

consumes and tests the top of the data stack. If the top is 0_F

Let's try this again, for now with infinite fields for simplicity, then we can map to finite ones.

One element type: F

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, drop a
elements in the code stack.
  1. REFLECT moves the top of the code stack to the top of the data stack.
  2. REPR moves the top of the code stack to the top of the data stack.
  3. REPLACE_SELF:
  4. Copies the entire current state, saves it to S 0
   · Define eval_n
as some opaque function such that the result of executing eval_n
is always the same as the result of: * Starting in S_0
   · Appending the code stacks
   · Appending the data stacks
   · Calling the evaluator recursively until it halts
   · Reading the data stack
   • Starting in S_0
   · Appending the code stacks
   · Appending the data stacks
   · Calling the evaluator recursively until it halts
   · Reading the data stack
   · Append eval_n
to the evaluator stack
The next loop, eval_n
is called instead.
Some properties which should hold:
   · REFLECT and REPR are always inverse.
   • They always transform to a format which is known at compile time (eval_0
).
   • eval_n
understands how to evaluate terms "compiled" with eval_0 ... eval_{n-1}
(this can be achieved just by using the evaluator stack).
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, do nothing. If the top is 1_F