Given guarded-exp:

if e_1 [] e_2 [] ... e_n [] ... fi, where each e_k is a guarded-exp, rewrites to:

$$(\mathbf{one}\; \{\mathcal{T}[\![(e_1]\!])\;|\!|\; (\mathcal{T}[\![e_2]\!])\;|\!|\; \dots |\!|\; (\mathcal{T}[\![e_n]\!])\;|\!|\; \mathbf{wrong}\}) \langle \rangle$$

where

$$\mathcal{T}[\![\exp]\!] = \lambda \langle \rangle. \exp$$
 (1)

$$\mathcal{T} \llbracket \exists \ \mathtt{x.guarded-exp} \rrbracket = \exists \ \mathtt{x.} \ \mathcal{T} \llbracket \mathtt{guarded-exp} \rrbracket \tag{2}$$

$$\mathcal{T}[\![\mathtt{x} = \mathtt{exp}; \ \mathtt{guarded-exp}]\!] = \mathtt{x} = \mathtt{exp}; \mathcal{T}[\![\mathtt{guarded-exp}]\!] \tag{3}$$

Let's build off of this to formalize our translations.