} \rightsquigarrow \widetilde{e}_1 >_{\mathcal{B}} \widetilde{e}_2} \text{ S\_SGT}$$

$$\frac{\begin{array}{c}\Gamma \vdash x : \sigma[\,] \rightsquigarrow x \\ \Gamma \vdash e : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow \widetilde{e}\end{array}}{\Gamma \vdash x[e] : \sigma \rightsquigarrow x[\widetilde{e}]} \text{ S\_AREAD}$$

$$\frac{\begin{array}{c}\Gamma \vdash e : \sigma_1 \rightsquigarrow \widetilde{e} \\ \mathsf{base}(\sigma_1) = \mathsf{base}(\sigma_2) \\ \mathsf{label}(\sigma_2) = m\end{array}}{\Gamma \vdash e : \sigma_2 \rightsquigarrow \widetilde{e} \rhd m} \text{ S\_SUB}$$

Figure 6: Expression compilation

$\boxed{\Gamma \vdash s \rightsquigarrow \widetilde{s} \mid \Gamma'}$

$$\frac{}{\Gamma \vdash \tau\, x \rightsquigarrow \tau\, x \mid \Gamma, x : \tau} \quad \text{C\_DECL}$$

$$\frac{\begin{array}{c}\Gamma(x) = \sigma \\ \Gamma \vdash e : \sigma \rightsquigarrow \widetilde{e}\end{array}}{\Gamma \vdash x := e \rightsquigarrow x := \widetilde{e} \mid \Gamma} \quad \text{C\_VASSGN}$$

$$\frac{\begin{array}{c}\Gamma, x : \mathsf{uint}^{\mathcal{P}} \vdash s \rightsquigarrow \widetilde{s} \mid \_ \\ x \notin \mathsf{modifies}(s)\end{array}}{\Gamma \vdash \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ s \rightsquigarrow \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ \widetilde{s} \mid \Gamma} \quad \text{C\_FOR}$$

$$\frac{\begin{array}{c}\Gamma \vdash x : \sigma[\,] \rightsquigarrow x \\ \Gamma \vdash e_1 : \mathsf{uint}^{\mathcal{P}} \rightsquigarrow \widetilde{e}_1 \\ \Gamma \vdash e_2 : \sigma \rightsquigarrow \widetilde{e}_2\end{array}}{\Gamma \vdash x[e_1] := e_2 \rightsquigarrow x[\widetilde{e}_1] := \widetilde{e}_2 \mid \Gamma} \quad \text{C\_AWRITE}$$

$$\frac{\begin{array}{c}\Gamma \vdash e : \mathsf{bool}^{\mathcal{P}} \rightsquigarrow \widetilde{e} \\ \Gamma \vdash s_i \rightsquigarrow \widetilde{s}_i \mid \_\end{array}}{\Gamma \vdash \mathbf{if}(e, s_1, s_2) \rightsquigarrow \mathbf{if}(\widetilde{e}, \widetilde{s}_1, \widetilde{s}_2) \mid \Gamma} \quad \text{C\_IF}$$

$$\frac{\begin{array}{c}\Gamma \vdash e : \sigma \rightsquigarrow \widetilde{e} \\ \mathsf{label}(\sigma) = m\end{array}}{\Gamma \vdash \mathbf{out}\, e \rightsquigarrow \mathbf{out}\, \widetilde{e} \mid \Gamma} \quad \text{C\_OUT}$$

$$\frac{\begin{array}{c}\Gamma \vdash s_1 \rightsquigarrow \widetilde{s}_1 \mid \Gamma_1 \\ \Gamma_1 \vdash s_2 \rightsquigarrow \widetilde{s}_2 \mid \Gamma'\end{array}}{\Gamma \vdash s_1; s_2 \rightsquigarrow \widetilde{s}_1; \widetilde{s}_2 \mid \Gamma'} \quad \text{C\_SEQ}$$

Figure 7: Command compilation

r	::=		Wire id range
$\widetilde{w}$	::=		Compiled base value
	|	c	
	|	r	
$\widetilde{v}$	::=		Compiled value
	|	$\widetilde{w}$	
	|	$[\overline{\widetilde{w}_i}^{\,i}]$	
κ	::=		Circuit
	|	$\cdot$	
	|	$\oplus(r_1, r_2, r_3)$	
	|	$\otimes(r_1, r_2, r_3)$	
	|	$\mathsf{Mux}(r_1, r_2, r_3, r_4)$	
	|	$\mathsf{Gt}(r_1, r_2, r_3)$	
	|	$r_1 \rhd_m r_2$	
	|	$\mathsf{Out}(r)$	
	|	κ_1, κ_2	
$\widetilde{\rho}$	::=		Runtime environment
	|	$\cdot$	
	|	$\widetilde{\rho}[x \mapsto \widetilde{v}]$	

Figure 8: Target runtime

$\boxed{\widetilde{\rho} \vdash \widetilde{e} \Downarrow \widetilde{v}; \kappa}$

$$\frac{}{\widetilde{\rho} \vdash c \Downarrow c; \cdot} \quad \text{EE\_CONST}$$

$$\frac{}{\widetilde{\rho} \vdash x \Downarrow \widetilde{\rho}[x]; \cdot} \quad \text{EE\_VAR}$$

$$\frac{\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow n_i; \kappa_i}{\widetilde{\rho} \vdash \widetilde{e}_1 +_{\mathcal{P}} \widetilde{e}_2 \Downarrow n_1 + n_2; \kappa_1, \kappa_2} \quad \text{EE\_PADD}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow r_i; \kappa_i \\ r_3 = \mathsf{next\_range}()\end{array}}{\widetilde{\rho} \vdash \widetilde{e}_1 +_{\mathcal{A}} \widetilde{e}_2 \Downarrow r_3; \kappa_1, \kappa_2, \oplus(r_1, r_2, r_3)} \quad \text{EE\_SADD}$$

$$\frac{\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow n_i; \kappa_i}{\widetilde{\rho} \vdash \widetilde{e}_1 \times_{\mathcal{P}} \widetilde{e}_2 \Downarrow n_1 \times n_2; \kappa_1, \kappa_2} \quad \text{EE\_PMULT}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow r_i; \kappa_i \\ r_3 = \mathsf{next\_range}()\end{array}}{\widetilde{\rho} \vdash \widetilde{e}_1 \times_{\mathcal{A}} \widetilde{e}_2 \Downarrow r_3; \kappa_1, \kappa_2, \otimes(r_1, r_2, r_3)} \quad \text{EE\_SMULT}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e} \Downarrow \top; \kappa \\ \widetilde{\rho} \vdash \widetilde{e}_1 \Downarrow \widetilde{v}; \kappa_1\end{array}}{\widetilde{\rho} \vdash \mathbf{cond}_{\mathcal{P}}(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2) \Downarrow \widetilde{v}; \kappa, \kappa_1} \quad \text{EE\_PCONDT}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e} \Downarrow \bot; \kappa \\ \widetilde{\rho} \vdash \widetilde{e}_2 \Downarrow \widetilde{v}; \kappa_2\end{array}}{\widetilde{\rho} \vdash \mathbf{cond}_{\mathcal{P}}(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2) \Downarrow \widetilde{v}; \kappa, \kappa_2} \quad \text{EE\_PCONDF}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e} \Downarrow r; \kappa \\ \widetilde{\rho} \vdash \widetilde{e}_i \Downarrow r_i; \kappa_i \\ r_3 = \mathsf{next\_range}()\end{array}}{\widetilde{\rho} \vdash \mathbf{cond}_{\mathcal{B}}(\widetilde{e}, \widetilde{e}_1, \widetilde{e}_2) \Downarrow r_3; \kappa, \kappa_1, \kappa_2, \mathsf{Mux}(r, r_1, r_2, r_3)} \quad \text{EE\_SCOND}$$

$$\frac{\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow n_i; \kappa_i}{\widetilde{\rho} \vdash \widetilde{e}_1 >_{\mathcal{P}} \widetilde{e}_2 \Downarrow n_1 > n_2; \kappa_1, \kappa_2} \quad \text{EE\_PGT}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e}_i \Downarrow r_i; \kappa_i \\ r_3 = \mathsf{next\_range}()\end{array}}{\widetilde{\rho} \vdash \widetilde{e}_1 >_{\mathcal{B}} \widetilde{e}_2 \Downarrow r_3; \kappa_1, \kappa_2, \mathsf{Gt}(r_1, r_2, r_3)} \quad \text{EE\_SGT}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e} \Downarrow n; \kappa_1 \\ \widetilde{\rho} \vdash x \Downarrow [\overline{\widetilde{w}_i}^{\,i}]; \kappa_2\end{array}}{\widetilde{\rho} \vdash x[\widetilde{e}] \Downarrow \widetilde{w}_n; \kappa_1, \kappa_2} \quad \text{EE\_AREAD}$$

$$\frac{\begin{array}{c}\widetilde{\rho} \vdash \widetilde{e} \Downarrow r; \kappa \\ r' = \mathsf{next\_range}()\end{array}}{\widetilde{\rho} \vdash \widetilde{e} \rhd m \Downarrow r'; \kappa, r \rhd_m r'} \quad \text{EE\_COERCE}$$

Figure 9: Target expression evaluation

$\boxed{\widetilde{\rho} \vdash \widetilde{s} \Longrightarrow \widetilde{\rho}'; \kappa}$

$$\frac{\mathsf{default}(\tau) = \widetilde{v}; \kappa}{\widetilde{\rho} \vdash \tau\, x \Longrightarrow \widetilde{\rho}[x \mapsto \widetilde{v}]; \kappa} \quad \text{EC\_DECL}$$

$$\frac{\widetilde{\rho} \vdash \widetilde{e} \Downarrow \widetilde{v}; \kappa}{\widetilde{\rho} \vdash x := \widetilde{e} \Longrightarrow \widetilde{\rho}[x \mapsto \widetilde{v}]; \kappa} \quad \text{EC\_ASSGN}$$

$$\frac{n_1 > n_2}{\widetilde{\rho} \vdash \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ \widetilde{s} \Longrightarrow \widetilde{\rho}; \cdot} \quad \text{EC\_FORT}$$

$$\frac{\begin{array}{l} n_2 \geq n_1 \\ \widetilde{\rho}[x \mapsto n_1] \vdash \widetilde{s} \Longrightarrow \widetilde{\rho}_1; \kappa_1 \\ \widetilde{\rho}_1 \vdash \mathbf{for}(x := n_1 + 1; x \leq n_2; x := x + 1)\ \widetilde{s} \Longrightarrow \widetilde{\rho}_2; \kappa_2 \end{array}}{\widetilde{\rho} \vdash \mathbf{for}(x := n_1; x \leq n_2; x := x + 1)\ \widetilde{s} \Longrightarrow \widetilde{\rho}_2; \kappa_1, \kappa_2} \quad \text{EC\_FORI}$$

$$\frac{\begin{array}{c} \widetilde{\rho} \vdash x \Downarrow [\,\overline{\widetilde{w}_i}^{\,i}\,]; \cdot \\ \widetilde{\rho} \vdash \widetilde{e}_1 \Downarrow n; \kappa_1 \\ \widetilde{\rho} \vdash \widetilde{e}_2 \Downarrow \widetilde{w}; \kappa_2 \end{array}}{\widetilde{\rho} \vdash x[\widetilde{e}_1] := \widetilde{e}_2 \Longrightarrow \widetilde{\rho}[x \mapsto [\,\overline{\widetilde{w}_i}^{\,i}\,][n \mapsto \widetilde{w}]]; \kappa_1, \kappa_2} \quad \text{EC\_AWRITE}$$

$$\frac{\begin{array}{c} \widetilde{\rho} \vdash \widetilde{e} \Downarrow \top; \kappa_1 \\ \widetilde{\rho} \vdash \widetilde{s}_1 \Longrightarrow \widetilde{\rho}'; \kappa_2 \end{array}}{\widetilde{\rho} \vdash \mathbf{if}(\widetilde{e}, \widetilde{s}_1, \widetilde{s}_2) \Longrightarrow \widetilde{\rho}'; \kappa_1, \kappa_2} \quad \text{EC\_IFT}$$

$$\frac{\begin{array}{c} \widetilde{\rho} \vdash \widetilde{e} \Downarrow \bot; \kappa_1 \\ \widetilde{\rho} \vdash \widetilde{s}_2 \Longrightarrow \widetilde{\rho}'; \kappa_2 \end{array}}{\widetilde{\rho} \vdash \mathbf{if}(\widetilde{e}, \widetilde{s}_1, \widetilde{s}_2) \Longrightarrow \widetilde{\rho}'; \kappa_1, \kappa_2} \quad \text{EC\_IFF}$$

$$\frac{\widetilde{\rho} \vdash \widetilde{e} \Downarrow r; \kappa}{\widetilde{\rho} \vdash \mathbf{out}\, \widetilde{e} \Longrightarrow \widetilde{\rho}; \kappa, \mathsf{Out}(r)} \quad \text{EC\_OUT}$$

$$\frac{\begin{array}{c} \widetilde{\rho} \vdash \widetilde{s}_1 \Longrightarrow \widetilde{\rho}_1; \kappa_1 \\ \widetilde{\rho}_1 \vdash \widetilde{s}_2 \Longrightarrow \widetilde{\rho}_2; \kappa_2 \end{array}}{\widetilde{\rho} \vdash \widetilde{s}_1; \widetilde{s}_2 \Longrightarrow \widetilde{\rho}_2; \kappa_1, \kappa_2} \quad \text{EC\_SEQ}$$

Figure 10: Target command evaluation