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

The PLanCompS Project

`IMPPP-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
Funcon atomic]

Giving

[*Entity* given-value
Funcon give
Funcon given
Funcon no-given
Funcon left-to-right-filter]

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]

Generating

[*Type* atoms
Funcon fresh-atom]

Storing

[*Entity* store
Funcon initialise-storing
Funcon allocate-variable
Alias alloc
Funcon allocate-initialised-variable
Alias alloc-init
Funcon assign
Funcon assigned
Funcon un-assign]

Interacting

Input

[*Funcon* read]

Output

[*Funcon* print]

Abnormal computation

Terminating abruptly

[*Entity* abrupted
Funcon handle-abrupt]

Failing

[*Funcon* finalise-failing
Funcon fail
Funcon else
Funcon checked
Funcon check-true]

Values

Value Types

[*Type* values
Alias vals
Funcon is-value
Alias is-val
Funcon when-true
Alias when
Type ground-values
Alias ground-vals
Funcon is-equal
Alias is-eq]

Primitive values

Booleans

[*Datatype* booleans
Alias bools
Funcon true
Funcon false
Funcon not
Funcon and]

Integers

[*Type* integers
Alias ints
Type positive-integers
Alias pos-ints
Type natural-numbers
Alias nats
Funcon natural-successor
Alias nat-succ
Funcon natural-predecessor
Alias nat-pred
Funcon integer-add
Alias int-add
Funcon integer-divide
Alias int-div
Funcon integer-negate
Alias int-neg
Funcon integer-is-less-or-equal
Alias is-less-or-equal
Funcon integer-is-greater
Alias is-greater
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
Funcon first
Funcon second]

Tuples

[*Datatype* tuples
Funcon tuple-elements]

Lists

[*Datatype* lists
Funcon list-elements
Funcon list-cons
Alias cons
Funcon list-head
Alias head
Funcon list-tail
Alias tail
Funcon list-append]

Strings

[*Type* strings
Funcon string-append]

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

[*Funcon* apply
Funcon supply]