

Unstable-Languages-beta: LD-Funcons-Index *

The P_LanCompS Project

LD-Funcons-Index.cbs | PLAIN | PRETTY

OUTLINE

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

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]

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 ]
```