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 theSolidity 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 20161,150,000 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 13 Mar 2024 19,426,587 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).

Opcodeststore andtload are available in assembly (seeEIP-1153). * EIP-1153 * EIP-4788 * EIP-4844 * EIP-5656 * EIP-6780 * EIP-7516 *

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