

Unstable-Languages-beta: LD-Funcons-Index

The PPlanCompS Project

Unstable-Languages-beta/LD/LD-Funcons-Index/LD-Funcons-Index.cbs*

Computations

Normal computation

Flowing

```
[ Funcon left-to-right
  Alias l-to-r
  Funcon sequential
  Alias seq
  Funcon effect
  Funcon if-true-else
  Alias if-else
  Funcon while-true
  Alias while ]
```

Giving

```
[ Funcon give
  Funcon given ]
```

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

Binding

```
[ Funcon initialise-binding  
  Funcon bind-value  
    Alias bind  
  Funcon bound-value  
    Alias bound  
  Funcon scope ]
```

Generating

```
[ Type atoms  
  Funcon fresh-atom ]
```

Storing

```
[ Funcon initialise-storing  
  Datatype variables  
    Alias vars  
  Funcon allocate-initialised-variable  
    Alias alloc-init  
  Funcon assign  
  Funcon assigned ]
```

Abnormal computation

Terminating abruptly

```
[ Funcon handle-abrupt ]
```

Failing

```
[ Funcon finalise-failing  
  Funcon fail  
  Funcon checked ]
```

Values

Value Types

```
[ Type values
  Alias vals
  Funcon is-value
  Alias is-val
  Type ground-values
  Alias ground-vals ]
```

Primitive values

Booleans

```
[ Datatype booleans
  Alias bools
  Funcon true
  Funcon false ]
```

Integers

```
[ Type integers
  Alias ints
  Type natural-numbers
  Alias nats
  Funcon integer-add
  Alias int-add
  Funcon integer-multiply
  Alias int-mul
  Funcon integer-divide
  Alias int-div
  Funcon integer-is-less-or-equal
  Alias is-less-or-equal
  Funcon decimal-natural
  Alias decimal ]
```

The null value

```
[ Datatype null-type  
  Funcon null-value  
  Alias null ]
```

Composite values

Sequences of values

```
[ Funcon length  
  Funcon index ]
```

Lists

```
[ Datatype lists ]
```

Sets

```
[ Type sets  
  Funcon is-in-set  
  Funcon is-subset  
  Funcon set-unite  
  Funcon set-intersect  
  Funcon set-difference  
  Funcon some-element ]
```

Maps

```
[ Type maps  
  Funcon map  
  Funcon map-lookup  
    Alias lookup  
  Funcon map-domain  
    Alias dom  
  Funcon map-override  
  Funcon map-unite  
  Funcon map-delete ]
```

Abstraction values

Generic abstractions

```
[ Type abstractions  
  Funcon abstraction  
  Funcon closure ]
```

Thunks

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

Functions

```
[ Datatype functions  
  Funcon function  
  Funcon apply  
  Funcon supply ]
```