

EIP 1052: EXTCODEHASH opcode

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: **Note:** The following is an excerpt from the official Ethereum site. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

Table 1: Data sheet for EXTCODEHASH opcode

Title	EXTCODEHASH opcode
EIP	1052
Author	<ul style="list-style-type: none">Nick Johnson arachnid@notdot.net,Paweł Bylica pawel@ethereum.org
Status	Final
Created	1018-05-02
Description	https://github.com/ethereum/EIPs/blob/master/EIPS/eip-1052.md
Specification	https://github.com/ethereum/EIPs/blob/master/EIPS/eip-1052.md#Specification
Category	Core

Abstract

This EIP specifies a new opcode, which returns the keccak256 hash of a contract's code.

Motivation

Many contracts need to perform checks on a contract's bytecode, but do not necessarily need the bytecode itself. For instance, a contract may want to check if another contract's bytecode is one of a set of permitted implementations, or it may perform analyses on code and whitelist any contract with matching bytecode if the analysis passes.

Contracts can presently do this using the **EXTCODECOPY (0x3c)** opcode, but this is expensive, especially for large contracts, in cases where only the hash is required. As a result, we propose a new opcode, **EXTCODEHASH**, which returns the keccak256 hash of a contract's bytecode.

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