debug_traceBlockByNumber

Returns tracing results by executing all transactions in the specified block number.

Parameters

- blockNumber
- : (string)[required]
- block number as a hexidecimal string, or one of the string tagslatest
- ,earliest
- , orpending
- , as[described in the default block parameters](#)
- .
- Optional tracing options object with the following fields:* tracer
  - : (string)[optional]
  - type of tracer. Supports[callTracer](#)
  - or[prestateTracer](#)
  - .
  - tracerConfig
  - : (object)[optional]
  - tracer configuration options:* onlyTopCall
    - : (boolean)[optional]
    - whentrue
    - , will only trace the primary (top-level) call and not any
    - sub-calls. It eliminates the additional processing for each call frame.

Returns

Depending on the specified tracer type, returns a[callTracer](#) object or[prestateTracer](#) object.

Example

ReplaceYOUR-API-KEY with an API key from your[Infura dashboard](#) .

Request

- cURL

```
curl https://mantle-mainnet.infura.io/v3/ \ -X POST \ -H "Content-Type: application/json" \ -d
'{"method":"debug_traceBlockByNumber","params":["0x4d0c", {"tracer": "callTracer"}],"id":1,"jsonrpc":"2.0"}'
```

Result

```
{ "jsonrpc": "2.0", "id": 1, "result": [ { "result": { "from": "0xa5ba45f484bc67fe293cf01f7d92d5ba3514dd42", "gas": "0x5208",
"gasUsed": "0x5208", "input": "0x", "to": "0x45a318273749d6eb00f5f6ca3bc7cd3de26d642a", "type": "CALL", "value":
"0x2ca186f5fda8004" } }, { "result": { "from": "0x25f2650cc9e8ad863bf5da6a7598e24271574e29", "gas": "0xfe0e",
"gasUsed": "0xafee", "input": "0xd0e30db0", "to": "0xe5d7c2a44ffddf6b295a15c148167daaaf5cf34f", "type": "CALL", "value":
"0x2386f26fc10000" } }, ... ] }
```