Languages-beta: SL-1-Lexemes

The PLanCompS Project

Languages-beta/SL/SL-1-Lexemes/SL-1-Lexemes.cbs*

Language"SL"

1 Lexemes

Identifiers

```
Lexis Id: id: = (a - z \mid A - Z) (a - z \mid A - Z \mid 0 - 9)^*
Semantics id[[Id: id]]: \Rightarrow ids
Rule id[[Id]] = [Id]^*
```

Numerals

```
Syntax Int: int::= -?_nat

Lexis Nat: nat::= (0 - 9)+

Semantics int-val [ Int: int ] : ⇒ integers

Rule int-val [ - Nat ] =

integer-negate int-val [ Nat ]

Rule int-val [ Nat ] =

decimal-natural "Nat"
```

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

Strings

```
\begin{tabular}{ll} \textit{Syntax String}: string ::= "\_string-chars\_" \\ \textit{Lexis StringChars}: string-chars ::= string-char* \\ string-char ::= \sim (" \mid \n) \\ \\ \textit{Semantics string-val} [ \textit{String}: string ] : \Rightarrow strings \\ \textit{Rule string-val} [ " \textit{StringChars} " ] = "StringChars" \\ \end{tabular}
```