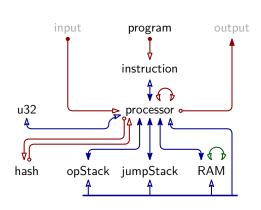
```
2 ⊖
                         pop
                                                              _{	extsf{-}} st_{0}
    1
           \oplus
                         push + a
                                                                                                                        _{\scriptscriptstyle -} a
    8
           \oplus
                         divine
                                                                                                                        _ a
           \oplus
                                                              _{	extsf{-}} st_{15} \dots st_{0}
    9
                         dup + i
                                                                                                                        _{	extsf{-}} st_{15} ... st_{0} st_{i}
           \bigcirc^{16}
  17
                         swap + i
                                                                                                                       _{	extstyle -} ... \operatorname{\mathfrak{st}}_0 ... \operatorname{\mathfrak{st}}_i
                                                              _{\text{-}} ... \operatorname{\mathsf{st}}_i ... \operatorname{\mathsf{st}}_0
  16
           \bigcirc
                         nop
  10
           \ominus
                        skiz
                                                              _{	extsf{-}} \operatorname{\mathfrak{st}}_0
  25
          \circ
                        call + d
  24
           \bigcirc
                        return
  32
           \bigcirc
                        recurse
  18
           \ominus
                         assert
                                                              _{	extsf{-}} \mathsf{st}_0
    0
           \bigcirc
                         halt
           \bigcirc^1
  40
                        read_mem
                                                              _ addr st<sub>0</sub>
                                                                                                                        _{\scriptscriptstyle -} addr val
  48
           \circ
                         write_mem
                                                              _{\scriptscriptstyle -} addr val
                                                                                                                       _ addr val
           \bigcirc^{10}
  56
                         hash
                                                                                                                       _{-} d<sub>4</sub> ... d<sub>0</sub> 0 ... 0
                                                              _{-} st_{9}\ldotsst_{0}
           \bigcirc^{11}
  64
                         divine_sibling _ idx st<sub>9</sub>...st<sub>5</sub> d<sub>4</sub>...d<sub>0</sub> _ idx>>1 r_4...r_0 l<sub>4</sub>...l<sub>0</sub>
  72
           \bigcirc
                         assert\_vector
  26
           \ominus^1
                         add
                                                              _{	extsf{-}} st_{1} st_{0}
                                                                                                                        _{-} sum
           \ominus^1
                        mul
  34
                                                              _{	extsf{-}} \operatorname{\mathtt{st}}_{1} \operatorname{\mathtt{st}}_{0}
                                                                                                                        _ prod
           \bigcirc^1
                                                                                                                        _{\text{-}} \operatorname{st}_{0}^{-1}
  80
                         {\tt invert}
                                                              _{	t -} {	t st}_0
  42
           \ominus^1
                                                                                                                        _{-} (st<sub>0</sub>==st<sub>1</sub>)
                         eq
                                                              _{	extsf{-}} \operatorname{\mathfrak{st}}_1 \operatorname{\mathfrak{st}}_0
           \oplus^2
                         split
                                                                                                                        _{-} lo hi
    4
                                                              _{	extsf{-}} \mathsf{st}_0
                         lt
  12
           \ominus
                                                                                                                        _{-} (st<sub>0</sub><st<sub>1</sub>)
                                                              _{	extsf{-}} \operatorname{\mathsf{st}}_1 \operatorname{\mathsf{st}}_0
  20
           \ominus
                         and
                                                                                                                       _{-} (st_{0}&st_{1})
                                                              _{	extsf{-}} \operatorname{\mathfrak{st}}_1 \operatorname{\mathfrak{st}}_0
  28
           \ominus
                        xor
                                                              _{	extsf{-}} \operatorname{\mathtt{st}}_1 \operatorname{\mathtt{st}}_0
                                                                                                                        _{-} (st_{0}^st_{1})
  36
           \circ
                        log_2_floor
                                                                                                                        - \lfloor \log_2(\mathsf{st}_0) \rfloor
                                                              _{	t st}_0
  44
           \ominus
                                                                                                                        _{-} b^{e}
                         pow
                                                              _{-} e b
  52
           \ominus
                         div
                                                              _ denom num
                                                                                                                       _ quot rem
           \bigcirc^3
  88
                         xxadd
                                                              \bigcirc^3
  96
                         xxmul
                                                              \ \ {}_{-}\ y_2\ y_1\ y_0\ z_2\ z_1\ z_0
           \bigcirc_3
104
                         xinvert
                                                              _{-} \mathbf{x}_{2} \mathbf{x}_{1} \mathbf{x}_{0}
                                                                                                                       - y2 y1 y0
           \ominus^3
 50
                         xbmul
                                                              _{-} \mathbf{x}_{2} \mathbf{x}_{1} \mathbf{x}_{0} b
                                                                                                                        - y2 y1 y0
112
           \oplus
                         read_io
                                                                                                                        _ a
 58 ⊖
                         write_io
                                                              _{	extsf{-}} \operatorname{\mathfrak{st}}_0
```

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



<i>p</i> =	= 1844674406	9414584321
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

	$_{ m init}$	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
$\sum$	64	51	132	4	251