Languages-beta: SIMPLE-1-Lexical

The PLanCompS Project

 ${\tt Languages-beta/SIMPLE-1-Lexical/SIMPLE-1-Lexical.cbs}^*$

Language"SIMPLE"

1 Lexical Syntax

1.1 Booleans

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

1.2 Integers

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

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

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