Unstable-Languages-beta: SIMPLE-THR-1-Lexical

The PLanCompS Project

Unstable-Languages-beta/SIMPLE-THR/SIMPLE-THR-1-Lexical/SIMPLE-THR-1-Lexical.c

Language"SIMPLE-THR"

1 Lexical Syntax

1.1 Booleans

```
Rule val[ false ] =
    false
Rule val[ true ] =
    true
```

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

1.2 Integers

```
Rule val [\![ Z ]\!] = decimal-natural ("Z")
```

1.3 Strings

Rule val
$$\llbracket$$
 " S " \rrbracket = " S "

1.4 Identifiers

```
Lexis Id: id: (A - Z | a - z | _) (0 - 9 | A - Z | a - z | _)*
Semantics \ \mathsf{id} \llbracket \ \_ : \mathsf{id} \ \rrbracket : \Rightarrow \mathsf{ids}
     Rule id [\![ Id ]\!] =
              "Id"
Lexis keyword ::= false
                   true
                    var
                   function
                   | sizeOf
                  read
                  spawn
                  if
                   else
                  while
                  for
                  print
                  return
                   try
                   catch
                   throw
                   | join
                   acquire
                  release
                  rendezvous
```