Languages-beta: SL-Funcons-Index *

The PLanCompS Project

SL-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 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

```
Туре
        integers
        ints
        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 ]
```