

Funcons-beta: Records

The P_LanC_ompS Project

Funcons-beta/Values/Composite/Records/Records.cbs*

Records

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

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

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

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

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

```
Funcon 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.
Issues: <https://github.com/plancomps/CBS-beta/issues>.