Index of Instructions

Instruction	Binary Opcode	Туре	Validation	Execution
unreachable	0x00	$\left[t_1^*\right] \to \left[t_2^*\right]$	validation	execution
nop	0x01	[] → []	validation	execution
block [t?]	0x02	$[] \to [t^*]$	validation	execution
loop [t [?]]	0x03	$[] \to [t^*]$	validation	execution
if [t [?]]	0x04	$[] \to [t^*]$	validation	execution
else	0x05			
(reserved)	0x06			
(reserved)	0x07			
(reserved)	0x08			
(reserved)	0x09			
(reserved)	0x0A			
end	0x0B			
br l	0x0C	$[t_1^* \ t^?] \rightarrow [t_2^*]$	validation	execution
br_if <i>l</i>	0x0D	$[t^? i32] \rightarrow [t^?]$	validation	execution
br_table l^* l	0x0E	$\begin{bmatrix} t^* & t^? & i32 \end{bmatrix} \to \begin{bmatrix} t^* \end{bmatrix}$	validation	execution
return	0x0F	$\begin{bmatrix} t_1^* & t^? \end{bmatrix} \rightarrow \begin{bmatrix} t_2^* \end{bmatrix}$	validation	execution
call x	0x10	$\begin{bmatrix} t_1 & t & J & \nearrow & [t_2] \\ [t_1^*] & \to & [t_2^*] \end{bmatrix}$	validation	execution
call indirect x	0x10	$\begin{bmatrix} \iota_1 \end{bmatrix} \to \begin{bmatrix} \iota_2 \end{bmatrix}$ $\begin{bmatrix} t_1^* \text{ i32} \end{bmatrix} \to \begin{bmatrix} t_2^* \end{bmatrix}$	validation	
	0x11	$ [l_1 \mid 132] \rightarrow [l_2 \mid] $	Validation	execution
(reserved)	0x12 0x13			
(reserved)				
(reserved)	0x14 0x15			
(reserved)				
(reserved)	0x16			
(reserved)	0x17 0x18			
(reserved)				
(reserved)	0x19 0x1A	[4] . [7]	31.1	
drop select	0x1A 0x1B	$[t] \to []$ $[t \ t \ i32] \to [t]$	validation	execution
	0x1C	$\begin{bmatrix} l \ l \ l \ l \ l \end{bmatrix} \rightarrow \begin{bmatrix} l \ \end{bmatrix}$	validation	execution
(reserved)	0x1C 0x1D			
(reserved)	0x1D 0x1E			
	0x1E 0x1F			
(reserved)	0x1F 0x20	$[] \rightarrow [t]$	1: 3:	
get_local x set_local x			validation	execution
	0x21	$[t] \rightarrow []$	validation	execution
tee_local x	0x22 0x23	$[t] \rightarrow [t]$	validation	execution
get_global x set_global x	0x23		validation validation	execution
	0x24 0x25	[<i>l</i>] → []	Validation	execution
(reserved)	0x25			
(reserved)	0x20			
i32. load <i>memarg</i>	0x27	[i32] → [i32]	validation	execution
i64. load memarg	0x20	$[i32] \rightarrow [i64]$	validation	execution
f32. load memarg	0x2A	$[i32] \rightarrow [f32]$	validation	execution
f64. load memarg	0x2B	$[i32] \rightarrow [f64]$	validation	execution
i32. load8_s memarg	0x2C	[i32] → [i32]	validation	execution
i32. load8_u <i>memarg</i>	0x2D	[i32] → [i32]	validation	execution
i32. load16_s memarg	0x2E	$[i32] \rightarrow [i32]$ $[i32] \rightarrow [i32]$	validation	execution
i32. load16_u memarg	0x2F	$[i32] \rightarrow [i32]$ $[i32] \rightarrow [i32]$	validation	execution
i64. load8_s memarg	0x30	[i32] → [i64]	validation	execution
i64. load8_u memarg	0x31	[i32] → [i64]	validation	execution
i64. load16_s memarg	0x31	[i32] → [i64]	validation	execution
i64. load16_u memarg	0x33	[i32] → [i64]	validation	execution
i64. load32_s memarg	0x34	[i32] → [i64]	validation	execution
i64. load32_u memarg	0x35	[i32] → [i64]	validation	execution
g				CACCUGOII
i32. store memarg	0x36	[i32 i32] → []	validation	execution

Instruction	Binary Opcode	Туре	Validation	Execution
f32. store memarg	0x38	[i32 f32] → []	validation	execution
f64. store memarg	0x39	[i32 f64] → []	validation	execution
i32. store8 memarg	0x3A	[i32 i32] → []	validation	execution
i32. store16 memarg	0x3B	[i32 i32] → []	validation	execution
i64. store8 memarg	0x3C	[i32 i64] → []	validation	execution
i64. store16 memarg	0x3D	[i32 i64] → []	validation	execution
i64. store32 memarg	0x3E	[i32 i64] → []	validation	execution
memory. size	0x3F	[] → [i32]	validation	execution
memory. grow	0x40	[i32] → [i32]	validation	execution
i32. const <i>i32</i>	0x41	[] → [i32]	validation	execution
i64. const <i>i64</i>	0x42	[] → [i64]	validation	execution
f32. const <i>f</i> 32	0x43	[] → [f32]	validation	execution
f64. const <i>f64</i>	0x44	[] → [f64]	validation	execution
i32. eqz	0x45	[i32] → [i32]	validation	execution, operator
i32. eq	0x46	[i32 i32] → [i32]	validation	execution, operator
i32. ne	0x47	[i32 i32] → [i32]	validation	execution, operator
i32. lt_s	0x48	[i32 i32] → [i32]	validation	execution, operator
i32. lt_u	0x49	[i32 i32] → [i32]	validation	execution, operator
i32. gt_s	0x4A	[i32 i32] → [i32]	validation	execution, operator
i32. gt_u	0x4B	[i32 i32] → [i32]	validation	execution, operator
i32. le_s	0x4C	[i32 i32] → [i32]	validation	execution, operator
i32. le_u	0x4D	[i32 i32] → [i32]	validation	execution, operator
i32. ge_s	0x4E	[i32 i32] → [i32]	validation	execution, operator
i32. ge_u	0x4F	[i32 i32] → [i32]	validation	execution, operator
i64. eqz	0x50	[i64] → [i32]	validation	execution, operator
i64. eq	0x51	[i64 i64] → [i32]	validation	execution, operator
i64. ne	0x52	[i64 i64] → [i32]	validation	execution, operator
i64. lt_s	0x53	[i64 i64] → [i32]	validation	execution, operator
i64. lt_u	0x54	[i64 i64] → [i32]	validation	execution, operator
i64. gt_s	0x55	[i64 i64] → [i32]	validation	execution, operator
i64. gt_u	0x56	[i64 i64] → [i32]	validation	execution, operator
i64. le_s	0x57	[i64 i64] → [i32]	validation	execution, operator
i64. le_u	0x58	[i64 i64] → [i32]	validation	execution, operator
i64. ge_s	0x59	[i64 i64] → [i32]	validation	execution, operator
i64. ge_u	0x5A	[i64 i64] → [i32]	validation	execution, operator
f32. eq	0x5B	[f32 f32] → [i32]	validation	execution, operator
f32. ne	0x5C	[f32 f32] → [i32]	validation	execution, operator
f32. lt	0x5D	[f32 f32] → [i32]	validation	execution, operator
f32. gt	0x5E	[f32 f32] → [i32]	validation	execution, operator
f32. le	0x5F	[f32 f32] → [i32]	validation	execution, operator
f32. ge	0x60	[f32 f32] → [i32]	validation	execution, operator
f64. eq	0x61	[f64 f64] → [i32]	validation	execution, operator
f64. ne	0x62	[f64 f64] → [i32]	validation	execution, operator
f64. lt	0x63	[f64 f64] → [i32]	validation	execution, operator
f64. gt	0x64	[f64 f64] → [i32]	validation	execution, operator
f64. le	0x65	[f64 f64] → [i32]	validation	execution, operator
f64. ge	0x66	[f64 f64] → [i32]	validation	execution, operator
i32. clz	0x67	[i32] → [i32]	validation	execution, operator
i32. ctz	0x68	[i32] → [i32]	validation	execution, operator
i32. popcnt	0x69	[i32] → [i32]	validation	execution, operator
i32. add	0x6A	[i32 i32] → [i32]	validation	execution, operator
i32. sub	0x6B	[i32 i32] → [i32]	validation	execution, operator
i32. mul	0x6C	[i32 i32] → [i32]	validation	execution, operator
i32. div_s	0x6D	[i32 i32] → [i32]	validation	execution, operator
i32. div_u	0x6E	[i32 i32] → [i32]	validation	execution, operator
i32. rem_s	0x6F	[i32 i32] → [i32]	validation	execution, operator
i32. rem_u	0x70	[i32 i32] → [i32]	validation	execution, operator
i32. and	0x71	[i32 i32] → [i32]	validation	execution, operator
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Instruction	Binary Opcode	Туре	Validation	Execution
i32. xor	0x73	[i32 i32] → [i32]	validation	execution, operator
i32. shl	0x74	[i32 i32] → [i32]	validation	execution, operator
i32. shr_s	0x75	[i32 i32] → [i32]	validation	execution, operator
i32. shr_u	0x76	[i32 i32] → [i32]	validation	execution, operator
i32. rotl	0x77	[i32 i32] → [i32]	validation	execution, operator
i32. rotr	0x78	[i32 i32] → [i32]	validation	execution, operator
i64. clz	0x79	[i64] → [i64]	validation	execution, operator
i64. ctz	0x7A	[i64] → [i64]	validation	execution, operator
i64. popcnt	0x7B	[i64] → [i64]	validation	execution, operator
i64. add	0x7C	[i64 i64] → [i64]	validation	execution, operator
i64. sub	0x7D	[i64 i64] → [i64]	validation	execution, operator
i64. mul	0x7E	[i64 i64] → [i64]	validation	execution, operator
i64. div_s	0x7F	[i64 i64] → [i64]	validation	execution, operator
i64. div_u	0x80	[i64 i64] → [i64]	validation	execution, operator
i64. rem_s	0x81	[i64 i64] → [i64]	validation	execution, operator
i64. rem_u	0x82	[i64 i64] → [i64]	validation	execution, operator
i64. and	0x83	[i64 i64] → [i64]	validation	execution, operator
i64. or	0x84	[i64 i64] → [i64]	validation	execution, operator
i64. xor	0x85	[i64 i64] → [i64]	validation	execution, operator
i64. shl	0x86	[i64 i64] → [i64]	validation	execution, operator
i64. shr_s	0x87	[i64 i64] → [i64]	validation	execution, operator
i64. shr_u	0x88	[i64 i64] → [i64]	validation	execution, operator
i64. rotl	0x89	[i64 i64] → [i64]	validation	execution, operator
i64. rotr	0x8A	[i64 i64] → [i64]	validation	execution, operator
f32. abs	0x8B	[f32] → [f32]	validation	execution, operator
f32. neg	0x8C	[f32] → [f32]	validation	execution, operator
f32. ceil	0x8D	[f32] → [f32]	validation	execution, operator
f32. floor	0x8E	[f32] → [f32]	validation	execution, operator
f32. trunc	0x8F	[f32] → [f32]	validation	execution, operator
f32. nearest	0x90	[f32] → [f32]	validation	execution, operator
f32. sqrt	0x91	[f32] → [f32]	validation	execution, operator
f32. add	0x92	[f32 f32] → [f32]	validation	execution, operator
f32. sub	0x93	[f32 f32] → [f32]	validation	execution, operator
f32. mul	0x94	[f32 f32] → [f32]	validation	execution, operator
f32. div	0x95	[f32 f32] → [f32]	validation	execution, operator
f32. min	0x96	[f32 f32] → [f32]	validation	execution, operator
f32. max	0x97	[f32 f32] → [f32]	validation	execution, operator
f32. copysign	0x98	[f32 f32] → [f32]	validation	execution, operator
f64. abs	0x99	[f64] → [f64]	validation	execution, operator
f64. neg	0x9A	[f64] → [f64]	validation	execution, operator
f64. ceil	0x9B	[f64] → [f64]	validation	execution, operator
f64. floor	0x9C	[f64] → [f64]	validation	execution, operator
f64. trunc	0x9D	[f64] → [f64]	validation	execution, operator
f64. nearest	0x9E	[f64] → [f64]	validation	execution, operator
f64. sqrt	0x9F	[f64] → [f64]	validation	execution, operator
f64. add	0xA0	[f64 f64] → [f64]	validation	execution, operator
f64. sub	0xA1	[f64 f64] → [f64]	validation	execution, operator
f64. mul	0xA2	[f64 f64] → [f64]	validation	execution, operator
f64. div	0xA3	[f64 f64] → [f64]	validation	execution, operator
f64. min	0xA4	[f64 f64] → [f64]	validation	execution, operator
f64. max	0xA5	[f64 f64] → [f64]	validation	execution, operator
f64. copysign	0xA6	[f64 f64] → [f64]	validation	execution, operator
i32. wrap/i64	0xA7	[i64] → [i32]	validation	execution, operator
i32. trunc_s/f32	0xA8	[f32] → [i32]	validation	execution, operator
i32. trunc_u/f32	0xA9	[f32] → [i32]	validation	execution, operator
i32. trunc_s/f64	OxAA	[f64] → [i32]	validation	execution, operator
i32. trunc_u/f64	OxAB	[f64] → [i32]	validation	execution, operator
i64. extend_s/i32	OxAC	[i32] → [i64]	validation	execution, operator
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Instruction	Binary Opcode	Туре	Validation	Execution
i64. trunc_s/f32	OxAE	[f32] → [i64]	validation	execution, operator
i64. trunc_u/f32	OxAF	[f32] → [i64]	validation	execution, operator
i64. trunc_s/f64	0xB0	[f64] → [i64]	validation	execution, operator
i64. trunc_u/f64	0xB1	[f64] → [i64]	validation	execution, operator
f32. convert_s/i32	0xB2	[i32] → [f32]	validation	execution, operator
f32. convert_u/i32	0xB3	[i32] → [f32]	validation	execution, operator
f32. convert_s/i64	0xB4	[i64] → [f32]	validation	execution, operator
f32. convert_u/i64	0xB5	[i64] → [f32]	validation	execution, operator
f32. demote/f64	0xB6	[f64] → [f32]	validation	execution, operator
f64. convert_s/i32	0xB7	[i32] → [f64]	validation	execution, operator
f64. convert_u/i32	0xB8	[i32] → [f64]	validation	execution, operator
f64. convert_s/i64	0xB9	[i64] → [f64]	validation	execution, operator
f64. convert_u/i64	0xBA	[i64] → [f64]	validation	execution, operator
f64. promote/f32	0xBB	[f32] → [f64]	validation	execution, operator
i32. reinterpret/f32	0xBC	[f32] → [i32]	validation	execution, operator
i64. reinterpret/f64	0xBD	[f64] → [i64]	validation	execution, operator
f32. reinterpret/i32	0xBE	[i32] → [f32]	validation	execution, operator
f64. reinterpret/i64	0xBF	[i64] → [f64]	validation	execution, operator