

# debug\_traceBlockByNumber

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

## Parameters

- blockNumber
- : (string)[required]
- block number as a hexadecimal string, or one of the string tags latest
- , earliest
- , or pending
- , 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]
- - - when true
- - - , 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

### Request

- cURL
- WSS

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

Last updated on Apr 19, 2024 [Previous debug\\_traceBlockByHash](#) [Next debug\\_traceTransaction](#)

