

Languages-beta: SL-Funcons-Index *

The P_LanCompS Project

SL-Funcons-Index.cbs | PLAIN | PRETTY

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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* sequential
- Alias* seq
- Funcon* effect
- Funcon* if-true-else
- Alias* if-else
- Funcon* while-true
- Alias* while]

Giving

- [*Funcon* initialise-giving
- Funcon* give
- Funcon* given]

Binding

- [*Type* environments
- Alias* envs
- Datatype* identifiers
- Alias* ids
- Funcon* initialise-binding
- Funcon* bind-value
- Alias* bind
- Funcon* bound-value
- Alias* bound
- Funcon* closed
- Funcon* scope
- Funcon* collateral]

Generating

- [*Funcon* fresh-atom]

Storing

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

Interacting

Input

- [*Funcon* read]

Output

```
[ Funcon  print ]
```

Abnormal computation

Terminating abruptly

```
[ Funcon  finalise-abrupting ]
```

Failing

```
[ Funcon  fail  
  Funcon  else  
  Funcon  checked ]
```

Returning

```
[ Funcon  return  
  Funcon  handle-return ]
```

Breaking

```
[ Funcon  break  
  Funcon  handle-break ]
```

Continuing

```
[ Funcon  continue  
  Funcon  handle-continue ]
```

Values

Value Types

```
[ Type   values  
  Alias  vals  
  Type   cast-to-type  
  Alias  cast  
  Funcon is-equal  
  Alias  is-eq ]
```

Primitive values

Booleans

```
[ Datatype  booleans  
  Alias     bools  
  Funcon    true  
  Funcon    false  
  Funcon    not ]
```

Integers

```
[ Type    integers
  Alias    ints
Funcon    integer-add
  Alias    int-add
Funcon    integer-subtract
  Alias    int-sub
Funcon    integer-multiply
  Alias    int-mul
Funcon    integer-divide
  Alias    int-div
Funcon    integer-negate
  Alias    int-neg
Funcon    integer-is-less
  Alias    is-less
Funcon    integer-is-less-or-equal
  Alias    is-less-or-equal
Funcon    integer-is-greater
  Alias    is-greater
Funcon    integer-is-greater-or-equal
  Alias    is-greater-or-equal
Funcon    decimal-natural
  Alias    decimal ]
```

The null value

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

Composite values

Lists

```
[ Datatype  lists
  Funcon    list-nil
  Alias      nil
  Funcon    list-cons
  Alias      cons
  Funcon    list-head
  Alias      head
  Funcon    list-tail
  Alias      tail ]
```

Strings

```
[ Type      strings
Funcon      string-append
Funcon      to-string ]
```

Maps

```
[ Funcon  map  
  Funcon  map-lookup  
    Alias  lookup  
  Funcon  map-override ]
```

Objects

```
[ Datatype objects  
  Funcon  object  
    Funcon  object-feature-map ]
```

Abstraction values

Generic abstractions

```
[ Funcon  closure ]
```

Functions

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