

0s: Stop and Arithmetic Operations			50s: Stack, Memory, Storage and Flow Operations			50s: Stack, Memory, Storage and Flow Operations (cont)			10s: Comparison & Bitwise Logic Operations (cont)		
0x00	STOP	Halts execution	0x50	POP	Remove item from stack	0x5a	GAS	Get the amount of available gas, including the corresponding reduction	0x19	NOT	Bitwise NOT operation
0x01	ADD	Addition operation	0x51	MLOAD	Load word from memory				0x1a	BYTE	Retrieve single byte from word
0x02	MUL	Multiplication operation	0x52	MSTORE	Save word to memory				<b>20s: SHA3</b>		
0x03	SUB	Subtraction operation	0x53	MSTORES	Save byte to memory				0x20	SHA3	Compute Keccak-256 hash
0x04	DIV	Integer division operation	0x54	SLOAD	Load word from storage	0x5b	JUMPDEST	Mark a valid destination for jumps	<b>60s &amp; 70s: Push Operations</b>		
0x05	SDIV	Signed integer division operation (truncated)	0x55	SSTORE	Save word to storage				0x60	PUSH1	Place 1-byte item on stack
0x06	MOD	Modulo remainder operation	0x56	JUMP	Alter the program counter	<b>10s: Comparison &amp; Bitwise Logic Operations</b>			0x61	PUSH2	Place 2-byte item on stack
0x07	SMOD	Signed Modulo remainder operation	0x57	JUMPI	Conditionally alter the program counter	0x10	LT	Less-than comparison	0x7f	PUSH32	Place 32-byte (full word) item on stack
0x08	ADDMOD	Modulo addition operation	0x58	PC	Get the value of the program counter prior to the increment corresponding to this instruction	0x11	GT	Greater-than comparison	<b>80s: Duplication Operations</b>		
0x09	MULMOD	Modulo multiplication operation				0x12	SLT	Signed less-than comparison	0x80	DUP1	Duplicate 1st stack item
0x0a	EXP	Exponential operation				0x13	SGT	Signed greater-than comparison	0x81	DUP2	Duplicate 2nd stack item
0x0b	SIGNEXTEND	Extend length of two's complement signed integer	0x59	MSIZE	Get the size of active memory in bytes	0x14	EQ	Equality comparison	0x8f	DUP16	Duplicate 16th stack item
						0x15	ISZERO	Simple not operator			
						0x16	AND	Bitwise AND operation			
						0x17	OR	Bitwise OR operation			
						0x18	XOR	Bitwise XOR operation			



90s: Exchange Operations		
0x90	SWAP1	Exchange 1st and 2nd stack items
0x91	SWAP2	Exchange 1st and 3rd stack items
0x9f	SWAP16	Exchange 1st and 17th stack items

30s: Environmental Information (cont)		
0x37	CALLDATACOPY	Copy input data in current environment to memory

0x38	CODESIZE	Get size of code running in current environment
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0x39	CODECOPY	Copy code running in current environment to memory
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0x3a	GASPRICE	Get price of gas in current environment
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0x3b	EXTCODESIZE	Get size of an account's code
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0x3c	EXTCODECOPY	Copy an account's code to memory
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### a0s: Logging Operations

0xa0	LOG0	Append log record with no topics
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0xa1	LOG1	Append log record with one topic
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0xa2	LOG2	Append log record with two topics
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### a0s: Logging Operations (cont)

0xa3	LOG3	Append log record with three topics
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0xa4	LOG4	Append log record with four topics
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### f0s: System operations

0xf0	CREATE	Create a new account with associated code
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0xf1	CALL	Message-call into an account
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0xf2	CALLCODE	Message-call into this account with an alternative account's code
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0xf3	RETURN	Halt execution returning output data
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0xf4	DELEGATECALL	Message-call into this account with an alternative account's code, but persisting the current values for sender and value
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0xfe	INVALID	Designated invalid instruction
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### f0s: System operations (cont)

0xff	SELFDESTRUCT	Halt execution and register account for later deletion
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### 40s: Block Information

0x40	BLOCKHASH	Get the hash of one of the 256 most recent complete blocks
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0x41	COINBASE	Get the block's beneficiary address
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0x42	TIMESTAMP	Get the block's timestamp
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0x43	NUMBER	Get the block's number
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0x44	DIFFICULTY	Get the block's difficulty
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0x45	GASLIMIT	Get the block's gas limit
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0x30	ADDRESS	Get address of currently executing account
0x31	BALANCE	Get balance of the given account
0x32	ORIGIN	Get execution origin-ation address
0x33	CALLER	Get caller address
0x34	CALLVALUE	Get deposited value by the instruction/transaction responsible for this execution
0x35	CALLDATALOAD	Get input data of current environment
0x36	CALLDATASIZE	Get size of input data in current environment



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