

Funcons-beta: Records *

The P_LanCompS Project

Records.cbs | PLAIN | PRETTY

Records

```
[ Datatype records
  Funcon record
  Funcon record-map
  Funcon record-select ]
```

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

Datatype $\text{records}(T) ::= \text{record}(_ : \text{maps}(\text{identifiers}, T))$

A value of type $\text{records}(T)$ contains a map from identifiers to values of type T .

Funcon $\text{record-map}(_ : \text{records}(T)) : \Rightarrow \text{maps}(\text{identifiers}, T)$

Rule $\text{record-map}(\text{record}(M : \text{maps}(_, _))) \rightsquigarrow M$

Funcon $\text{record-select}(R : \text{records}(T), I : \text{identifiers}) : \Rightarrow T?$
 $\rightsquigarrow \text{map-lookup}(\text{record-map}(R), I)$

*Suggestions for improvement: plancomps@gmail.com.
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.