

EVM Version Information

You are asked to provide the EVM version the contract uses during the verification process. If the bytecode does not match the version, we try to verify using the latest EVM version.

For more information, see the [Solidity docs on specifying the EVM version when compiling a contract](#). Note that backward compatibility is not guaranteed between each version.

Name Date Mainnet Block # Relevant changes / opcode specs EIP details Homestead 14 Mar 2016 1,150,000 Oldest version <http://eips.ethereum.org/EIPS/eip-606> Tangerine Whistle 18 Oct 2016 2,463,000 Gas cost to access other accounts increased, impacts gas estimation and optimization.

All gas sent by default for external calls, previously a certain amount had to be retained <http://eips.ethereum.org/EIPS/eip-608> Spurious Dragon 22 Nov 2016 2,675,000 Gas cost for theexp opcode increased, impacts gas estimation and optimization. <http://eips.ethereum.org/EIPS/eip-607> Byzantium 16 Oct 2017 4,370,000 Opcodesreturndatacopy ,returndatasize andstaticcall available in assembly.staticcall opcode used when calling non-library view or pure functions, which prevents the functions from modifying state at the EVM level, this even applies to invalid type conversions.

Ability to access dynamic data returned from function calls.revert opcode introduced,revert() will not waste gas. <http://eips.ethereum.org/EIPS/eip-609> Constantinople / Petersburg 28 Feb 2019 7,280,000 Opcodescreate2 ,extcodehash ,shl ,shr andsar are available in assembly.

Bitwise shifting operators use shifting opcodes (shl ,shr ,sar), requiring less gas.<http://eips.ethereum.org/EIPS/eip-1013> Istanbul 08 Dec 2019 9,069,000 Opcodeschainid andselfbalance are available in assembly.

<https://eips.ethereum.org/EIPS/eip-1679> Berlin 14 Apr 2021 12,244,000 Gas costs forSLOAD ,CALL ,BALANCE ,EXT andSELFDESTRUCT increased. The compiler assumes cold gas costs for such operations. This is relevant for gas estimation and the optimizer. <https://eips.ethereum.org/EIPS/eip-2070> London 05 Aug 2021 [12,965,000](#) The block's base fee (EIP-3198 andEIP-1559) can be accessed via the globalblock.basefee orbasefee() in inline assembly. *EIP-1559 * EIP-3198 * EIP-3529 * EIP-3541 * EIP-3554 * Arrow Glacier 09 Aug 2021 [13,773,000](#) Delays the difficulty bomb until June 2022. <https://eips.ethereum.org/EIPS/eip-4345> Gray Glacier 30 June 2022 [15,050,000](#) Delays the difficulty bomb by an additional 3 months to September 2022. <https://eips.ethereum.org/EIPS/eip-5133> Paris (The Merge) 15 Sep 2022 15,537,394 Introducesprevrandao() andblock.prevrandao , and changes the semantics of the now deprecatedblock.difficulty , disallowingdifficulty() in inline assembly (seeEIP-4399). * EIP-3675 * EIP-4399 * Shanghai 12 Apr 2023 17,034,870 Smaller code size and gas savings due to the introduction ofpush0 (seeEIP-3855). * EIP-3651 * EIP-3855 * EIP-3860 * EIP-4895 * EIP-6049 * Cancun (in progress)* 13 Mar 2024 * Epoch number: 269,568 * Slot number: 8,626,176 * The block's blob base fee (EIP-7516 andEIP-4844) can be accessed via the globalblock.blobbasefee orblobbasefee() in inline assembly.

Introducesblobhash() in inline assembly and a corresponding global function to retrieve versioned hashes of blobs associated with the transaction (seeEIP-4844).

Opcodemcopy is available in assembly (seeEIP-5656).

Opcodestore andtload are available in assembly (seeEIP-1153). * EIP-1153 * EIP-4788 * EIP-4844 * EIP-5656 * EIP-6780 * EIP-7516 * *Does not impact version for contract verification.

**All dates are expected.

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