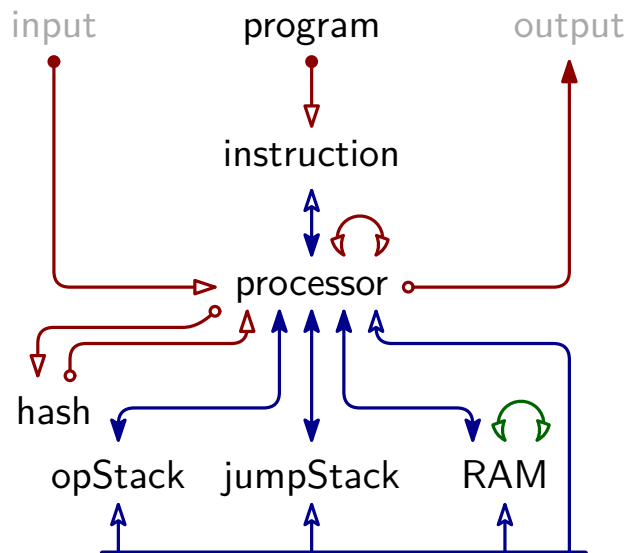


```

02 ⊖ pop
01 ⊕ push + a
04 ⊕ divine
05 ⊕ dup + i
09 ○16 swap + i
08 ○ nop
06 ⊖ skiz
13 ○ call + d
12 ○ return
16 ○ recurse
10 ⊖ assert
00 ○ halt
20 ○1 read_mem
24 ○ write_mem
28 ○10 hash
32 ○11 divine_sibling  st12 % 2 = 0 ⇒ left node
36 ○ assert_vector
14 ⊖1 add
18 ⊖1 mul
40 ○1 invert
44 ⊕2 split          hi → st0'
22 ⊖1 eq
48 ⊕2 lsb
52 ○3 xxadd
56 ○3 xxmulo
60 ○3 xinverso
26 ⊖3 xbmulo          st0 · (st1, st2, st3)
64 ⊕ read_io
30 ⊖ write_io

```



	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

Table	Base Columns																											
Program	Address				Instruction		IsPadding																					
Instruction	Address				CI	NIA	IsPadding																					
Processor	CLK	IsPadding	IP	PI	CI	NIA	IB0	...	IB6	JSP	JS0	JSD	ST0	...	ST15	OSP	OSV	HV0	...	HV3	RAMP	RAMV						
OpStack	CLK	clk.di	IB1 ($\hat{=}$ shrink stack)												OSP		OSV											
RAM	CLK	clk.di	PI		bcpc0		bcpc1												RAMPDiffInv						RAMP	RAMV		
JumpStack	CLK	clk.di			CI														JSP	JS0	JSD							
Hash	RoundNumber																ST0	...	ST15	CONSTANT0A		...	CONSTANT15B					

$$p = 18446744069414584321$$

i	$\mathbb{F}_p(1/i)$	$-\mathbb{F}_p(1/i)$
2	092...161	922...160
3	122...881	614...440
4	138...241	461...080
5	147...457	368...864
6	153...601	307...720

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

	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