Languages-beta: SIMPLE-Funcons-Index *

The PLanCompS Project

SIMPLE-Funcons-Index.cbs | PLAIN | PRETTY

OUTLINE

Computations

Normal computation

Flowing

Giving

Binding

Storing

Interacting

Input

Output

Abnormal computation

Failing

Throwing

Returning

Values

Value Types

Primitive values

Booleans

Integers

The null value

Composite values

Sequences of values

Tuples

Vectors

Abstraction values

Generic abstractions

Functions

Patterns

^{*}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
Funcon left-to-right-repeat ]
```

Binding

```
[ Type environments
    Alias envs

Datatype identifiers
    Alias ids

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-throwingFuncon throwFuncon 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

```
Туре
             natural-numbers
             nats
     Funcon
             integer-add
             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]