Languages-beta: SIMPLE-Funcons-Index

The PLanCompS Project

`Languages-beta/SIMPLE/SIMPLE-Funcons-Index/SIMPLE-Funcons-Index.cbs`*

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
Funcon left-to-right-repeat]

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

Binding

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

Storing

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

Interacting

Input

[*Funcon* read]

Output

[*Funcon* print]

Abnormal computation

Failing

[*Funcon* finalise-failing
Funcon checked]

Throwing

[*Funcon* finalise-throwing
Funcon throw
Funcon handle-thrown]

Returning

[*Funcon* return
Funcon handle-return]

Values

Value Types

[*Type* values
Alias vals
Funcon is-equal
Alias is-eq]

Primitive values

Booleans

[*Funcon* true
Funcon false
Funcon not]

Integers

[*Type* natural-numbers
Alias nats
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-modulo
Alias int-mod
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

Sequences of values

[*Funcon* length
Funcon index]

Tuples

[*Datatype* tuples]

Vectors

[*Datatype* vectors
Funcon vector
Funcon vector-elements]

Abstraction values

Generic abstractions

[*Funcon* closure]

Functions

[*Datatype* functions
Funcon function
Funcon apply]

Patterns

[*Datatype* patterns
Funcon pattern
Funcon match]