termvar, x	term variable		
index, i, j, k			
term, t	::=		term
	|	x	variable
form, *type*, A, B, C, T	::=		formula and type
	|	$\top$	true or the unit type
	|	$\bot$	false or the empty type
	|	$\Box A$	past necessity
	|	$\blacksquare A$	necessity
	|	$\Diamond A$	past possibility
	|	$\blacklozenge A$	possibility
	|	$A \wedge B$	conjunction
	|	$A \vee B$	disjunction
	|	$A \to B$	implication
Γ, Δ	::=		type context
	|	$\emptyset$	empty context
	|	A	formula el
	|	$x : T$	typed el
	|	Γ, Γ'	append

$\boxed{\Gamma; \Delta \vdash A}$

$$\frac{}{\Gamma; \Delta, A \vdash A}\ \textsc{L_ax}$$

$$\frac{}{\Gamma, A; \emptyset \vdash A}\ \textsc{L_bax}$$

$$\frac{}{\Gamma; \Delta \vdash \top}\ \textsc{L_true}$$

$$\frac{}{\Gamma; \Delta, \bot \vdash A}\ \textsc{L_false}$$

$$\frac{\Gamma; \Delta \vdash A \quad \Gamma; \Delta \vdash B}{\Gamma; \Delta \vdash A \wedge B}\ \textsc{L_conjI}$$

$$\frac{\Gamma; \Delta \vdash A \wedge B}{\Gamma; \Delta \vdash A}\ \textsc{L_conjE1}$$

$$\frac{\Gamma; \Delta \vdash A \wedge B}{\Gamma; \Delta \vdash B}\ \textsc{L_conjE2}$$

$$\frac{\Gamma; \Delta \vdash A}{\Gamma; \Delta \vdash A \vee B}\ \textsc{L_disjI1}$$

$$\frac{\Gamma; \Delta \vdash B}{\Gamma; \Delta \vdash A \vee B}\ \textsc{L_disjI2}$$

$$\frac{\begin{array}{l}\Gamma; \Delta, A \vdash C \\ \Gamma; \Delta, B \vdash C \quad \Gamma; \Delta \vdash A \vee B\end{array}}{\Gamma; \Delta \vdash C}\ \textsc{L_disjE}$$

$$\frac{\Gamma; \emptyset \vdash A}{\Gamma; \Delta \vdash \Box A}\ \textsc{L_boxI}$$

$$\frac{\Gamma;\Delta \vdash \Box\, A \quad \Gamma, A;\Delta \vdash B}{\Gamma;\Delta \vdash B}\ \text{L\_BOXE}$$

$$\frac{\Gamma;\Delta \vdash A}{\Gamma;\Delta \vdash \blacklozenge\, A}\ \text{L\_BDIAI}$$

$$\frac{\Gamma;\Delta \vdash \blacklozenge\, A \quad \Gamma;A \vdash \blacklozenge\, B}{\Gamma;\Delta \vdash \blacklozenge\, A}\ \text{L\_BDIAE}$$

$$\frac{\Gamma;\emptyset \vdash A}{\Gamma;\Delta \vdash \blacksquare\, A}\ \text{L\_BBOXI}$$

$$\frac{\Gamma;\Delta \vdash \blacksquare\, A \quad \Gamma, A;\Delta \vdash B}{\Gamma;\Delta \vdash B}\ \text{L\_BBOXE}$$

$$\frac{\Gamma;\Delta \vdash A}{\Gamma;\Delta \vdash \Diamond\, A}\ \text{L\_DIAI}$$

$$\frac{\Gamma;\Delta \vdash \Diamond\, A \quad \Gamma;A \vdash \Diamond\, B}{\Gamma;\Delta \vdash \Diamond\, A}\ \text{L\_DIAE}$$

$\boxed{\Gamma \vdash t : T}$

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Definition rules:         18 good    0 bad
Definition rule clauses:  33 good    0 bad
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