Unstable-Languages-beta: IMPPP-1 *

The PLanCompS Project

`IMPPP-1.cbs` | PLAIN | PRETTY

OUTLINE

Language   "IMPPP"

1 Values

Integers

Syntax N : int ::= '-'? decimal

Lexis D : decimal ::= ('0'-'9')$^+$

Semantics   int-val⟦ _ : int ⟧ : ⇒ integers

     Rule   int-val⟦ D ⟧ = decimal-natural("D")

     Rule   int-val⟦ '-' D ⟧ = integer-negate(int-val⟦ D ⟧)

Strings

Syntax S : string ::= '"' string-chars '"'

Lexis SCS : string-chars ::= (∼ '"')*

Semantics   string-val⟦ _ : string ⟧ : ⇒ strings

     Rule   string-val⟦ '"' SCS '"' ⟧ = "SCS"

Identifiers

Lexis I : id ::= ('A'-'Z' | 'a'-'z' | '_') ('0'-'9' | 'A'-'Z' | 'a'-'z' | '_')*

Semantics   id⟦ _ : id ⟧ : ⇒ ids

     Rule   id⟦ I ⟧ = "I"

Lexis   keyword ::= 'else' | 'false' | 'if' | 'halt' | 'join'
                 | 'print' | 'read' | 'spawn' | 'true' | 'while'