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Go Report Card

github.com/ethereum/go-ethereum

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# Report for github.com/ethereum/go-ethereum

(v1.10.26)

# A+

Excellent!

Found **191** issues across **1156** files

go report **A+**

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Results	Image URL <code>https://goreportcard.com/badge/github.com/ethereum</code>
go_vet <b>100%</b>	Markdown <code>[[Go Report Card]](https://goreportcard.com/badge/gi</code>
gofmt <b>99%</b>	
ineffassign <b>100%</b>	
gocyclo <b>84%</b>	
license <b>100%</b>	
misspell <b>100%</b>	

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## go\_vet

# 100%

`go vet` examines Go source code and reports suspicious constructs, such as Printf calls whose arguments do not align with the format string.

**No problems detected. Good job!**

---

## gofmt

**99%**

Gofmt formats Go programs. We run `gofmt -s` on your code, where `-s` is for the "simplify" command

[crypto/secp256k1/libsecp256k1/src/modules/recovery/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/contrib/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/include/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/src/modules/ecdh/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/src/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

[crypto/secp256k1/libsecp256k1/src/modules/dummy.go](#)

Line 1: warning: file is not gofmted with -s (gofmt)

---

## ineffassign

**100%**

`IneffAssign` detects ineffectual assignments in Go code.

**No problems detected. Good job!**

---

# gocyclo

**84%**

**Gocyclo** calculates cyclomatic complexities of functions in Go source code. The cyclomatic complexity of a function is calculated according to the following rules: 1 is the base complexity of a function +1 for each 'if', 'for', 'case', '&&' or '||' Go Report Card warns on functions with cyclomatic complexity > 15.

## les/downloader/downloader.go

**Line 1503:** warning: cyclomatic complexity 42 of function (\*Downloader).processHeaders() is high (> 15) (gocyclo)

**Line 991:** warning: cyclomatic complexity 42 of function (\*Downloader).fetchHeaders() is high (> 15) (gocyclo)

**Line 1329:** warning: cyclomatic complexity 40 of function (\*Downloader).fetchParts() is high (> 15) (gocyclo)

**Line 434:** warning: cyclomatic complexity 26 of function (\*Downloader).syncWithPeer() is high (> 15) (gocyclo)

**Line 1730:** warning: cyclomatic complexity 22 of function (\*Downloader).processFastSyncContent() is high (> 15) (gocyclo)

**Line 816:** warning: cyclomatic complexity 19 of function (\*Downloader).findAncestorSpanSearch() is high (> 15) (gocyclo)

**Line 630:** warning: cyclomatic complexity 18 of function (\*Downloader).fetchHead() is high (> 15) (gocyclo)

**Line 900:** warning: cyclomatic complexity 16 of function (\*Downloader).findAncestorBinarySearch() is high (> 15) (gocyclo)

## core/bloombits/matcher.go

**Line 259:** warning: cyclomatic complexity 30 of function (\*Matcher).subMatch() is high (> 15) (gocyclo)

**Line 381:** warning: cyclomatic complexity 23 of function (\*Matcher).distributor() is high (> 15) (gocyclo)

## les/sync.go

**Line 91:** warning: cyclomatic complexity 23 of function (\*clientHandler).synchronise() is high (> 15) (gocyclo)

## crypto/blake2b/blake2b\_test.go

**Line 146:** warning: cyclomatic complexity 18 of function testHashes2X() is high (> 15) (gocyclo)

## core/chain\_indexer.go

[Line 304](#): warning: cyclomatic complexity 18 of function (\*ChainIndexer).updateLoop() is high (> 15) (gocyclo)

#### [les/downloader/downloader\\_test.go](#)

[Line 975](#): warning: cyclomatic complexity 16 of function testInvalidHeaderRollback() is high (> 15) (gocyclo)

#### [les/fetcher/block\\_fetcher.go](#)

[Line 335](#): warning: cyclomatic complexity 86 of function (\*BlockFetcher).loop() is high (> 15) (gocyclo)

#### [core/rawdb/freezer\\_table.go](#)

[Line 210](#): warning: cyclomatic complexity 25 of function (\*freezerTable).repair() is high (> 15) (gocyclo)

[Line 730](#): warning: cyclomatic complexity 22 of function (\*freezerTable).retrieveItems() is high (> 15) (gocyclo)

[Line 455](#): warning: cyclomatic complexity 17 of function (\*freezerTable).truncateTail() is high (> 15) (gocyclo)

#### [p2p/discover/v4\\_udp.go](#)

[Line 407](#): warning: cyclomatic complexity 22 of function (\*UDPv4).loop() is high (> 15) (gocyclo)

#### [core/state/snapshot/conversion.go](#)

[Line 245](#): warning: cyclomatic complexity 22 of function generateTrieRoot() is high (> 15) (gocyclo)

#### [p2p/simulations/network.go](#)

[Line 944](#): warning: cyclomatic complexity 21 of function (\*Network).Load() is high (> 15) (gocyclo)

#### [eth/downloader/downloader.go](#)

[Line 1252](#): warning: cyclomatic complexity 53 of function (\*Downloader).processHeaders() is high (> 15) (gocyclo)

[Line 989](#): warning: cyclomatic complexity 45 of function (\*Downloader).fetchHeaders() is high (> 15) (gocyclo)

[Line 448](#): warning: cyclomatic complexity 36 of function (\*Downloader).syncWithPeer() is high (> 15) (gocyclo)

[Line 1576](#): warning: cyclomatic complexity 22 of function (\*Downloader).processSnapSyncContent() is high (> 15) (gocyclo)

#### [les/fetcher.go](#)

[Line 257](#): warning: cyclomatic complexity 50 of function (\*lightFetcher).mainloop() is high (> 15) (gocyclo)

[accounts/abi/unpack\\_test.go](#)

Line 526: warning: cyclomatic complexity 36 of function TestUnmarshal() is high (> 15) (gocyclo)

[cmd/puppeth/wizard\\_dashboard.go](#)

Line 27: warning: cyclomatic complexity 30 of function (\*wizard).deployDashboard() is high (> 15) (gocyclo)

[accounts/abi/abi\\_test.go](#)

Line 875: warning: cyclomatic complexity 19 of function TestUnpackIntoMapNamingConflict() is high (> 15) (gocyclo)

[core/blockchain.go](#)

Line 1452: warning: cyclomatic complexity 55 of function (\*BlockChain).insertChain() is high (> 15) (gocyclo)

Line 950: warning: cyclomatic complexity 53 of function (\*BlockChain).InsertReceiptChain() is high (> 15) (gocyclo)

Line 221: warning: cyclomatic complexity 35 of function NewBlockChain() is high (> 15) (gocyclo)

Line 2001: warning: cyclomatic complexity 33 of function (\*BlockChain).reorg() is high (> 15) (gocyclo)

Line 541: warning: cyclomatic complexity 31 of function (\*BlockChain).setHeadBeyondRoot() is high (> 15) (gocyclo)

Line 1790: warning: cyclomatic complexity 22 of function (\*BlockChain).insertSideChain() is high (> 15) (gocyclo)

Line 2284: warning: cyclomatic complexity 19 of function (\*BlockChain).maintainTxIndex() is high (> 15) (gocyclo)

[les/downloader/queue\\_test.go](#)

Line 93: warning: cyclomatic complexity 21 of function TestBasics() is high (> 15) (gocyclo)

[console/bridge.go](#)

Line 102: warning: cyclomatic complexity 22 of function (\*bridge).OpenWallet() is high (> 15) (gocyclo)

[cmd/devp2p/internal/ethtest/transaction.go](#)

Line 58: warning: cyclomatic complexity 18 of function sendSuccessfulTx() is high (> 15) (gocyclo)

[eth/fetcher/tx\\_fetcher.go](#)

Line 345: warning: cyclomatic complexity 76 of function (\*TxFetcher).loop() is high (> 15) (gocyclo)

[cmd/utills/flags.go](#)

[Line 1728](#): warning: cyclomatic complexity 66 of function SetEthConfig() is high (> 15) (gocyclo)

[Line 1382](#): warning: cyclomatic complexity 23 of function SetP2PConfig() is high (> 15) (gocyclo)

#### [tests/fuzzers/txfetcher/txfetcher\\_fuzzer.go](#)

[Line 51](#): warning: cyclomatic complexity 33 of function Fuzz() is high (> 15) (gocyclo)

#### [core/tx\\_pool\\_test.go](#)

[Line 951](#): warning: cyclomatic complexity 29 of function testTransactionQueueTimeLimiting() is high (> 15) (gocyclo)

[Line 649](#): warning: cyclomatic complexity 28 of function TestTransactionPostponing() is high (> 15) (gocyclo)

[Line 1446](#): warning: cyclomatic complexity 24 of function TestTransactionPoolRepricingDynamicFee() is high (> 15) (gocyclo)

[Line 1322](#): warning: cyclomatic complexity 24 of function TestTransactionPoolRepricing() is high (> 15) (gocyclo)

[Line 1818](#): warning: cyclomatic complexity 20 of function TestTransactionPoolUnderpricingDynamicFee() is high (> 15) (gocyclo)

[Line 1643](#): warning: cyclomatic complexity 20 of function TestTransactionPoolUnderpricing() is high (> 15) (gocyclo)

[Line 545](#): warning: cyclomatic complexity 19 of function TestTransactionDropping() is high (> 15) (gocyclo)

[Line 2240](#): warning: cyclomatic complexity 19 of function testTransactionJournaling() is high (> 15) (gocyclo)

[Line 1981](#): warning: cyclomatic complexity 17 of function TestTransactionDeduplication() is high (> 15) (gocyclo)

[Line 2127](#): warning: cyclomatic complexity 17 of function TestTransactionReplacementDynamicFee() is high (> 15) (gocyclo)

[Line 2047](#): warning: cyclomatic complexity 17 of function TestTransactionReplacement() is high (> 15) (gocyclo)

#### [eth/state\\_accessor.go](#)

[Line 48](#): warning: cyclomatic complexity 23 of function (\*Ethereum).StateAtBlock() is high (> 15) (gocyclo)

#### [ethdb/dbtest/testsuite.go](#)

[Line 30](#): warning: cyclomatic complexity 62 of function TestDatabaseSuite() is high (> 15) (gocyclo)

#### [eth/gasprice/feehistory.go](#)

[Line 217](#): warning: cyclomatic complexity 31 of function (\*Oracle).FeeHistory() is high (> 15) (gocyclo)

#### [cmd/utills/cmd.go](#)

[Line 387](#): warning: cyclomatic complexity 24 of function ImportLDBData() is high (> 15) (gocyclo)

[Line 138](#): warning: cyclomatic complexity 16 of function ImportChain() is high (> 15) (gocyclo)

#### [consensus/clique/clique.go](#)

[Line 246](#): warning: cyclomatic complexity 23 of function (\*Clique).verifyHeader() is high (> 15) (gocyclo)

[Line 369](#): warning: cyclomatic complexity 21 of function (\*Clique).snapshot() is high (> 15) (gocyclo)

[Line 313](#): warning: cyclomatic complexity 16 of function (\*Clique).verifyCascadingFields() is high (> 15) (gocyclo)

#### [accounts/abi/reflect.go](#)

[Line 179](#): warning: cyclomatic complexity 17 of function mapArgNamesToStructFields() is high (> 15) (gocyclo)

#### [signer/core/apitypes/types.go](#)

[Line 717](#): warning: cyclomatic complexity 105 of function isPrimitiveTypeValid() is high (> 15) (gocyclo)

[Line 490](#): warning: cyclomatic complexity 20 of function (\*TypedData).EncodePrimitiveValue() is high (> 15) (gocyclo)

#### [p2p/simulations/network\\_test.go](#)

[Line 38](#): warning: cyclomatic complexity 49 of function TestSnapshot() is high (> 15) (gocyclo)

[Line 287](#): warning: cyclomatic complexity 19 of function TestNetworkSimulation() is high (> 15) (gocyclo)

#### [p2p/simulations/mocker\\_test.go](#)

[Line 33](#): warning: cyclomatic complexity 25 of function TestMocker() is high (> 15) (gocyclo)

#### [accounts/abi/bind/backends/simulated.go](#)

[Line 495](#): warning: cyclomatic complexity 24 of function (\*SimulatedBackend).EstimateGas() is high (> 15) (gocyclo)

#### [core/state/statedb.go](#)

[Line 898](#): warning: cyclomatic complexity 23 of function (\*StateDB).Commit() is high (> 15) (gocyclo)

[Line 645](#): warning: cyclomatic complexity 16 of function (\*StateDB).Copy() is high (> 15) (gocyclo)

[p2p/enr/enr.go](#)

Line 198: warning: cyclomatic complexity 16 of function decodeRecord() is high (> 15) (gocyclo)

[les/distributor.go](#)

Line 192: warning: cyclomatic complexity 18 of function (\*requestDistributor).nextRequest() is high (> 15) (gocyclo)

[cmd/checkpoint-admin/exec.go](#)

Line 125: warning: cyclomatic complexity 18 of function sign() is high (> 15) (gocyclo)

[les/vflux/server/clientpool.go](#)

Line 84: warning: cyclomatic complexity 18 of function NewClientPool() is high (> 15) (gocyclo)

[cmd/clef/main.go](#)

Line 489: warning: cyclomatic complexity 18 of function signer() is high (> 15) (gocyclo)

[console/console.go](#)

Line 412: warning: cyclomatic complexity 18 of function (\*Console).Interactive() is high (> 15) (gocyclo)

[eth/tracers/js/goja.go](#)

Line 366: warning: cyclomatic complexity 19 of function (\*jsTracer).setBuiltinFunctions() is high (> 15) (gocyclo)

[core/blockchain\\_repair\\_test.go](#)

Line 1751: warning: cyclomatic complexity 19 of function testRepair() is high (> 15) (gocyclo)

Line 1876: warning: cyclomatic complexity 18 of function TestIssue23496() is high (> 15) (gocyclo)

[miner/stress/cliq/main.go](#)

Line 46: warning: cyclomatic complexity 17 of function main() is high (> 15) (gocyclo)

[cmd/faucet/faucet.go](#)

Line 316: warning: cyclomatic complexity 42 of function (\*faucet).apiHandler() is high (> 15) (gocyclo)

Line 104: warning: cyclomatic complexity 17 of function main() is high (> 15) (gocyclo)

[build/ci.go](#)

Line 485: warning: cyclomatic complexity 32 of function doDocker() is high (> 15) (gocyclo)

[consensus/cliq/snapshot.go](#)

Line 185: warning: cyclomatic complexity 27 of function (\*Snapshot).apply() is high (> 15) (gocyclo)



[consensus/cliq/snapshot\\_test.go](#)

Line 100: warning: cyclomatic complexity 27 of function TestCliq() is high (> 15) (gocyclo)

[eth/protocols/snap/handler.go](#)

Line 131: warning: cyclomatic complexity 26 of function HandleMessage() is high (> 15) (gocyclo)

Line 341: warning: cyclomatic complexity 22 of function ServiceGetStorageRangesQuery() is high (> 15) (gocyclo)

Line 483: warning: cyclomatic complexity 19 of function ServiceGetTrieNodesQuery() is high (> 15) (gocyclo)

[core/types/transaction\\_marshallig.go](#)

Line 102: warning: cyclomatic complexity 49 of function (\*Transaction).UnmarshalJSON() is high (> 15) (gocyclo)

[eth/downloader/skeleton.go](#)

Line 879: warning: cyclomatic complexity 27 of function (\*skeleton).processResponse() is high (> 15) (gocyclo)

Line 339: warning: cyclomatic complexity 23 of function (\*skeleton).sync() is high (> 15) (gocyclo)

Line 715: warning: cyclomatic complexity 16 of function (\*skeleton).executeTask() is high (> 15) (gocyclo)

[cmd/puppeth/wizard\\_ethstats.go](#)

Line 28: warning: cyclomatic complexity 19 of function (\*wizard).deployEthstats() is high (> 15) (gocyclo)

[accounts/abi/unpack.go](#)

Line 192: warning: cyclomatic complexity 19 of function toGoType() is high (> 15) (gocyclo)

[internal/jsre/pretty.go](#)

Line 122: warning: cyclomatic complexity 17 of function (ppctx).printObject() is high (> 15) (gocyclo)

[consensus/ethash/sealer.go](#)

Line 267: warning: cyclomatic complexity 17 of function (\*remoteSealer).loop() is high (> 15) (gocyclo)

Line 51: warning: cyclomatic complexity 16 of function (\*Ethash).Seal() is high (> 15) (gocyclo)

[eth/filters/filter\\_test.go](#)

Line 102: warning: cyclomatic complexity 17 of function TestFilters() is high (> 15) (gocyclo)

[cmd/puppeth/wizard\\_netstats.go](#)

[Line 193](#): warning: cyclomatic complexity 28 of function (serverStats).render() is high (> 15) (gocyclo)

[Line 73](#): warning: cyclomatic complexity 21 of function (\*wizard).gatherStats() is high (> 15) (gocyclo)

#### [core/state/statedb\\_test.go](#)

[Line 744](#): warning: cyclomatic complexity 28 of function TestStateDBAccessList() is high (> 15) (gocyclo)

[Line 582](#): warning: cyclomatic complexity 21 of function TestCopyCopyCommitCopy() is high (> 15) (gocyclo)

[Line 510](#): warning: cyclomatic complexity 17 of function TestCopyCommitCopy() is high (> 15) (gocyclo)

#### [node/node.go](#)

[Line 383](#): warning: cyclomatic complexity 21 of function (\*Node).startRPC() is high (> 15) (gocyclo)

#### [miner/worker\\_test.go](#)

[Line 544](#): warning: cyclomatic complexity 19 of function testGetSealingWork() is high (> 15) (gocyclo)

[Line 443](#): warning: cyclomatic complexity 16 of function testAdjustInterval() is high (> 15) (gocyclo)

#### [internal/jsre/jsre.go](#)

[Line 107](#): warning: cyclomatic complexity 19 of function (\*JSRE).runEventLoop() is high (> 15) (gocyclo)

#### [cmd/puppeth/wizard\\_intro.go](#)

[Line 43](#): warning: cyclomatic complexity 26 of function (\*wizard).run() is high (> 15) (gocyclo)

#### [cmd/geth/snapshot.go](#)

[Line 333](#): warning: cyclomatic complexity 24 of function traverseRawState() is high (> 15) (gocyclo)

[Line 244](#): warning: cyclomatic complexity 16 of function traverseState() is high (> 15) (gocyclo)

#### [cmd/evm/internal/t8ntool/execution.go](#)

[Line 100](#): warning: cyclomatic complexity 19 of function (\*Prestate).Apply() is high (> 15) (gocyclo)

#### [tests/fuzzers/rangeproof/rangeproof-fuzzer.go](#)

[Line 94](#): warning: cyclomatic complexity 19 of function (\*fuzzer).fuzz() is high (> 15) (gocyclo)

#### [accounts/abi/topics.go](#)

[Line 31](#): warning: cyclomatic complexity 20 of function MakeTopics() is high (> 15) (gocyclo)

#### [miner/stress/beacon/main.go](#)

Line 274: warning: cyclomatic complexity 19 of function (\*nodeManager).run() is high (> 15) (gocyclo)

#### [cmd/evm/staterunner.go](#)

Line 51: warning: cyclomatic complexity 16 of function stateTestCmd() is high (> 15) (gocyclo)

#### [eth/tracers/api.go](#)

Line 243: warning: cyclomatic complexity 30 of function (\*API).traceChain() is high (> 15) (gocyclo)

Line 651: warning: cyclomatic complexity 22 of function (\*API).standardTraceBlockToFile() is high (> 15) (gocyclo)

#### [ethstats/ethstats.go](#)

Line 214: warning: cyclomatic complexity 29 of function (\*Service).loop() is high (> 15) (gocyclo)

Line 355: warning: cyclomatic complexity 20 of function (\*Service).readLoop() is high (> 15) (gocyclo)

#### [cmd/abigen/main.go](#)

Line 102: warning: cyclomatic complexity 25 of function abigen() is high (> 15) (gocyclo)

#### [trie/trie.go](#)

Line 411: warning: cyclomatic complexity 24 of function (\*Trie).delete() is high (> 15) (gocyclo)

Line 309: warning: cyclomatic complexity 18 of function (\*Trie).insert() is high (> 15) (gocyclo)

Line 203: warning: cyclomatic complexity 16 of function (\*Trie).tryGetNode() is high (> 15) (gocyclo)

#### [core/blockchain\\_sethead\\_test.go](#)

Line 55: warning: cyclomatic complexity 20 of function (\*rewindTest).dump() is high (> 15) (gocyclo)

Line 2057: warning: cyclomatic complexity 19 of function verifyNoGaps() is high (> 15) (gocyclo)

Line 1951: warning: cyclomatic complexity 19 of function testSetHead() is high (> 15) (gocyclo)

#### [accounts/usbwallet/wallet.go](#)

Line 306: warning: cyclomatic complexity 27 of function (\*wallet).selfDerive() is high (> 15) (gocyclo)

#### [signer/fourbyte/validation.go](#)

Line 32: warning: cyclomatic complexity 21 of function (\*Database).ValidateTransaction() is high (> 15) (gocyclo)

#### [eth/filters/filter\\_system.go](#)

Line 522: warning: cyclomatic complexity 16 of function (\*EventSystem).eventLoop() is high (> 15) (gocyclo)

[eth/fetcher/block\\_fetcher.go](#)

Line 333: warning: cyclomatic complexity 92 of function (\*BlockFetcher).loop() is high (> 15) (gocyclo)

[accounts/scwallet/wallet.go](#)

Line 440: warning: cyclomatic complexity 25 of function (\*Wallet).selfDerive() is high (> 15) (gocyclo)

Line 338: warning: cyclomatic complexity 16 of function (\*Wallet).Open() is high (> 15) (gocyclo)

[eth/catalyst/api\\_test.go](#)

Line 249: warning: cyclomatic complexity 17 of function TestEth2NewBlock() is high (> 15) (gocyclo)

[contracts/checkpointoracle/oracle\\_test.go](#)

Line 167: warning: cyclomatic complexity 16 of function TestCheckpointRegister() is high (> 15) (gocyclo)

[consensus/beacon/consensus.go](#)

Line 102: warning: cyclomatic complexity 17 of function (\*Beacon).VerifyHeaders() is high (> 15) (gocyclo)

[tests/block\\_test\\_util.go](#)

Line 229: warning: cyclomatic complexity 16 of function validateHeader() is high (> 15) (gocyclo)

[eth/handler.go](#)

Line 311: warning: cyclomatic complexity 32 of function (\*handler).runEthPeer() is high (> 15) (gocyclo)

Line 129: warning: cyclomatic complexity 28 of function newHandler() is high (> 15) (gocyclo)

[tests/fuzzers/les/les-fuzzer.go](#)

Line 278: warning: cyclomatic complexity 24 of function Fuzz() is high (> 15) (gocyclo)

[core/state/snapshot/disklayer\\_test.go](#)

Line 217: warning: cyclomatic complexity 23 of function TestDiskPartialMerge() is high (> 15) (gocyclo)

[eth/downloader/queue\\_test.go](#)

Line 94: warning: cyclomatic complexity 22 of function TestBasics() is high (> 15) (gocyclo)

Line 266: warning: cyclomatic complexity 19 of function XTestDelivery() is high (> 15) (gocyclo)

[p2p/server.go](#)

Line 706: warning: cyclomatic complexity 20 of function (\*Server).run() is high (> 15) (gocyclo)

[Line 539](#): warning: cyclomatic complexity 17 of function (\*Server).setupDiscovery() is high (> 15) (gocyclo)

#### [eth/protocols/snap/sync\\_test.go](#)

[Line 305](#): warning: cyclomatic complexity 16 of function createStorageRequestResponse() is high (> 15) (gocyclo)

#### [core/vm/interpreter.go](#)

[Line 116](#): warning: cyclomatic complexity 23 of function (\*EVMInterpreter).Run() is high (> 15) (gocyclo)

#### [core/rawdb/freezer.go](#)

[Line 383](#): warning: cyclomatic complexity 23 of function (\*Freezer).MigrateTable() is high (> 15) (gocyclo)

#### [trie/proof\\_test.go](#)

[Line 532](#): warning: cyclomatic complexity 18 of function TestBadRangeProof() is high (> 15) (gocyclo)

[Line 195](#): warning: cyclomatic complexity 17 of function TestRangeProofWithNonExistentProof() is high (> 15) (gocyclo)

[Line 324](#): warning: cyclomatic complexity 16 of function TestOneElementRangeProof() is high (> 15) (gocyclo)

#### [p2p/simulations/http.go](#)

[Line 382](#): warning: cyclomatic complexity 18 of function (\*Server).StreamNetworkEvents() is high (> 15) (gocyclo)

#### [eth/tracers/logger/logger.go](#)

[Line 151](#): warning: cyclomatic complexity 16 of function (\*StructLogger).CaptureState() is high (> 15) (gocyclo)

#### [mobile/android\\_test.go](#)

[Line 156](#): warning: cyclomatic complexity 17 of function TestAndroid() is high (> 15) (gocyclo)

#### [les/api\\_test.go](#)

[Line 95](#): warning: cyclomatic complexity 45 of function testCapacityAPI() is high (> 15) (gocyclo)

#### [core/tx\\_pool.go](#)

[Line 1378](#): warning: cyclomatic complexity 21 of function (\*TxPool).truncatePending() is high (> 15) (gocyclo)

[Line 655](#): warning: cyclomatic complexity 19 of function (\*TxPool).add() is high (> 15) (gocyclo)

Line 586: warning: cyclomatic complexity 18 of function (\*TxPool).validateTx() is high (> 15) (gocyclo)

Line 337: warning: cyclomatic complexity 17 of function (\*TxPool).loop() is high (> 15) (gocyclo)

#### [eth/downloader/beaconsync.go](#)

Line 272: warning: cyclomatic complexity 21 of function (\*Downloader).fetchBeaconHeaders() is high (> 15) (gocyclo)

#### [rlp/encode.go](#)

Line 135: warning: cyclomatic complexity 17 of function makeWriter() is high (> 15) (gocyclo)

#### [core/chain\\_makers.go](#)

Line 220: warning: cyclomatic complexity 17 of function GenerateChain() is high (> 15) (gocyclo)

#### [metrics/ewma\\_test.go](#)

Line 86: warning: cyclomatic complexity 17 of function TestEWMA5() is high (> 15) (gocyclo)

Line 17: warning: cyclomatic complexity 17 of function TestEWMA1() is high (> 15) (gocyclo)

Line 155: warning: cyclomatic complexity 17 of function TestEWMA15() is high (> 15) (gocyclo)

#### [les/downloader/queue.go](#)

Line 689: warning: cyclomatic complexity 17 of function (\*queue).DeliverHeaders() is high (> 15) (gocyclo)

#### [eth/tracers/logger/access\\_list\\_tracer.go](#)

Line 140: warning: cyclomatic complexity 17 of function (\*AccessListTracer).CaptureState() is high (> 15) (gocyclo)

#### [eth/filters/api\\_test.go](#)

Line 28: warning: cyclomatic complexity 40 of function TestUnmarshalJSONNewFilterArgs() is high (> 15) (gocyclo)

#### [cmd/evm/internal/t8ntool/transaction.go](#)

Line 67: warning: cyclomatic complexity 22 of function Transaction() is high (> 15) (gocyclo)

#### [core/state/snapshot/journal.go](#)

Line 279: warning: cyclomatic complexity 19 of function iterateJournal() is high (> 15) (gocyclo)

#### [accounts/usbwallet/trezor.go](#)

Line 282: warning: cyclomatic complexity 19 of function (\*trezorDriver).trezorExchange() is high (> 15) (gocyclo)

#### [eth/protocols/eth/handler\\_test.go](#)

Line 381: warning: cyclomatic complexity 19 of function testGetNodeData() is high (> 15) (gocyclo)

[trie/sync.go](#)

Line 383: warning: cyclomatic complexity 17 of function (\*Sync).children() is high (> 15) (gocyclo)

[core/state/pruner/pruner.go](#)

Line 115: warning: cyclomatic complexity 18 of function prune() is high (> 15) (gocyclo)

Line 234: warning: cyclomatic complexity 16 of function (\*Pruner).Prune() is high (> 15) (gocyclo)

[cmd/evm/internal/t8ntool/transition.go](#)

Line 85: warning: cyclomatic complexity 46 of function Transition() is high (> 15) (gocyclo)

[cmd/devp2p/internal/ethetest/types.go](#)

Line 157: warning: cyclomatic complexity 25 of function (\*Conn).Read() is high (> 15) (gocyclo)

[accounts/usbwallet/hub.go](#)

Line 134: warning: cyclomatic complexity 22 of function (\*Hub).refreshWallets() is high (> 15) (gocyclo)

[eth/protocols/eth/handlers.go](#)

Line 53: warning: cyclomatic complexity 22 of function serviceNonContiguousBlockHeaderQuery() is high (> 15) (gocyclo)

[mobile/geth.go](#)

Line 115: warning: cyclomatic complexity 21 of function NewNode() is high (> 15) (gocyclo)

[log/format.go](#)

Line 328: warning: cyclomatic complexity 21 of function formatLogfmtValue() is high (> 15) (gocyclo)

[cmd/devp2p/internal/ethetest/helpers.go](#)

Line 557: warning: cyclomatic complexity 18 of function (\*Suite).hashAnnounce() is high (> 15) (gocyclo)

[core/rawdb/freezer\\_test.go](#)

Line 330: warning: cyclomatic complexity 18 of function TestRenameWindows() is high (> 15) (gocyclo)

[crypto/bls12381/field\\_element\\_test.go](#)

Line 29: warning: cyclomatic complexity 17 of function TestFieldElementEquality() is high (> 15) (gocyclo)

[les/sync\\_test.go](#)

Line 44: warning: cyclomatic complexity 16 of function testCheckpointSyncing() is high (> 15) (gocyclo)

#### [ethdb/leveldb/leveldb.go](#)

Line 282: warning: cyclomatic complexity 41 of function (\*Database).meter() is high (> 15) (gocyclo)

#### [p2p/dial.go](#)

Line 224: warning: cyclomatic complexity 23 of function (\*dialScheduler).loop() is high (> 15) (gocyclo)

#### [params/config.go](#)

Line 646: warning: cyclomatic complexity 23 of function (\*ChainConfig).checkCompatible() is high (> 15) (gocyclo)

#### [cmd/puppeth/ssh.go](#)

Line 51: warning: cyclomatic complexity 22 of function dial() is high (> 15) (gocyclo)

#### [core/rawdb/database.go](#)

Line 356: warning: cyclomatic complexity 51 of function InspectDatabase() is high (> 15) (gocyclo)

#### [les/client\\_handler.go](#)

Line 169: warning: cyclomatic complexity 39 of function (\*clientHandler).handleMsg() is high (> 15) (gocyclo)

#### [accounts/abi/bind/bind.go](#)

Line 87: warning: cyclomatic complexity 39 of function Bind() is high (> 15) (gocyclo)

Line 46: warning: cyclomatic complexity 29 of function isKeyword() is high (> 15) (gocyclo)

#### [accounts/abi/type.go](#)

Line 70: warning: cyclomatic complexity 30 of function NewType() is high (> 15) (gocyclo)

#### [les/pruner\\_test.go](#)

Line 30: warning: cyclomatic complexity 26 of function TestLightPruner() is high (> 15) (gocyclo)

#### [rlp/rlpgen/gen.go](#)

Line 632: warning: cyclomatic complexity 18 of function (\*buildContext).makeOp() is high (> 15) (gocyclo)

#### [les/vflux/server/clientpool\\_test.go](#)

Line 137: warning: cyclomatic complexity 17 of function testClientPool() is high (> 15) (gocyclo)

#### [core/state/state\\_test.go](#)



[Line 208](#): warning: cyclomatic complexity 17 of function `compareStateObjects()` is high (> 15) (gocyclo)

#### [miner/worker.go](#)

[Line 517](#): warning: cyclomatic complexity 33 of function `(*worker).mainLoop()` is high (> 15) (gocyclo)

[Line 417](#): warning: cyclomatic complexity 21 of function `(*worker).newWorkLoop()` is high (> 15) (gocyclo)

[Line 839](#): warning: cyclomatic complexity 20 of function `(*worker).commitTransactions()` is high (> 15) (gocyclo)

[Line 968](#): warning: cyclomatic complexity 16 of function `(*worker).prepareWork()` is high (> 15) (gocyclo)

#### [les/vflux/client/valuetracker\\_test.go](#)

[Line 40](#): warning: cyclomatic complexity 24 of function `TestValueTracker()` is high (> 15) (gocyclo)

#### [les/server\\_requests.go](#)

[Line 151](#): warning: cyclomatic complexity 22 of function `handleGetBlockHeaders()` is high (> 15) (gocyclo)

[Line 368](#): warning: cyclomatic complexity 18 of function `handleGetProofs()` is high (> 15) (gocyclo)

[Line 451](#): warning: cyclomatic complexity 16 of function `handleGetHelperTrieProofs()` is high (> 15) (gocyclo)

#### [ethclient/ethclient.go](#)

[Line 110](#): warning: cyclomatic complexity 21 of function `(*Client).getBlock()` is high (> 15) (gocyclo)

#### [core/rawdb/freezer\\_table\\_test.go](#)

[Line 1202](#): warning: cyclomatic complexity 21 of function `runRandTest()` is high (> 15) (gocyclo)

[Line 1123](#): warning: cyclomatic complexity 17 of function `(randTest).Generate()` is high (> 15) (gocyclo)

#### [eth/downloader/queue.go](#)

[Line 660](#): warning: cyclomatic complexity 17 of function `(*queue).DeliverHeaders()` is high (> 15) (gocyclo)

#### [internal/ethapi/transaction\\_args.go](#)

[Line 202](#): warning: cyclomatic complexity 17 of function `(*TransactionArgs).ToMessage()` is high (> 15) (gocyclo)

[Line 134](#): warning: cyclomatic complexity 16 of function `(*TransactionArgs).setFeeDefaults()` is high (> 15) (gocyclo)

[rpc/subscription\\_test.go](#)

Line 49: warning: cyclomatic complexity 16 of function TestSubscriptions() is high (> 15) (gocyclo)

[core/rawdb/chain\\_freezer.go](#)

Line 88: warning: cyclomatic complexity 32 of function (\*chainFreezer).freeze() is high (> 15) (gocyclo)

[core/state/snapshot/generate.go](#)

Line 316: warning: cyclomatic complexity 28 of function (\*diskLayer).generateRange() is high (> 15) (gocyclo)

Line 561: warning: cyclomatic complexity 22 of function generateAccounts() is high (> 15) (gocyclo)

Line 169: warning: cyclomatic complexity 19 of function (\*diskLayer).proveRange() is high (> 15) (gocyclo)

[eth/handler\\_eth\\_test.go](#)

Line 492: warning: cyclomatic complexity 20 of function testCheckpointChallenge() is high (> 15) (gocyclo)

[core/types/transaction\\_test.go](#)

Line 274: warning: cyclomatic complexity 19 of function testTransactionPriceNonceSort() is high (> 15) (gocyclo)

[les/utils/limiter\\_test.go](#)

Line 108: warning: cyclomatic complexity 16 of function TestLimiter() is high (> 15) (gocyclo)

[les/peer.go](#)

Line 590: warning: cyclomatic complexity 20 of function (\*serverPeer).Handshake() is high (> 15) (gocyclo)

[tests/state\\_test\\_util.go](#)

Line 294: warning: cyclomatic complexity 18 of function (\*stTransaction).toMessage() is high (> 15) (gocyclo)

[eth/downloader/fetchers\\_concurrent.go](#)

Line 79: warning: cyclomatic complexity 56 of function (\*Downloader).concurrentFetch() is high (> 15) (gocyclo)

[cmd/bootnode/main.go](#)

Line 36: warning: cyclomatic complexity 25 of function main() is high (> 15) (gocyclo)

[les/costtracker.go](#)

Line 244: warning: cyclomatic complexity 25 of function (\*costTracker).gfLoop() is high (> 15) (gocyclo)

#### [cmd/puppeth/wizard\\_faucet.go](#)

Line 29: warning: cyclomatic complexity 24 of function (\*wizard).deployFaucet() is high (> 15) (gocyclo)

#### [core/dao\\_test.go](#)

Line 31: warning: cyclomatic complexity 22 of function TestDAOForkRangeExtradata() is high (> 15) (gocyclo)

#### [core/vm/evm.go](#)

Line 406: warning: cyclomatic complexity 26 of function (\*EVM).create() is high (> 15) (gocyclo)

Line 168: warning: cyclomatic complexity 16 of function (\*EVM).Call() is high (> 15) (gocyclo)

#### [cmd/puppeth/wizard\\_node.go](#)

Line 30: warning: cyclomatic complexity 25 of function (\*wizard).deployNode() is high (> 15) (gocyclo)

#### [core/state/snapshot/snapshot.go](#)

Line 514: warning: cyclomatic complexity 25 of function diffToDisk() is high (> 15) (gocyclo)

#### [eth/downloader/skeleton\\_test.go](#)

Line 516: warning: cyclomatic complexity 34 of function TestSkeletonSyncRetrievals() is high (> 15) (gocyclo)

#### [internal/ethapi/api.go](#)

Line 1027: warning: cyclomatic complexity 31 of function DoEstimateGas() is high (> 15) (gocyclo)

Line 1830: warning: cyclomatic complexity 17 of function (\*TransactionAPI).Resend() is high (> 15) (gocyclo)

#### [trie/proof.go](#)

Line 223: warning: cyclomatic complexity 29 of function unsetInternal() is high (> 15) (gocyclo)

Line 477: warning: cyclomatic complexity 26 of function VerifyRangeProof() is high (> 15) (gocyclo)

Line 141: warning: cyclomatic complexity 16 of function proofToPath() is high (> 15) (gocyclo)

#### [eth/backend.go](#)

Line 106: warning: cyclomatic complexity 29 of function New() is high (> 15) (gocyclo)

#### [core/block\\_validator\\_test.go](#)

Line 90: warning: cyclomatic complexity 27 of function testHeaderVerificationForMerging() is high (>

15) (gocyclo)

#### [core/genesis.go](#)

Line 251: warning: cyclomatic complexity 23 of function SetupGenesisBlockWithOverride() is high (> 15) (gocyclo)

#### [core/vm/gas\\_table.go](#)

Line 96: warning: cyclomatic complexity 16 of function gasSStore() is high (> 15) (gocyclo)

#### [cmd/geth/main.go](#)

Line 361: warning: cyclomatic complexity 20 of function startNode() is high (> 15) (gocyclo)

Line 275: warning: cyclomatic complexity 19 of function prepare() is high (> 15) (gocyclo)

#### [core/state/snapshot/iterator\\_test.go](#)

Line 308: warning: cyclomatic complexity 17 of function TestAccountIteratorTraversalValues() is high (> 15) (gocyclo)

Line 402: warning: cyclomatic complexity 17 of function TestStorageIteratorTraversalValues() is high (> 15) (gocyclo)

#### [consensus/ethash/consensus.go](#)

Line 268: warning: cyclomatic complexity 17 of function (\*Ethash).verifyHeader() is high (> 15) (gocyclo)

#### [eth/fetcher/tx\\_fetcher\\_test.go](#)

Line 1252: warning: cyclomatic complexity 88 of function testTransactionFetcher() is high (> 15) (gocyclo)

#### [cmd/evm/runner.go](#)

Line 108: warning: cyclomatic complexity 37 of function runCmd() is high (> 15) (gocyclo)

#### [p2p/simulations/http\\_test.go](#)

Line 594: warning: cyclomatic complexity 33 of function TestHTTPSsnapshot() is high (> 15) (gocyclo)

Line 477: warning: cyclomatic complexity 16 of function (\*expectEvents).expect() is high (> 15) (gocyclo)

#### [cmd/evm/internal/t8ntool/block.go](#)

Line 260: warning: cyclomatic complexity 26 of function readInput() is high (> 15) (gocyclo)

#### [eth/filters/api.go](#)

Line 447: warning: cyclomatic complexity 24 of function (\*FilterCriteria).UnmarshalJSON() is high (> 15) (gocyclo)

[les/vflux/client/serverpool\\_test.go](#)

**Line 115:** warning: cyclomatic complexity 16 of function (\*ServerPoolTest).start() is high (> 15) (gocyclo)

[eth/protocols/snap/sync.go](#)

**Line 1923:** warning: cyclomatic complexity 44 of function (\*Syncer).processStorageResponse() is high (> 15) (gocyclo)

**Line 1126:** warning: cyclomatic complexity 26 of function (\*Syncer).assignStorageTasks() is high (> 15) (gocyclo)

**Line 578:** warning: cyclomatic complexity 24 of function (\*Syncer).Sync() is high (> 15) (gocyclo)

**Line 2539:** warning: cyclomatic complexity 23 of function (\*Syncer).OnStorage() is high (> 15) (gocyclo)

**Line 1282:** warning: cyclomatic complexity 19 of function (\*Syncer).assignTrieNodeHealTasks() is high (> 15) (gocyclo)

**Line 2322:** warning: cyclomatic complexity 19 of function (\*Syncer).OnAccounts() is high (> 15) (gocyclo)

**Line 1410:** warning: cyclomatic complexity 18 of function (\*Syncer).assignBytecodeHealTasks() is high (> 15) (gocyclo)

**Line 2250:** warning: cyclomatic complexity 16 of function (\*Syncer).forwardAccountTask() is high (> 15) (gocyclo)

**Line 1526:** warning: cyclomatic complexity 16 of function (\*Syncer).revertRequests() is high (> 15) (gocyclo)

[trie/trie\\_test.go](#)

**Line 413:** warning: cyclomatic complexity 30 of function runRandTest() is high (> 15) (gocyclo)

[core/state/sync\\_test.go](#)

**Line 544:** warning: cyclomatic complexity 26 of function TestIncompleteStateSync() is high (> 15) (gocyclo)

**Line 171:** warning: cyclomatic complexity 22 of function testIterativeStateSync() is high (> 15) (gocyclo)

**Line 454:** warning: cyclomatic complexity 19 of function TestIterativeRandomDelayedStateSync() is high (> 15) (gocyclo)

**Line 374:** warning: cyclomatic complexity 17 of function testIterativeRandomStateSync() is high (> 15) (gocyclo)

**Line 281:** warning: cyclomatic complexity 17 of function TestIterativeDelayedStateSync() is high (> 15) (gocyclo)

[core/types/receipt\\_test.go](#)

Line 217: warning: cyclomatic complexity 19 of function TestDeriveFields() is high (> 15) (gocyclo)

[les/odr\\_test.go](#)

Line 261: warning: cyclomatic complexity 18 of function testGetTxStatusFromUnindexedPeers() is high (> 15) (gocyclo)

[core/blockchain\\_test.go](#)

Line 734: warning: cyclomatic complexity 33 of function TestFastVsFullChains() is high (> 15) (gocyclo)

Line 2485: warning: cyclomatic complexity 27 of function TestTransactionIndices() is high (> 15) (gocyclo)

Line 2201: warning: cyclomatic complexity 22 of function testInsertKnownChainDataWithMerging() is high (> 15) (gocyclo)

Line 2615: warning: cyclomatic complexity 20 of function TestSkipStaleTxIndicesInSnapSync() is high (> 15) (gocyclo)

Line 3138: warning: cyclomatic complexity 19 of function TestDeleteRecreateSlotsAcrossManyBlocks() is high (> 15) (gocyclo)

Line 982: warning: cyclomatic complexity 17 of function TestChainTxReorgs() is high (> 15) (gocyclo)

Line 1415: warning: cyclomatic complexity 17 of function TestEIP155Transition() is high (> 15) (gocyclo)

Line 518: warning: cyclomatic complexity 17 of function testReorg() is high (> 15) (gocyclo)

Line 2062: warning: cyclomatic complexity 17 of function testInsertKnownChainData() is high (> 15) (gocyclo)

Line 1788: warning: cyclomatic complexity 16 of function TestInsertReceiptChainRollback() is high (> 15) (gocyclo)

[tests/fuzzers/vflux/clientpool-fuzzer.go](#)

Line 217: warning: cyclomatic complexity 28 of function FuzzClientPool() is high (> 15) (gocyclo)

[cmd/devp2p/internal/ethtest/snap.go](#)

Line 448: warning: cyclomatic complexity 18 of function (\*Suite).snapGetAccountRange() is high (> 15) (gocyclo)

[les/api.go](#)

Line 143: warning: cyclomatic complexity 16 of function (\*LightServerAPI).setParams() is high (> 15) (gocyclo)

Line 257: warning: cyclomatic complexity 16 of function (\*LightServerAPI).Benchmark() is high (> 15)

(gocyclo)

[eth/catalyst/api.go](#)

**Line 154:** warning: cyclomatic complexity 28 of function (\*ConsensusAPI).ForkchoiceUpdatedV1() is high (> 15) (gocyclo)

**Line 560:** warning: cyclomatic complexity 25 of function (\*ConsensusAPI).heartbeat() is high (> 15) (gocyclo)

[eth/tracers/native/prestate.go](#)

**Line 93:** warning: cyclomatic complexity 18 of function (\*prestateTracer).CaptureState() is high (> 15) (gocyclo)

[tests/fuzzers/trie/trie-fuzzer.go](#)

**Line 139:** warning: cyclomatic complexity 17 of function runRandTest() is high (> 15) (gocyclo)

[les/vflux/server/prioritypool\\_test.go](#)

**Line 50:** warning: cyclomatic complexity 17 of function TestPriorityPool() is high (> 15) (gocyclo)

[accounts/abi/pack\\_test.go](#)

**Line 59:** warning: cyclomatic complexity 16 of function TestMethodPack() is high (> 15) (gocyclo)

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