Languages-beta: OC-L-03-Names *

The PLanCompS Project

OC-L-03-Names.cbs | PLAIN | PRETTY

OUTLINE

3 Names

Naming objects
Infix operator precedence
Referring to named objects

Language "OCaml Light"

3 Names

Naming objects

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

Infix operator precedence

```
Syntax IO: infix-op ::= infix-op-1 | infix-op-2 | infix-op-3 | infix-op-4
                             | infix-op-5 | infix-op-6 | infix-op-7 | infix-op-8
 Lexis IO-1: infix-op-1 ::= '**' operator-char* | 'lsl' | 'lsr' | 'asr'
         IO-2: infix-op-2 ::= '*'
                             '*' operator-char-not-asterisk operator-char*
                             | ('/' | '%') operator-char*
                              | 'mod' | 'land' | 'lor' | 'lxor'
         IO-3: infix-op-3 ::= ('+' | '-') operator-char*
         IO-4: infix-op-4 ::= ('@' | '^') operator-char*
         IO-5: infix-op-5 ::= ('=' | '<' | '>' | '$') operator-char*
                             '| '| (operator-char-not-bar operator-char*)?
                             | '||' operator-char<sup>+</sup>
                              | '&' operator-char-not-ampersand operator-char*
                             | '&&' operator-char<sup>+</sup>
                              | '!=
         IO-6: infix-op-6 ::= '&' | '&&'
         IO-7: infix-op-7 ::= 'or' | '||
         IO-8: infix-op-8 ::= ':='
Lexis CN: constr-name ::= capitalized-ident
 TCN: typeconstr-name ::= lowercase-ident
          FN: field-name ::= lowercase-ident
      MN: module-name ::= capitalized-ident
```

Referring to named objects

```
Syntax VP : value-path ::= value-name
          CSTR: constr::= constr-name
    TCSTR: typeconstr ::= typeconstr-name
                 F: field ::= field-name
Semantics value-name [ _ : value-path ] : ⇒ ids
     Rule value-name [LI] = "LI"
      Rule value-name [ (PS')] = string-append("(", "PS", ")")
      Rule value-name [ (IO-1)] = string-append(("(", "IO-1", ")")]
      Rule value-name \lceil (10-2) \rceil = \text{string-append}("(", "IO-2", ")")
      Rule value-name [ (' IO-3')'] = string-append ("(", "IO-3", ")")
      Rule value-name \lceil (' IO-4')' \rceil = \text{string-append}("(", "IO-4", ")")
      Rule value-name \lceil (' IO-5')' \rceil = \text{string-append}("(", "IO-5", ")")
      Rule value-name \lceil (10-6) \rceil = \text{string-append}("(", "IO-6", ")")
      Rule value-name [ (' IO-7')'] = string-append(('(', "IO-7", ")")]
            value-name (' ' 10-8')' = string-append ("(", "10-8", ")")
Semantics constr-name [ : constr ] : \Rightarrow ids
     Rule constr-name [CN] = "CN"
```

 $\begin{array}{ll} \textit{Semantics} & \textit{field-name} [\ _: \ \textit{field} \] : \Rightarrow \textit{ids} \\ & \textit{Rule} & \textit{field-name} [\ \textit{FN} \] = \textit{"FN"} \\ \end{array}$