

Linear Everywhere Dependent Type Theory (LEDTT)

Enforce linearity in both computations and specifications.

Linear Everywhere Dependent Type Theory (LEDTT)

Every variable must be used:

Let $\Gamma \vdash t : B$. For every $x : A \in \Gamma$ then either $x \in \text{FV}(\Gamma)$ or $x \in \text{FV}(t)$ or $x \in \text{FV}(B)$.

Linearity across judgments:

Let $\Gamma \vdash t : B$. For every $x : A \in \Gamma$ then x appears only once in Γ , or only once in t , or only once in B .