```
02 \ominus
          pop
          push + a
01 ⊕
04 ⊕
          divine
          dup + i
05 ⊕
09 \bigcirc^{16}
           swap + i
08 🔾
           nop
          skiz
06 ⊖
          call + d
13 🔾
          return
12 🔾
16 🔾
          recurse
10 😑
           assert
00 🔾
          halt
\bigcirc^1
          read_mem
          write_mem
24 🔾
28 \bigcirc^{10}
          hash
32 \bigcirc^{11}
          divine_sibling st12 % 2 = 0 \Rightarrow left node
36 🔾
          assert_vector
14 \Theta^1
          add
18 \Theta^1
          mul
0 \quad \bigcirc^1
          invert
44 \oplus^2
                           hi \rightarrow st0
          split
22 \quad \bigcirc^1
           eq
48 \oplus^2
           lsb
52 \bigcirc^3
          xxadd
```

 \bigcirc^3

 \bigcirc^3

 \bigcirc^3

64 ⊕

30 😑

xxmul

xinvert

xbmul

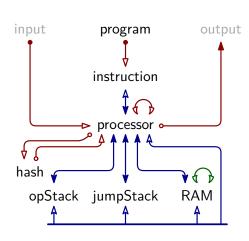
 $read_io$

 $write_io$

st0 · (st1, st2, st3)

Table	Base	Columns																				
Program	Address			Inst	Instruction IsPadding																	
Instruction	Addı	ess			CI	NIA	IsPa	dding														
Processor	CLK	IsPadding	IP	PI	CI	NIA	IB0		IB6	JSP	JS0	JSD	ST0		ST15	OSP	OSV	HVO		HV3	RAMP	RAMV
OpStack	CLK	clk_di						IB1	(≘ shr	ink sta	ack)					OSP	OSV					
RAM	CLK	clk_di		PI		bcpc0	bcpc	1										RAMP	DiffIn	V	RAMP	RAMV
JumpStack	CLK	clk_di			CI					JSP	JS0	JSD										
Hash	Rour	ndNumber											ST0		ST15		CONSTA	NTOA		CONS	TANT15	В

#clk	instruction
2	neg
4	sub
68	is_u32
139	split_assert
146	lte
148	lt
295	and
301	xor
195	reverse
164	div



p = 18446744069414584321								
i	$\mathbb{F}_p(1/i)$	$-\mathbb{F}_p(1/i)$						
2	092161	922160						
3	122881	614440						
4	138241	461080						
5	147457	368864						
6	153601	307720						

	base	ext	Σ
Program	3	1	4
Instruction	4	2	6
Processor	43	11	54
OpStack	5	2	7
RAM	8	6	14
JumpStack	6	2	8
Hash	49	2	51
Σ	118	26	144

	init	cons	trans	term	Σ
Program	2	1	3		6
Instruction	3	1	5		9
Processor	37	11	75	2	125
OpStack	5		6		11
Ram	8		14	1	23
JumpStack	6		8		14
Hash	3	38	21		62
Cross-Table				1	1
Σ	64	51	132	4	251