

Languages-beta: SIMPLE-5-Programs *

The P_LanCompS Project

SIMPLE-5-Programs.cbs | PLAIN | PRETTY

Language "SIMPLE"

5 Programs

Syntax $Pgm : \text{pgm} ::= \text{decls}$

Semantics $\text{run}[\![\text{Decls} : \text{pgm}]\!] : \Rightarrow \text{values}$
 $= \text{scope}(\text{collateral}(\text{declarations}[\![\text{Decls}]\!]), \text{sequential}(\text{initialisations}[\![\text{Decls}]\!], \text{apply}(\text{assigned}(\text{bound}(\text{"main"})), \text{tuple}(\)))))$

Syntax $\text{Decls} : \text{decls} ::= \text{decl decls}?$

Semantics $\text{declarations}[\![_ : \text{decls}]\!] : (\Rightarrow \text{environments})^+$
Rule $\text{declarations}[\![\text{Decl}]\!] = \text{declare}[\![\text{Decl}]\!]$
Rule $\text{declarations}[\![\text{Decl Decls}]\!] = \text{declare}[\![\text{Decl}]\!], \text{declarations}[\![\text{Decls}]\!]$

Semantics $\text{initialisations}[\![_ : \text{decls}]\!] : (\Rightarrow \text{null-type})^+$
Rule $\text{initialisations}[\![\text{Decl}]\!] = \text{initialise}[\![\text{Decl}]\!]$
Rule $\text{initialisations}[\![\text{Decl Decls}]\!] = \text{initialise}[\![\text{Decl}]\!], \text{initialisations}[\![\text{Decls}]\!]$

*Suggestions for improvement: plancomps@gmail.com.
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.