Function selector

When a smart contract is called, the first 4 bytes of the calldata sent as part of the request are called the "function selector", and identify which function of the smart contract to call.

You can compute a specific function selector by using thefunction_selector! macro.

Here's an example that computes the selector of a function namedfoo :

note This code has yet to be audited. Please use at your own risk. function_selector! ("foo")

// returns 0xc2985578 Functions usually take a number of arguments that you need to pass in order for the call to be successful. For example, here's the signature of a function that takes 2 arguments, an address and a uint256:

function

transfer (address recipient ,

uint256 amount)

external

returns

(bool) ; To compute the selector for this function, pass the types of the arguments to thefunction_selector macro:

function_selector! ("transfer" ,

Address ,

U256)

// returns 0xa9059cbb function_selector will return a byte array containing the encoded function selector.

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