

trace namespace

trace_block

- Parameters
- Request
- Response
- numberOrTag
- :string
- (block number or hash or either of earliest
- , finalized
- , latest
- , pending
- , or safe
-) curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

'{ "jsonrpc": "2.0", "id": 0, "method": "trace_block", "params": [numberOrTag] }' { "jsonrpc" :

"2.0", "id" :

0 , "result" : result } result : array of object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string
- - error
- - :string
- - from
- - :string
- - (address)
- - gas
- - :string
- - (hex integer)
- - includeInTrace
- - :boolean
- - input
- - :string

- - (hex data)
- - isPrecompiled
- - :boolean
- - result
- - :object
- - - address
- - - :string
- - - (address)
- - - code
- - - :string
- - - (hex data)
- - - gasUsed
- - - :string
- - - (hex integer)
- - - output
- - - :string
- - - (hex data)
- - rewardType
- - :string
- - subtraces
- - : array ofobject
- - to
- - :string
- - (address)
- - traceAddress
- - : array ofstring
- - (hex integer)
- - type

- - :string
- - value
- - :string
- - (hex integer)
- blockHash
- :string
- (hash)
- blockNumber
- :string
- (hex integer)
- error
- :string
- result
- :object
- - address
- - :string
- - (address)
- - code
- - :string
- - (hex data)
- - gasUsed
- - :string
- - (hex integer)
- - output
- - :string
- - (hex data)
- subtraces
- :string
- (hex integer)
- traceAddress
- : array ofstring
- (hex integer)
- transactionHash
- :string
- (hash)
- transactionPosition
- :string
- (hex integer)
- type
- :string

trace_call

- Parameters
- Request
- Response
- call
- :object
- - accessList

- - : array ofobject
- - - address
- - - :string
- - - (address)
- - - storageKeys
- - - : array ofstring
- - - (hex integer)
- - blobVersionedHashes
- - : array ofstring
- - (hex data)
- - blockHash
- - :string
- - (hash)
- - blockNumber
- - :string
- - (hex integer)
- - chainId
- - :string
- - (hex integer)
- - data
- - :string
- - (hex data)
- - from
- - :string
- - (address)
- - gas
- - :string
- - (hex integer)
- - gasPrice
- - :string
- - (hex integer)

- - hash
- - :string
- - (hash)
- - input
- - :string
- - (hex data)
- - isSystemTx
- - :boolean
- - maxFeePerBlobGas
- - :string
- - (hex integer)
- - maxFeePerGas
- - :string
- - (hex integer)
- - maxPriorityFeePerGas
- - :string
- - (hex integer)
- - mint
- - :string
- - (hex integer)
- - nonce
- - :string
- - (hex integer)
- - r
- - :string
- - (hex integer)
- - s
- - :string
- - (hex integer)
- - sourceHash
- - :string
- - (hash)
- - to
- - :string

- - (address)
- - transactionIndex
- - :string
- - (hex integer)
- - type
- - :integer
- - v
- - :string
- - (hex integer)
- - value
- - :string
- - (hex integer)
- - yParity
- - :string
- - (hex integer)
- traceTypes
- : array ofstring
- blockParameter
- :string
- (block number or hash or either ofearliest
- ,finalized
- ,latest
- ,pending
- , orsafe
-) curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

'{ "jsonrpc": "2.0", "id": 0, "method": "trace_call", "params": [call, traceTypes, blockParameter] }' { "jsonrpc" :

"2.0", "id" :

0 , "result" : result } result :object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string
- - error

- - :string
- - from
- - :string
- - (address)
- - gas
- - :string
- - (hex integer)
- - includeInTrace
- - :boolean
- - input
- - :string
- - (hex data)
- - isPrecompiled
- - :boolean
- - result
- - :object
- - - address
- - - :string
- - - (address)
- - - code
- - - :string
- - - (hex data)
- - - gasUsed
- - - :string
- - - (hex integer)
- - - output
- - - :string
- - - (hex data)

- - rewardType
- - :string
- - subtraces
- - : array ofobject
- - to
- - :string
- - (address)
- - traceAddress
- - : array ofstring
- - (hex integer)
- - type
- - :string
- - value
- - :string
- - (hex integer)
- output
- :string
- (hex data)
- stateChanges
- : map ofobject
- - balance
- - :object
- - - after
- - - :string
- - - (hex integer)
- - - before
- - - :string
- - - (hex integer)
- - code
- - :object
- - - after
- - - :string
-

- - (hex data)
-
- - before
-
- - :string
-
- - (hex data)
-
- nonce
-
- :object
-
- - after
-
- - :string
-
- - (hex integer)
-
- - before
-
- - :string
-
- - (hex integer)
-
- storage
-
- : map ofobject
-
- - after
-
- - :string
-
- - (hex data)
-
- - before
-
- - :string
-
- - (hex data)
- transactionHash
- :string
- (hash)
- vmTrace
- :object
-
- code
-
- :string
-
- (hex data)
-
- operations

- - : array of object
- - - cost
- - - :string
- - - (hex integer)
- - - memory
- - - :object
- - - - data
- - - - :string
- - - - (hex data)
- - - - offset
- - - - :string
- - - - (hex integer)
- - - pc
- - - :string
- - - (hex integer)
- - - push
- - - : array of string
- - - (hex data)
- - - store
- - - :object
- - -

- key
- -
 - :string
- -
 - (hex data)
- -
 - value
- -
 - :string
- -
 - (hex data)
- - sub
- - :object
- - used
- - :string
- - (hex integer)

trace_filter

- Parameters
- Request
- Response
- traceFilterForRpc
- :object
- after
- :string
- (hex integer)
- count
- :string
- (hex integer)
- fromAddress
- : array ofstring
- (address)
- fromBlock
- :string

- - (block number or hash or either of earliest
- - ,finalized
- - ,latest
- - ,pending
- - , orsafe
- -)
- - toAddress
- - : array of string
- - (address)
- - toBlock
- - :string
- - (block number or hash or either of earliest
- - ,finalized
- - ,latest
- - ,pending
- - , orsafe
- -) curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

'{ "jsonrpc": "2.0", "id": 0, "method": "trace_filter", "params": [traceFilterForRpc] }' { "jsonrpc" :

"2.0", "id" :

0 , "result" : result } result : array of object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string
- - error
- - :string
- - from
- - :string

- - (address)
- - gas
- - :string
- - (hex integer)
- - includeInTrace
- - :boolean
- - input
- - :string
- - (hex data)
- - isPrecompiled
- - :boolean
- - result
- - :object
- - - address
- - - :string
- - - (address)
- - - code
- - - :string
- - - (hex data)
- - - gasUsed
- - - :string
- - - (hex integer)
- - - output
- - - :string
- - - (hex data)
- - rewardType
- - :string
- - subtraces

- - : array ofobject
- - to
- - :string
- - (address)
- - traceAddress
- - : array ofstring
- - (hex integer)
- - type
- - :string
- - value
- - :string
- - (hex integer)
- blockHash
- :string
- (hash)
- blockNumber
- :string
- (hex integer)
- error
- :string
- result
- :object
- - address
- - :string
- - (address)
- - code
- - :string
- - (hex data)
- - gasUsed
- - :string
- - (hex integer)
- - output
- - :string
- - (hex data)
- subtraces
- :string
- (hex integer)
- traceAddress
- : array ofstring
- (hex integer)
- transactionHash
- :string
- (hash)
- transactionPosition

- :string
- (hex integer)
- type
- :string

trace_rawTransaction

Traces a call to eth_sendRawTransaction without making the call, returning the traces

- Parameters
- Request
- Response
- data
 - :string
 - (hex data)
 - traceTypes
 - : array ofstring curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

{ "jsonrpc": "2.0", "id": 0, "method": "trace_rawTransaction", "params": [data, traceTypes] } { "jsonrpc" :

"2.0" , "id" :

0 , "result" : result } result :object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string
- - error
- - :string
- - from
- - :string
- - (address)
- - gas
- - :string
- - (hex integer)
- - includeInTrace
- - :boolean
- - input
-

- :string
-
- (hex data)
-
- isPrecompiled
-
- :boolean
-
- result
-
- :object
-
- - address
-
- - :string
-
- - (address)
-
- - code
-
- - :string
-
- - (hex data)
-
- - gasUsed
-
- - :string
-
- - (hex integer)
-
- - output
-
- - :string
-
- - (hex data)
-
- rewardType
-
- :string
-
- subtraces
-
- : array ofobject
-
- to
-
- :string
-
- (address)
-
- traceAddress
-
- : array ofstring
-
- (hex integer)
-

- type
-
- :string
-
- value
-
- :string
-
- (hex integer)
- output
- :string
- (hex data)
- stateChanges
- : map ofobject
-
- balance
-
- :object
-
- - after
-
- - :string
-
- - (hex integer)
-
- - before
-
- - :string
-
- - (hex integer)
-
- code
-
- :object
-
- - after
-
- - :string
-
- - (hex data)
-
- - before
-
- - :string
-
- - (hex data)
-
- nonce
-
- :object
-
- - after
-
- - :string

- - - (hex integer)
- - - before
- - - :string
- - - (hex integer)
- - storage
- - : map ofobject
- - - after
- - - :string
- - - (hex data)
- - - before
- - - :string
- - - (hex data)
- transactionHash
- :string
- (hash)
- vmTrace
- :object
- - code
- - :string
- - (hex data)
- - operations
- - : array ofobject
- - - cost
- - - :string
- - - (hex integer)
- - - memory
- - - :object
- - - - data

- - - - :string
- - - - (hex data)
- - - - offset
- - - - :string
- - - - (hex integer)
- - - - pc
- - - - :string
- - - - (hex integer)
- - - - push
- - - - : array ofstring
- - - - (hex data)
- - - - store
- - - - :object
- - - - - key
- - - - - :string
- - - - - (hex data)
- - - - - value
- - - - - :string
- - - - - (hex data)

- - - sub
- - - :object
- - - used
- - - :string
- - - (hex integer)

trace_replayBlockTransactions

- Parameters
- Request
- Response
- blockParameter
- :string
- (block number or hash or either of earliest
- ,finalized
- ,latest
- ,pending
- , orsafe
-)
- traceTypes
- : array of string curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

{ "jsonrpc": "2.0", "id": 0, "method": "trace_replayBlockTransactions", "params": [blockParameter, traceTypes] } { "jsonrpc" :

"2.0", "id" :

0 , "result" : result } result : array of object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string
- - error
- - :string
- - from
- - :string
-

- (address)
-
- gas
-
- :string
-
- (hex integer)
-
- includeInTrace
-
- :boolean
-
- input
-
- :string
-
- (hex data)
-
- isPrecompiled
-
- :boolean
-
- result
-
- :object
-
- - address
-
- - :string
-
- - (address)
-
- - code
-
- - :string
-
- - (hex data)
-
- - gasUsed
-
- - :string
-
- - (hex integer)
-
- - output
-
- - :string
-
- - (hex data)
-
- rewardType
-
- :string
-
- subtraces
-

- : array ofobject
-
- to
-
- :string
-
- (address)
-
- traceAddress
-
- : array ofstring
-
- (hex integer)
-
- type
-
- :string
-
- value
-
- :string
-
- (hex integer)
- output
- :string
- (hex data)
- stateChanges
- : map ofobject
-
- balance
-
- :object
-
-
- after
-
-
- :string
-
-
- (hex integer)
-
-
- before
-
-
- :string
-
-
- (hex integer)
-
- code
-
- :object
-
-
- after
-
-
- :string
-
-
- (hex data)
-
-
- before
-
-

- :string
- - - (hex data)
- - nonce
- - :object
- - - after
- - - :string
- - - (hex integer)
- - - before
- - - :string
- - - (hex integer)
- - storage
- - : map ofobject
- - - after
- - - :string
- - - (hex data)
- - - before
- - - :string
- - - (hex data)
- transactionHash
- :string
- (hash)
- vmTrace
- :object
- - code
- - :string
- - (hex data)
- - operations
- - : array ofobject
- - - cost
- -

- :string
- -
 - (hex integer)
- -
 - memory
- -
 - :object
- -
 - - data
- -
 - - :string
- -
 - - (hex data)
- -
 - - offset
- -
 - - :string
- -
 - - (hex integer)
- -
 - pc
- -
 - :string
- -
 - (hex integer)
- -
 - push
- -
 - : array ofstring
- -
 - (hex data)
- -
 - store
- -
 - :object
- -
 - - key
- -
 - - :string
- -

- (hex data)
- - value
- - :string
- - (hex data)
- - sub
- - :object
- - used
- - :string
- - (hex integer)

trace_replayTransaction

- Parameters
- Request
- Response
- txHash
- :string
- (hash)
- traceTypes
- : array ofstring curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

{ "jsonrpc": "2.0", "id": 0, "method": "trace_replayTransaction", "params": [txHash, traceTypes] } { "jsonrpc" :

"2.0", "id" :

0 , "result" : result } result :object

- action
- :object
- - author
- - :string
- - (address)
- - callType
- - :string
- - creationMethod
- - :string

- - error
- - :string
- - from
- - :string
- - (address)
- - gas
- - :string
- - (hex integer)
- - includeInTrace
- - :boolean
- - input
- - :string
- - (hex data)
- - isPrecompiled
- - :boolean
- - result
- - :object
- - - address
- - - :string
- - - (address)
- - - code
- - - :string
- - - (hex data)
- - - gasUsed
- - - :string
- - - (hex integer)
- - - output
- - - :string
-

- - (hex data)
-
- rewardType
-
- :string
-
- subtraces
-
- : array ofobject
-
- to
-
- :string
-
- (address)
-
- traceAddress
-
- : array ofstring
-
- (hex integer)
-
- type
-
- :string
-
- value
-
- :string
-
- (hex integer)
- output
- :string
- (hex data)
- stateChanges
- : map ofobject
-
- balance
-
- :object
-
- - after
-
- - :string
-
- - (hex integer)
-
- - before
-
- - :string
-
- - (hex integer)
-
- code
-
- :object
-
- - after
-
-

- :string
- - - (hex data)
- - - before
- - - :string
- - - (hex data)
- - nonce
- - :object
- - - after
- - - :string
- - - (hex integer)
- - - before
- - - :string
- - - (hex integer)
- - storage
- - : map of object
- - - after
- - - :string
- - - (hex data)
- - - before
- - - :string
- - - (hex data)
- transactionHash
- :string
- (hash)
- vmTrace
- :object
- - code
- - :string
- - (hex data)

- - operations
- - : array ofobject
- - - cost
- - - :string
- - - (hex integer)
- - - memory
- - - :object
- - - - data
- - - - :string
- - - - (hex data)
- - - - offset
- - - - :string
- - - - (hex integer)
- - - pc
- - - :string
- - - (hex integer)
- - - push
- - - : array ofstring
- - - (hex data)
- - - store
- - - :object
-

- - key
- - - :string
- - - (hex data)
- - - value
- - - :string
- - - (hex data)
- - - sub
- - - :object
- - - used
- - - :string
- - - (hex integer)

trace_transaction

- Parameters
- Request
- Response
- txHash
- :string
- (hash) curl localhost:8545 \ -X POST \ -H

"Content-Type: application/json"

\ --data

'{ "jsonrpc": "2.0", "id": 0, "method": "trace_transaction", "params": [txHash] }' { "jsonrpc" :

"2.0" , "id" :

0 , "result" : result } result : array of object

- action
- :object
- - author
- - :string
- - (address)
-

- callType
-
- :string
-
- creationMethod
-
- :string
-
- error
-
- :string
-
- from
-
- :string
-
- (address)
-
- gas
-
- :string
-
- (hex integer)
-
- includeInTrace
-
- :boolean
-
- input
-
- :string
-
- (hex data)
-
- isPrecompiled
-
- :boolean
-
- result
-
- :object
-
- - address
-
- - :string
-
- - (address)
-
- - code
-
- - :string
-
- - (hex data)
-
- - gasUsed
-
- - :string
-
- - (hex integer)

- - - output
- - - :string
- - - (hex data)
- - rewardType
- - :string
- - subtraces
- - : array ofobject
- - to
- - :string
- - (address)
- - traceAddress
- - : array ofstring
- - (hex integer)
- - type
- - :string
- - value
- - :string
- - (hex integer)
- blockHash
- :string
- (hash)
- blockNumber
- :string
- (hex integer)
- error
- :string
- result
- :object
- - address
- - :string
- - (address)
- - code
- - :string
- - (hex data)
- - gasUsed
- - :string
- - (hex integer)
-

- output
- - :string
- - (hex data)
- subtraces
- :string
- (hex integer)
- traceAddress
- : array ofstring
- (hex integer)
- transactionHash
- :string
- (hash)
- transactionPosition
- :string
- (hex integer)
- type
- :string [Edit this page](#) Last updated on Feb 17, 2024 [Previous proof](#) [Next txpool](#)