Languages-beta: SL-Funcons-Index [*]

The PLanCompS Project

`SL-Funcons-Index.cbs` | PLAIN | PRETTY

OUTLINE

[*] 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 ]
```