Unstable-Languages-beta: IMPPP-3

The PLanCompS Project

Unstable-Languages-beta/IMPPP/IMPPP-3/IMPPP-3.cbs*

Language"IMPPP"

3 Boolean expressions

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

```
Semantics eval-bool [ \_ : bexp ] : ⇒ booleans
       Rule eval-bool[ false ] =
                 false
       Rule \; eval-bool \llbracket \; true \; \rrbracket =
                 true
       Rule eval-bool [AExp_1 \leftarrow AExp_2] =
                 is-less-or-equal left-to-right(eval-arith[ AExp_1 ],
                      eval-arith AExp<sub>2</sub>
       Rule \ eval-bool \llbracket \ ! \ BExp \ \rrbracket =
                not(eval-bool[ BExp ])
       Rule eval-bool [BExp_1 \&\& BExp_2] =
                if-true-else(eval-bool [BExp_1],
                   eval-bool [\![BExp_2]\!],
                    false)
       Rule \; {\sf eval-bool} \llbracket \; ( \; BExp \; ) \; \rrbracket =
                eval-bool BExp B
```