

Domains for User-Defined Types

data tyconstr = constr₁ type_{1,1} ... type_{1,n₁} | ... | constr_k type_{k,1} ... type_{k,n_k}

Domain: $(\{\underline{\text{constr}}_1\} \times D_{1,1} \times \dots \times D_{1,n_1})_{\perp} \oplus \dots \oplus (\{\underline{\text{constr}}_k\} \times D_{k,1} \times \dots \times D_{k,n_k})_{\perp}$

data Nats = Zero | Succ Nats

Domain for Nats: Least solution of $D_{\text{Nats}} = \{\text{Zero}\}_{\perp} \oplus (\{\text{Succ}\} \times D_{\text{Nats}})_{\perp}$

