

# Funcons-beta: Thunks<sup>\*</sup>

The P<sub>L</sub>anCompS Project

Thunks.cbs | PLAIN | PRETTY

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## Thunks

```
[ Datatype  thunks
  Funcon    thunk
  Funcon    force ]
```

Meta-variables  $T <: \text{values}$

Datatype  $\text{thunks}(T) ::= \text{thunk}(\_ : \text{abstractions}(\_ \Rightarrow T))$

$\text{thunks}(T)$  consists of abstractions whose bodies do not depend on a given value, and whose executions normally compute values of type  $T$ .  $\text{thunk}(\text{abstraction}(X))$  evaluates to a thunk with dynamic bindings,  $\text{thunk}(\text{closure}(X))$  computes a thunk with static bindings.

Funcon  $\text{force}(\_ : \text{thunks}(T)) : \Rightarrow T$

$\text{force}(H)$  enacts the abstraction of the thunk  $H$ .

Rule  $\text{force}(\text{thunk}(\text{abstraction}(X))) \rightsquigarrow \text{no-given}(X)$

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<sup>\*</sup>Suggestions for improvement: [plancomps@gmail.com](mailto:plancomps@gmail.com).  
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.