

IMP

MODULE IMP-SYNTAX

```
SYNTAX  AExp ::= Int
          | String
          | Id
          | ++ Id
          | read ()
          | AExp / AExp [division, strict]
          | AExp + AExp [strict]
          | spawn Block
          | Id = AExp [strict(2)]
          | (AExp) [bracket]

SYNTAX  BExp ::= Bool
          | AExp ≤ AExp [seqstrict]
          | ! BExp [strict]
          | BExp && BExp [strict(1)]
          | (BExp) [bracket]

SYNTAX  Block ::= {Stmts}

SYNTAX  Stmt ::= Block
          | AExp ; [strict]
          | if (BExp)Block else Block [strict(1)]
          | while (BExp)Block
          | int Ids ;
          | print (AExps) ; [strict]
          | halt ;
          | join AExp ; [strict]

SYNTAX  Ids ::= List{Id, “,”} [strict]

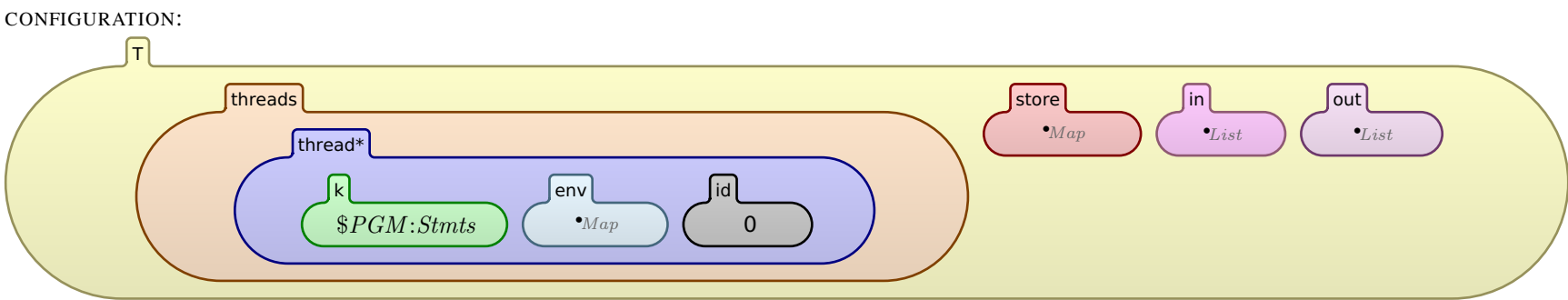
SYNTAX  AExps ::= List{AExp, “,”} [strict]

SYNTAX  Stmts ::= List{Stmt, “”}
```

END MODULE

MODULE IMP

```
SYNTAX  KResult ::= Int
          | Bool
          | String
```



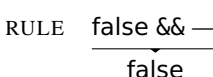
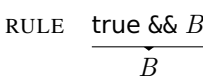
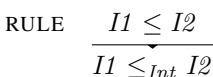
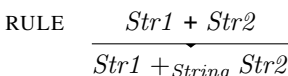
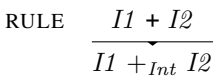
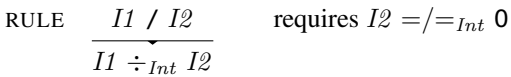
[lookup]



[increment]



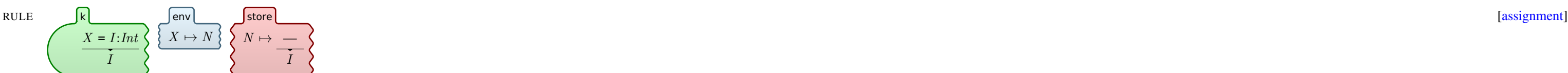
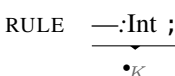
[read]



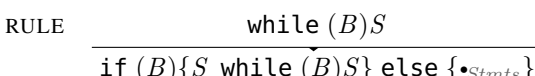
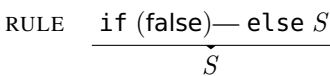
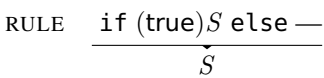
[structural]



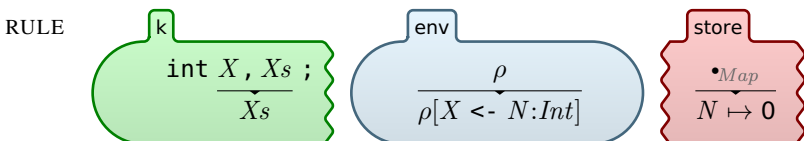
[structural]



[assignment]



[structural]



[structural]

SYNTAX AExp ::= Printable

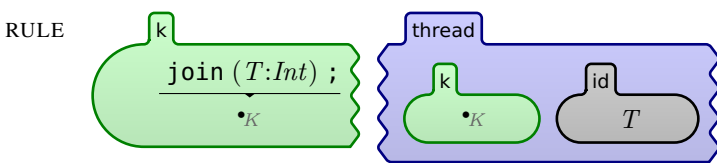
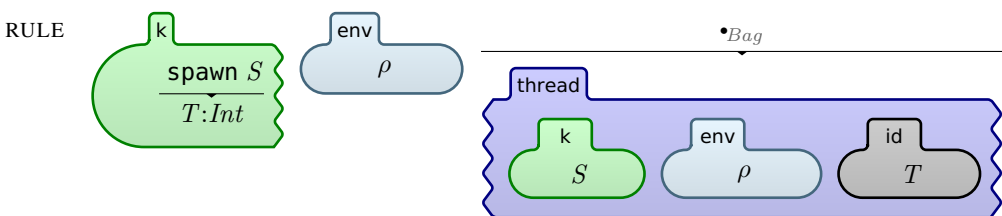
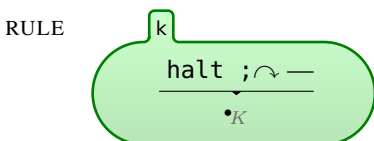
```
SYNTAX  Printable ::= Int
          | String
```



[print]



[structural]



[structural]



[structural]

END MODULE