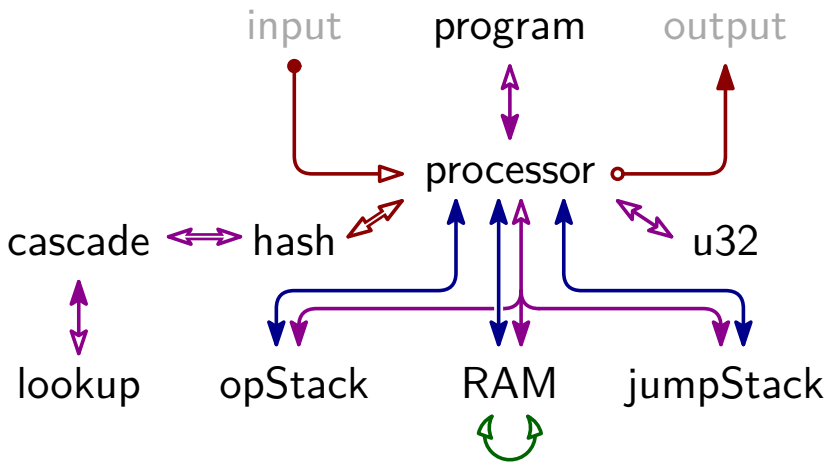
Triton VM

v0.19

2	$\ominus$	pop	_ st_0	_
1	$\oplus$	push + a	_	_ a
8	$\oplus$	divine	_	_ a
9	$\oplus$	dup + i	_ st_{15} ... st_0	_ st_{15} ... st_0 st_i
17	$\bigcirc^{16}$	swap + i	_ ... st_i ... st_0	_ ... st_0 ... st_i
16	$\bigcirc$	nop	_	_
10	$\ominus$	skiz	_ st_0	_
25	$\bigcirc$	call + d	_	_
24	$\bigcirc$	return	_	_
32	$\bigcirc$	recurse	_	_
18	$\ominus$	assert	_ st_0	_
0	$\bigcirc$	halt	_	_
40	$\ominus$	read_mem	_ addr	_ addr a
26	$\oplus$	write_mem	_ addr a	_ addr
48	$\bigcirc^{10}$	hash	_ $st_9 \ldots st_0$	_ $d_4 \ldots d_0$ 0...0
56	$\bigcirc^{11}$	divine_sibling	_ idx $st_9 \ldots st_5$ $d_4 \ldots d_0$	_ idx>>1 $r_4 \ldots r_0$ $l_4 \ldots l_0$
64	$\bigcirc$	assert_vector	_	_
72	$\bigcirc$	absorb_init	_	_
80	$\bigcirc$	absorb	_	_
88	$\bigcirc^{10}$	squeeze	_ st_9 ... st_0	_ sq_9 ... sq_0
34	$\ominus^{1}$	add	_ st_1 st_0	_ (st_0+st_1)
42	$\ominus^{1}$	mul	_ st_1 st_0	_ (st_0·st_1)
96	$\bigcirc^{1}$	invert	_ st_0	_ st_0^{-1}
50	$\ominus^{1}$	eq	_ st_1 st_0	_ (st_0==st_1)
4	$\oplus^{2}$	split	_ st_0	_ hi lo
12	$\ominus^{1}$	lt	_ st_1 st_0	_ (st_0<st_1)
20	$\ominus^{1}$	and	_ st_1 st_0	_ (st_0&st_1)
28	$\ominus^{1}$	xor	_ st_1 st_0	_ (st_0^st_1)
36	$\bigcirc^{1}$	log_2_floor	_ st_0	_ $\lfloor \log_2(st_0) \rfloor$
44	$\ominus^{1}$	pow	_ e b	_ b^e
52	$\bigcirc^{2}$	div	_ denom num	_ quot rem
60	$\bigcirc^{1}$	pop_count	_ st_0	_ w
104	$\bigcirc^{3}$	xxadd	_ y_2 y_1 y_0 x_2 x_1 x_0	_ y_2 y_1 y_0 z_2 z_1 z_0
112	$\bigcirc^{3}$	xxmul	_ y_2 y_1 y_0 x_2 x_1 x_0	_ y_2 y_1 y_0 z_2 z_1 z_0
120	$\bigcirc^{3}$	xinvert	_ x_2 x_1 x_0	_ y_2 y_1 y_0
58	$\ominus^{3}$	xbmul	_ x_2 x_1 x_0 b	_ y_2 y_1 y_0
128	$\oplus$	read_io	_	_ a
66	$\ominus$	write_io	_ a	_



	base	ext	∑
Program	4	1	5
Processor	42	11	53
OpStack	4	2	6
RAM	7	6	13
JumpStack	5	2	7
Hash	66	19	85
Cascade	6	2	8
Lookup	4	2	6
U32	10	1	11
∑	148	46	194

	init	cons	trans	term	∑
Program	2	1	3		6
Processor	37	11	73	1	122
OpStack	5		4		9
Ram	8		12	1	21
JumpStack	6		6		12
Hash	21	41	42		104
Cascade	2	1	3		6
Lookup	3	1	4	1	9
U32	1	15	22	2	40
Cross-Table				1	1
∑	85	70	169	6	330