

# givethModule

## Table of Contents

Some words on this Title..... 2

First cmd..... 4

Attachment 2 ..... 19

End. .... 40

This is a report about the giveth Module from Midas Technologies AG for the @melonproject/protocol.

# Some words on this Title

what we added:

- givethBridgeAdapter.sol as ExchangeAdapter
- donateOnExchange() in Trading.sol
- givethBridge as an "Exchange"

Why/What they do?:

- enable donations from a fund (just callable as fundManager) to givethDAC's (Decentralized Altruistic Communities see <https://giveth.io>) as written in ...(milestone ec.).

Kovan prototype:

Since this is about connecting two different independent systems, the @melonproject/protocol code hosted on github and @giveth especially their Bridge Contract, with the aim to donate from a fund from the melon system to a DAC of giveth, there are a few steps need to be done, before a convenient deploy on mainnet makes the benefit of this Module.

1. Further and deeper integration into the policy system ec. of the melonprotocol. (@melonproject?)
2. Redeploy of GivethBridge with `checkWhitelisted(address \_token) public view...` (@giveth?)

For now the Setup is an own deployed GivethBridge which is taken from etherscan verified contract of the givethBridge on Ropsten/rechecked on github. But because we want to donate tokens every token needs a whitelisting on giveth to be accepted as donation we deployed it ourselves to be able to set the whitelists.

This Report is on kovan because of different reasons, usability(for developer), the much bigger and complex solidity system is the protocol and its components as well as the support in the past have been much bigger on the kovan TESTNET chain. Although it should make no difference to use the MAINNET chain, there is a huge difference regarding, "real" costs of transactions, support also and a lot of developer probs because redeploying such a huge system as the melonprotocol maybe even with all from scratch could be depending on the very very high MAINNET variance of the average GASPRICE be jumping between 1-2to5-30or everything else, since this is on Ethereum.

During this writing we deployed everything from scratch on kovan TESTNET and you will find the commands with output below, if you need to see or just interested :)

On the following link you see 8 transactions starting at Block 15,279,692 with tx hash `0x2252970f9...` (<https://kovan.etherscan.io/address/0x173add8c7e4f7034e9ca41c5d2d8a0a986fd427e>). These are donations from a fund ('Fund1') to the givethDAC matching the identifier `receiverDAC`. With the setting from the following commit on @Midas-Technologies-AG/protocol a fork from @melonproject/protocol, namely the branch `kovan-donateOnE` i run the two combined commands below to setup this testSetup from scratch with giving two export variables: `PRIVATE_KEY=...` and `JSCON_RPC_ENDPOINT=wss://infura...`.

## IMPORTANT

If you want to redo, set the variables above via bash `export PRIV...`. AND! change in the `bin/deploy.sh` file which gets called via `yarn dplK` via `package.json` command by removing line `--keystore` and adding `-P <your-private-key> \`.

WaaauuuAAuBauuuuu ;) cheers.

commit: `3e9c231`

# First cmd

yarn dplK && yarn test:system:

Output 1:

```
yarn run v1.17.3
$ sh bin/testDeployKovan.sh
$ node bin/melon.js deploy -T kyberPrice --config deployments/configs/test/kovan2.json
--gas-price 2000000000 --keystore .keystore-midasAG.json --endpoint
wss://kovan.infura.io/ws/v3/480f2e57242a4340aa21a94a9181f891
Deploying thirdParty & melon contracts.
Loaded config from ../deployments/configs/test/kovan2.json
Keystore file at: .keystore-midasAG.json
Using KEYSTORE_PASSWORD from env vars
2019-12-06T17:37:10.668Z info melon:protocol:utils:deploySystem: "Deploying system
from:" "0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E"
2019-12-06T17:37:11.291Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.ethfinexAdapter"
2019-12-06T17:37:11.292Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.kyberAdapter"
2019-12-06T17:37:11.293Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.matchingMarketAdapter"
2019-12-06T17:37:11.293Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.matchingMarketAccessor"
2019-12-06T17:37:11.293Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.zeroExAdapter"
2019-12-06T17:37:11.294Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.engineAdapter"
2019-12-06T17:37:11.294Z info melon:protocol:utils:deploySystem: "Not Deploying"
"adapters.givethBridgeAdapter"
2019-12-06T17:37:11.294Z info melon:protocol:utils:deploySystem: "Not Deploying"
"policies.priceTolerance"
2019-12-06T17:37:11.294Z info melon:protocol:utils:deploySystem: "Deploying"
"policies.userWhitelist"
Node has 100 peers
2019-12-06T17:37:20.584Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"UserWhitelist(0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E)" "at contract address:"
"0xbaFAB38dF2EE81Caf976ca7Bb995C2e7A3D6E5C7" "transaction hash:"
"0x2f1975e2f7852e1e24a5f8fd950a88c6751e967497323f663dcc90051626a3f2"
2019-12-06T17:37:20.589Z info melon:protocol:utils:deploySystem: "Not Deploying"
"fees.managementFee"
2019-12-06T17:37:20.589Z info melon:protocol:utils:deploySystem: "Not Deploying"
"fees.performanceFee"
2019-12-06T17:37:20.590Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.accountingFactory"
2019-12-06T17:37:20.590Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.feeManagerFactory"
2019-12-06T17:37:20.590Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.participationFactory"
```

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2019-12-06T17:37:20.593Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.policyManagerFactory"
2019-12-06T17:37:20.595Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.sharesFactory"
2019-12-06T17:37:20.597Z info melon:protocol:utils:deploySystem: "Deploying"
"factories.tradingFactory"
2019-12-06T17:37:24.624Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"TradingFactory()" "at contract address:" "0xAf476a1De3062bCbe5C75815514e18c85F5C5877"
"transaction hash:"
"0xdb8642b0c4d725ee18e5cb57a8fa120bb6bbe616b91e2a7332f6452da7d70dc8"
2019-12-06T17:37:24.626Z info melon:protocol:utils:deploySystem: "Not Deploying"
"factories.vaultFactory"
2019-12-06T17:37:24.629Z info melon:protocol:utils:deploySystem: "Deploying"
"registry"
2019-12-06T17:37:28.555Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"Registry(0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E)" "at contract address:"
"0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167" "transaction hash:"
"0x7fa9213594683d60ca98c08beababd697db361cad88ee5011ff6d49d49c42636"
2019-12-06T17:37:28.556Z info melon:protocol:utils:deploySystem: "Deploying" "engine"
2019-12-06T17:37:32.303Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"Engine(2592000,0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167)" "at contract address:"
"0x0607AC96CD050A0BD2B0940F3F9659610fea49d6" "transaction hash:"
"0x551abc087414cb286d62b92fc4a9939b3a87b7ef09057fb169492bd900b99780"
2019-12-06T17:37:32.306Z info melon:protocol:utils:deploySystem: "Not Deploying"
"priceSource"
2019-12-06T17:37:32.307Z info melon:protocol:utils:deploySystem: "Register
priceSource"
2019-12-06T17:37:32.310Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setPriceSource(\"0x385a59e848f645
6ADf19C367c8cf03FD39c23FAB\")"
2019-12-06T17:37:36.498Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.engine()"
2019-12-06T17:37:37.527Z info melon:protocol:utils:deploySystem: "Setting native
token"
2019-12-06T17:37:37.527Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setNativeAsset(\"0xd0a1e359811322
d97991e03f863a0c30c2cf029c\")"
2019-12-06T17:37:40.500Z info melon:protocol:utils:deploySystem: "Setting MLN token"
2019-12-06T17:37:40.501Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setMLNToken(\"0x2C2edf394638931eb
672BD9261d2AA1934874d45\")"
2019-12-06T17:37:44.677Z info melon:protocol:utils:deploySystem: "Setting engine on
registry"
2019-12-06T17:37:44.678Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setEngine(\"0x0607AC96CD050A0BD2B
0940F3F9659610fea49d6\")"
2019-12-06T17:37:52.650Z info melon:protocol:utils:deploySystem: "Setting MGM on

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registry"
2019-12-06T17:37:52.652Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setMGM("\0x173Add8c7E4f7034e9ca41
c5D2D8a0A986FD427E\")"
2019-12-06T17:37:56.579Z info melon:protocol:utils:deploySystem: "Setting ethfinex
wrapper registry"
2019-12-06T17:37:56.580Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setEthfinexWrapperRegistry("\0x0c
722EA3b6f05d109712dFBfa4421e6b7c5254b9\")"
2019-12-06T17:38:04.452Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.isFeeRegistered(0xE9D49808967d574
f7Aec6A5Fe11766D01819C6C7)"
2019-12-06T17:38:04.597Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.isFeeRegistered(0xBB7E55A91991915
01dbfbc68862F5e93bC370827)"
2019-12-06T17:38:04.762Z info melon:protocol:utils:deploySystem: "Registering fees"
2019-12-06T17:38:04.763Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerFees([\0xE9D49808967d574
f7Aec6A5Fe11766D01819C6C7\","\0xBB7E55A9199191501dbfbc68862F5e93bC370827\"])
2019-12-06T17:38:08.606Z info melon:protocol:utils:deploySystem: "Deploying" "ranking"
2019-12-06T17:38:12.652Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"FundRanking()" "at contract address:" "\0xd4A4c61761c3c9Ae519B7197fAD5c821A11E0e33"
"transaction hash:"
"\0xff4a40544d6d25aa5026c1d0249704538c95c79226d6abf60dfa3fd3f2b43e24"
2019-12-06T17:38:12.656Z info melon:protocol:utils:deploySystem: "Deploying" "version"
2019-12-06T17:38:16.665Z info melon:protocol:utils:solidity:deploy: "Got receipt for:"
"Version(0x85D7577839303551c3f3B083754f43e0531feA8a,\0xFd0F29EfbF33D2826c35D1977125d4ed
7980E809,\0x3bA196e5882ee5847a21b6015bA322A8e2Ff3a75,\0x91d84c092180274b20f5d909D385BF27
58985eC1,\0xAf476a1De3062bCbe5C75815514e18c85F5C5877,\0xf2879E95a4F0A88d244Aef11137e767F
4E80b4bF,\0xE3194a85bC6F3c010384A7cbA80Abc54F07C30C5,\0x01C6C207087F0f0163a52bd6E71FA51B
d95bf167,\0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E)" "at contract address:"
"\0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093" "transaction hash:"
"\0x49890d97f55889779069db0319566fcc261429645694652e5d20f2761cd0c90c"
2019-12-06T17:38:16.669Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.setMGM("\0x173Add8c7E4f7034e9ca41
c5D2D8a0A986FD427E\")"
2019-12-06T17:38:20.323Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:38:20.454Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:38:20.590Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.setAmguPrice("\0\")"
2019-12-06T17:38:24.531Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"

```



```

Bf9907b598988a84Ac37fBa71F5b1548fD0\","0xF4fE10d2086380010E81b4120244067c6EF6070e\","false,[\"0x79705be7\\\", \"0xe51be6e8\\\", \"0x61346679\\\", \"0x38c95122\\\", \"0x6b312d78\\\"])"
2019-12-06T17:39:00.547Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0xB14c0f4a8150c028806bE46Afb5214daea870CB7\\\", \"\\\", \"BAT\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:04.484Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0x16886a2B35BF40C59087500dEC9Bbc24765382C2\\\", \"\\\", \"DGX\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:08.354Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0xa80C98433E2a82DF3636ED934083E3285163Fad8\\\", \"\\\", \"REP\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:12.497Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0x0A3610a0E87cE0DEE6b81b62b462c7a0fD450E2a\\\", \"\\\", \"ZRX\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:16.577Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0xd0a1e359811322d97991e03f863a0c30c2cf029c\\\", \"\\\", \"WETH\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:20.494Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0x2C2edf394638931eb672BD9261d2AA1934874d45\\\", \"\\\", \"MLN\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:24.363Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0xbdaD7a926A7E70C6B0AF367d97D992b904BBAFcf\\\", \"\\\", \"MKR\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:28.529Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0x1D3bC44DD6C3F00640A6825B48F1C78770fd21d8\\\", \"\\\", \"DAI\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:32.625Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Registry@0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167.registerAsset(\"0xB5098BAFbF90F278374EcFA973A703fD0eb87A12\\\", \"\\\", \"KNC\\\", \"\\\", \"0\\\", [], [])"
2019-12-06T17:39:40.455Z info melon:protocol:utils:deploySystem: "Deployed:"
"42:kyberPrice"
Done in 151.61s.

```

## 2 Output

```

yarn run v1.17.3
$ yarn pretest && yarn jest --config ./src/tests/system/jest.config.js --runInBand --forceExit
$ rimraf logs/test-*.log
$ /home/willie/github/midas/protocol/node_modules/.bin/jest --config ./src/tests/system/jest.config.js --runInBand --forceExit
[Deprecation Warning:

```





46756e6431\",[\"0xe9d49808967d574f7aec6a5fe11766d01819c6c7\", \"0xbb7e55a9199191501dbfb  
c68862f5e93bc370827\"],[\"2000000000000000\", \"2000000000000000\"],[\"3888000\", \"777  
6000\"],[\"0xbED692938E714Da2a1d5407E5D99658F7D4c8079\", \"0x692f391bCc85cefCe8C237C01e  
1f636BbD70EA4D\", \"0x35dd2932454449b14cee11a94d3674a936d5d7b2\", \"0x77ac83FaA57974CDb6  
f7a130DF50de3fe0792673\", \"0x0607AC96CD050A0BD2B0940F3F9659610fea49d6\", \"0x07161Bf990  
7b598988a84Ac37fBa71F5b1548fD0\"],[\"0xA27CB53BdBbb12d21E8e28aa84e2486c52A89663\", \"0x  
A1A4aD89C376Cab1731d06b4680B13d3B9340278\", \"0xA28e3301222B9cb9C54910F0620Fbf92bbE38be  
3\", \"0xB79133a2c7905F035ae237326EFACfE0BB00DC90\", \"0x24289D3dee1c6eA31bEe75d8A7Dd6a3  
6E29F26c6\", \"0xF4fE10d2086380010E81b4120244067c6EF6070e\"],[\"0xd0a1e359811322d97991e0  
3f863a0c30c2cf029c\", \"0xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"0x2C2edf3946389  
31eb672BD9261d2AA1934874d45\"])\"

2019-12-06T17:40:12.560Z info melon:protocol:utils:solidity:transactionFactory:  
\"Prepare transaction\"

\"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createAccounting()\"

2019-12-06T17:40:16.491Z info melon:protocol:utils:solidity:transactionFactory:  
\"Prepare transaction\"

\"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createFeeManager()\"

2019-12-06T17:40:16.828Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()\"

2019-12-06T17:40:16.975Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()\"

2019-12-06T17:40:17.108Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()\"

2019-12-06T17:40:17.239Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()\"

2019-12-06T17:40:17.366Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()\"

2019-12-06T17:40:17.588Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()\"

2019-12-06T17:40:17.713Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()\"

2019-12-06T17:40:17.972Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cf029C.totalSupply()\"

2019-12-06T17:40:20.630Z info melon:protocol:utils:solidity:transactionFactory:  
\"Prepare transaction\"

\"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createParticipation()\"

2019-12-06T17:40:21.023Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()\"

2019-12-06T17:40:21.142Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()\"

2019-12-06T17:40:21.269Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()\"

2019-12-06T17:40:21.410Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()\"

2019-12-06T17:40:21.537Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()\"

2019-12-06T17:40:21.671Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()\"

2019-12-06T17:40:21.799Z info melon:protocol:utils:solidity:callFactory: \"Prepare  
call\" \"PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()\"

2019-12-06T17:40:22.069Z info melon:protocol:utils:solidity:callFactory: \"Prepare

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call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:28.331Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createPolicyManager()"
2019-12-06T17:40:28.658Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:40:28.795Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:28.918Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()"
2019-12-06T17:40:29.053Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()"
2019-12-06T17:40:29.194Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:40:29.325Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:40:29.447Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:29.705Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:32.526Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createShares()"
2019-12-06T17:40:32.900Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:40:33.028Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:33.277Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()"
2019-12-06T17:40:33.404Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()"
2019-12-06T17:40:33.523Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:40:33.657Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:40:33.782Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:34.031Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:40.677Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createTrading()"
2019-12-06T17:40:41.015Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:40:41.150Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:41.284Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()"
2019-12-06T17:40:41.409Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()"
2019-12-06T17:40:41.546Z info melon:protocol:utils:solidity:callFactory: "Prepare

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call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:40:41.680Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:40:41.804Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:42.059Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:44.410Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.createVault()"
2019-12-06T17:40:44.701Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:40:44.831Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:44.978Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()"
2019-12-06T17:40:45.127Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()"
2019-12-06T17:40:45.253Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:40:45.377Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:40:45.516Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:45.796Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:48.666Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"FundFactory@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.completeSetup()"
2019-12-06T17:40:49.036Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.mlnToken()"
2019-12-06T17:40:49.160Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:49.303Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.engine()"
2019-12-06T17:40:49.456Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093.priceSource()"
2019-12-06T17:40:49.597Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:40:49.723Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:40:49.856Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:40:50.116Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:40:52.887Z info Midas-Technologies-AG/protocol:givethTests:: "setup Fund
was successfull" {
  "accountingAddress": "0x3b210136E6c51b207bC058DaF53840A22b1C3364",
  "feeManagerAddress": "0xfCA4aCD89666E9d6eA51C0EC516bF21bf09211A6",
  "participationAddress": "0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1",
  "policyManagerAddress": "0xB2B388f576140CE945f8915f085ddd68Bb3D2D6D",

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"priceSourceAddress": "0x385a59e848f6456ADf19C367c8cf03FD39c23FAB",
"registryAddress": "0x01C6C207087F0f0163a52bd6E71FA51Bd95bf167",
"sharesAddress": "0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f",
"tradingAddress": "0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9",
"vaultAddress": "0x9e5b58c09090C159dd0e483116D2bb7D4DbA1E29",
"versionAddress": "0x6917f78D84545F4eEcaf62b27f519C6dBB9Fa093",
"hubAddress": "0x707E5C9A3cE449828F0d57c88f33Cf279D22Cf9F"
}
2019-12-06T17:40:52.888Z info Midas-Technologies-AG/protocol:test-
givethModule:INVEST:: "Start invest()."
2019-12-06T17:40:52.888Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"PolicyManager@0xB2B388f576140CE945f8915f085ddd68Bb3D2D6D.batchRegister([\0x79705be7\
"],[\0xb264cF49f40F636F194473DcC30534B23fBe0A24\"])
2019-12-06T17:40:56.579Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"PolicyManager@0xB2B388f576140CE945f8915f085ddd68Bb3D2D6D.batchRegister([\0xe51be6e8\
"],[\0xb264cF49f40F636F194473DcC30534B23fBe0A24\"])
2019-12-06T17:41:00.450Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"PolicyManager@0xB2B388f576140CE945f8915f085ddd68Bb3D2D6D.batchRegister([\0x5d582870\
"],[\0xbaFAB38dF2EE81Caf976ca7Bb995C2e7A3D6E5C7\"])
2019-12-06T17:41:04.575Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.calcGav()"
2019-12-06T17:41:04.708Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.DENOMINATION_ASSET()"
2019-12-06T17:41:04.839Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:41:04.984Z info Midas-Technologies-AG/protocol:test-
givethModule:INVEST:: "GAV empty" {
  "token": {
    "address": "0xd0A1E359811322d97991E03f863a0C30C2cF029C",
    "decimals": 18,
    "symbol": "WETH"
  },
  "quantity": "0"
}
2019-12-06T17:41:04.986Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"
2019-12-06T17:41:05.508Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x173Add8c7E4f7034
e9ca41c5D2D8a0A986FD427E)"
2019-12-06T17:41:05.656Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:05.807Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"StandardToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.approve(\0xd933bb11A10b3Ae6
6071D9D0CCd591dA37b254c1\","43214321000000000000\")"
2019-12-06T17:41:08.602Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"

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2019-12-06T17:41:08.737Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Hub@0x707E5C9A3cE449828F0d57c88f33Cf279D22Cf9F.isShutDown()"

2019-12-06T17:41:08.879Z info melon:protocol:utils:solidity:callFactory: "Prepare call"

"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.allowance(0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E,0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1)"

2019-12-06T17:41:09.013Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"

2019-12-06T17:41:09.176Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"

2019-12-06T17:41:09.444Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"

2019-12-06T17:41:10.094Z info melon:protocol:utils:solidity:callFactory: "Prepare call"

"Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.getShareCostInAsset(10000000000000000,0xd0a1e359811322d97991e03f863a0c30c2cf029c)"

2019-12-06T17:41:10.228Z info melon:protocol:utils:solidity:transactionFactory: "Prepare transaction"

"Participation@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.requestInvestment(\"432143210000000000\", \"432143210000000000\", \"0xd0a1e359811322d97991e03f863a0c30c2cf029c\")"

2019-12-06T17:41:10.534Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.mlnToken()"

2019-12-06T17:41:10.653Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"

2019-12-06T17:41:10.776Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.engine()"

2019-12-06T17:41:10.907Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.priceSource()"

2019-12-06T17:41:11.041Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"

2019-12-06T17:41:11.167Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"

2019-12-06T17:41:11.291Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"

2019-12-06T17:41:11.554Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cf029C.totalSupply()"

2019-12-06T17:41:16.320Z info melon:protocol:utils:solidity:callFactory: "Prepare call"

"Participation@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.requests(0x173Add8c7E4f7034e9ca41c5D2D8a0A986FD427E)"

2019-12-06T17:41:16.449Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cf029C.totalSupply()"

2019-12-06T17:41:16.581Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"

2019-12-06T17:41:16.917Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"

2019-12-06T17:41:17.438Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"

2019-12-06T17:41:17.559Z info melon:protocol:utils:solidity:callFactory: "Prepare call" "Hub@0x707E5C9A3cE449828F0d57c88f33Cf279D22Cf9F.isShutDown()"

2019-12-06T17:41:17.811Z info melon:protocol:utils:solidity:callFactory: "Prepare

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call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"
2019-12-06T17:41:18.348Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"Participation@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.requests(0x173Add8c7E4f7034e
9ca41c5D2D8a0A986FD427E)"
2019-12-06T17:41:18.480Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:41:18.625Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"
2019-12-06T17:41:18.882Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"
2019-12-06T17:41:19.426Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"Participation@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hasValidRequest(0x173Add8c7E
4f7034e9ca41c5D2D8a0A986FD427E)"
2019-12-06T17:41:19.547Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Participation@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.executeRequestFor(\"0x173Add
8c7E4f7034e9ca41c5D2D8a0A986FD427E\")"
2019-12-06T17:41:19.928Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.mlnToken()"
2019-12-06T17:41:20.048Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:41:20.227Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.engine()"
2019-12-06T17:41:20.360Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.priceSource()"
2019-12-06T17:41:20.483Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Engine@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.getAmguPrice()"
2019-12-06T17:41:20.615Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "AmguConsumer@0x0607AC96CD050A0BD2B0940F3F9659610fea49d6.mlnToken()"
2019-12-06T17:41:20.737Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:41:20.996Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:41:24.529Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0xd933bb11A10b3Ae66071D9D0CCd591dA37b254c1.hub()"
2019-12-06T17:41:24.802Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xC498E4D015A57986bc3b1fCCC5c6174dD326C19f.totalSupply()"
2019-12-06T17:41:25.306Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.calcGav()"
2019-12-06T17:41:25.446Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.DENOMINATION_ASSET()"
2019-12-06T17:41:25.627Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:41:25.752Z info Midas-Technologies-AG/protocol:test-
givethModule:INVEST:: "Executed request" {
  "token": {
    "address": "0xd0A1E359811322d97991E03f863a0C30C2cF029C",
    "decimals": 18,
    "symbol": "WETH"
  }
}

```

```

    },
    "quantity": "432143210000000000"
  }
}
2019-12-06T17:41:25.753Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Accounting@0x3b210136E6c51b207bC058DaF53840A22b1C3364.getFundHoldings()"
2019-12-06T17:41:25.900Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0A1E359811322d97991E03f863a0C30C2cF029C.totalSupply()"
2019-12-06T17:41:25.906Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0x2C2edf394638931eb672BD9261d2AA1934874d45.totalSupply()"
2019-12-06T17:41:26.053Z info Midas-Technologies-AG/protocol:givethTests:: "invest in
Fund successfull:" [
  {
    "token": {
      "address": "0xd0A1E359811322d97991E03f863a0C30C2cF029C",
      "decimals": 18,
      "symbol": "WETH"
    },
    "quantity": "432143210000000000"
  },
  {
    "token": {
      "address": "0x2C2edf394638931eb672BD9261d2AA1934874d45",
      "decimals": 18,
      "symbol": "MLN"
    },
    "quantity": "0"
  }
]
2019-12-06T17:41:26.058Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:26.520Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:26.649Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:26.767Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:27.030Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:27.166Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"1000000000000000000\")"
2019-12-06T17:41:32.377Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:32.706Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:32.850Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"

```



```

"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:32.982Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:33.255Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:33.465Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"11000000000000000000\")"
2019-12-06T17:41:40.430Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:40.684Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:40.820Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:40.943Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:41.204Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:41.342Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"11100000000000000000\")"
2019-12-06T17:41:44.680Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:44.942Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:45.077Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:45.199Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:45.478Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:45.725Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"11110000000000000000\")"
2019-12-06T17:41:48.486Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:48.749Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:48.890Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"

```

```

"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:49.012Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:49.260Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:49.389Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"1000000000000000\")"
2019-12-06T17:41:52.626Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:52.873Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:53.004Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:53.126Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:53.393Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:53.518Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"1100000000000000\")"
2019-12-06T17:41:56.566Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:41:56.827Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:56.970Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:41:57.095Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:57.396Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:41:57.527Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"1110000000000000\")"
2019-12-06T17:42:00.540Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "Spoke@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.hub()"
2019-12-06T17:42:00.871Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:42:01.015Z info melon:protocol:utils:solidity:callFactory: "Prepare
call"

```

```
"PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.balanceOf(0x9e5b58c09090C159
dd0e483116D2bb7D4DbA1E29)"
2019-12-06T17:42:01.158Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:42:01.426Z info melon:protocol:utils:solidity:callFactory: "Prepare
call" "PreminedToken@0xd0a1e359811322d97991e03f863a0c30c2cf029c.totalSupply()"
2019-12-06T17:42:01.565Z info melon:protocol:utils:solidity:transactionFactory:
"Prepare transaction"
"Trading@0x9e588e784c826dDE8Cf37A95Bbc13Bc393E6C1d9.donateOnExchange(5,\"makeDonation(
address,uint64,address,uint256)\",\"0x07161Bf9907b598988a84Ac37fBa71F5b1548fD0\",5,\"0
xd0a1e359811322d97991e03f863a0c30c2cf029c\", \"11110000000000\")"
PASS src/tests/system/playground-giveth.systest.ts (141.324s)
playground
  Happy path (127651ms)
```

```
Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        141.445s
Ran all test suites.
Force exiting Jest
```

Have you considered using `--detectOpenHandles` to detect async operations that kept running after all tests finished?  
Done in 144.47s.

## Attachment 2

yarn clean && yarn compile && yarn build:

```
yarn run v1.17.3
$ rimraf lib && rimraf out && rimraf logs/*.log
Done in 0.78s.
yarn run v1.17.3
$ node bin/melon.js compile
Compiling all contracts
FeeManager.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^
Trading.sol:2:1: Warning: Experimental features are turned on. Do not use experimental
features on live deployments.
pragma experimental ABIEncoderV2;
^-----^
group.sol:43:5: Warning: Defining constructors as functions with the same name as the
contract is deprecated. Use "constructor(...) { ... }" instead.
    function DSGroup(
      ^ (Relevant source part starts here and spans across multiple lines).
Owned.sol:13:5: Warning: Defining constructors as functions with the same name as the
```

```

contract is deprecated. Use "constructor(...) { ... }" instead.
    function Owned() {
        ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:59:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function PermissionGroups() public {
        ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:371:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function TestToken(string _name, string _symbol, uint _decimals) public {
        ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:404:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function KyberWhiteList(address _admin, ERC20Clone _kgtToken) public {
        ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:470:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function FeeBurner(address _admin, BurnableTokenClone kncToken, address
_kyberNetwork) public {
        ^ (Relevant source part starts here and spans across multiple lines).
ConversionRates.sol:30:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function VolumeImbalanceRecorder(address _admin) public {
        ^ (Relevant source part starts here and spans across multiple lines).
ConversionRates.sol:258:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function ConversionRates(address _admin) public VolumeImbalanceRecorder(_admin)
        ^ (Relevant source part starts here and spans across multiple lines).
Exchange.sol:20:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

Exchange.sol:3928:5: Warning: Defining constructors as functions with the same name as
the contract is deprecated. Use "constructor(...) { ... }" instead.
    function ZRXToken() {
        ^ (Relevant source part starts here and spans across multiple lines).
WrapperLock.sol:32:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function WrapperLock(
        ^ (Relevant source part starts here and spans across multiple lines).
WrapperLockEth.sol:33:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function WrapperLockEth(string _name, string _symbol, uint _decimals, address
_proxyEfx, address _proxyV2) Ownable() {
        ^ (Relevant source part starts here and spans across multiple lines).
EthfinexAdapter.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

KyberNetwork.sol:22:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.

```

```

function KyberNetwork(address _admin) public {
  ^ (Relevant source part starts here and spans across multiple lines).
ExpectedRate.sol:12:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function ExpectedRate(KyberNetwork _kyberNetwork, address _admin) public {
      ^ (Relevant source part starts here and spans across multiple lines).
FundFactory.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

FundRanking.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

GivethBridge.sol:31:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function Owned() public {
      ^ (Relevant source part starts here and spans across multiple lines).
GivethBridge.sol:138:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function Escapable(address _escapeHatchCaller, address _escapeHatchDestination)
public {
  ^ (Relevant source part starts here and spans across multiple lines).
GivethBridge.sol:354:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function GivethVault(
      ^ (Relevant source part starts here and spans across multiple lines).
GivethBridge.sol:591:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function FailClosedVault(
      ^ (Relevant source part starts here and spans across multiple lines).
GivethBridge.sol:711:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function GivethBridge(
      ^ (Relevant source part starts here and spans across multiple lines).
GivethBridgeAdapter.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

KyberNetworkProxy.sol:34:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function KyberNetworkProxy(address _admin) public {
      ^ (Relevant source part starts here and spans across multiple lines).
KyberReserve.sol:15:5: Warning: Defining constructors as functions with the same name
as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function KyberReserve(address _kyberNetwork, ConversionRatesInterface
_ratesContract, address _admin) public {
      ^ (Relevant source part starts here and spans across multiple lines).
MatchingMarket.sol:105:9: Warning: Use of the "var" keyword is deprecated.
    var offer = offers[id];
    ^-----^

```

```

MatchingMarket.sol:116:9: Warning: Use of the "var" keyword is deprecated.
    var id = uint256(id_);
    ^----^

MatchingMarket.sol:303:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function ExpiringMarket(uint64 _close_time)
    ^ (Relevant source part starts here and spans across multiple lines).

MatchingMarket.sol:357:5: Warning: Defining constructors as functions with the same
name as the contract is deprecated. Use "constructor(...) { ... }" instead.
    function MatchingMarket(uint64 close_time) ExpiringMarket(close_time) public {
    ^ (Relevant source part starts here and spans across multiple lines).

MatchingMarket.sol:407:9: Warning: Use of the "var" keyword is deprecated.
    var fn = matchingEnabled ? _offeru : super.offer;
    ^----^

MatchingMarket.sol:457:9: Warning: Use of the "var" keyword is deprecated.
    var fn = matchingEnabled ? _buys : super.buy;
    ^----^

MatchingMarket.sol:677:17: Warning: Use of the "var" keyword is deprecated.
        var baux = rmul(pay_amt * 10 ** 9, rdiv(offers[offerId].pay_amt,
offers[offerId].buy_amt)) / 10 ** 9;
        ^-----^

MatchingMarket.sol:713:9: Warning: Use of the "var" keyword is deprecated.
    var offerId = getBestOffer(buy_gem, pay_gem);           //Get best offer for
the token pair
    ^-----^

MatchingMarket.sol:726:9: Warning: Use of the "var" keyword is deprecated.
    var offerId = getBestOffer(buy_gem, pay_gem);           //Get best offer for
the token pair
    ^-----^

MockFeeManager.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

SanityRates.sol:9:5: Warning: Defining constructors as functions with the same name as
the contract is deprecated. Use "constructor(...) { ... }" instead.
    function SanityRates(address _admin) public {
    ^ (Relevant source part starts here and spans across multiple lines).

Version.sol:2:1: Warning: Experimental features are turned on. Do not use experimental
features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

ZeroExV2Adapter.sol:2:1: Warning: Experimental features are turned on. Do not use
experimental features on live deployments.
pragma experimental ABIEncoderV2;
^-----^

group.sol:92:9: Warning: This declaration shadows an existing declaration.
    address target,
    ^-----^

group.sol:61:5: The shadowed declaration is here:
    function target(uint id) constant returns (address) {
    ^ (Relevant source part starts here and spans across multiple lines).

```

```

group.sol:93:9: Warning: This declaration shadows an existing declaration.
    bytes    calldata,
    ^-----^
group.sol:64:5: The shadowed declaration is here:
    function calldata(uint id) constant returns (bytes) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:94:9: Warning: This declaration shadows an existing declaration.
    uint     value
    ^-----^
group.sol:67:5: The shadowed declaration is here:
    function value(uint id) constant returns (uint) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:141:9: Warning: This declaration shadows an existing declaration.
    uint    memberCount,
    ^-----^
group.sol:57:5: The shadowed declaration is here:
    function memberCount() constant returns (uint) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:149:9: Warning: This declaration shadows an existing declaration.
    uint     confirmations,
    ^-----^
group.sol:71:5: The shadowed declaration is here:
    function confirmations(uint id) constant returns (uint) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:150:9: Warning: This declaration shadows an existing declaration.
    uint     deadline,
    ^-----^
group.sol:74:5: The shadowed declaration is here:
    function deadline(uint id) constant returns (uint) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:151:9: Warning: This declaration shadows an existing declaration.
    bool     triggered,
    ^-----^
group.sol:77:5: The shadowed declaration is here:
    function triggered(uint id) constant returns (bool) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:152:9: Warning: This declaration shadows an existing declaration.
    address  target,
    ^-----^
group.sol:61:5: The shadowed declaration is here:
    function target(uint id) constant returns (address) {
    ^ (Relevant source part starts here and spans across multiple lines).

group.sol:153:9: Warning: This declaration shadows an existing declaration.

```

```

uint    value
^-----^
group.sol:67:5: The shadowed declaration is here:
    function value(uint id) constant returns (uint) {
    ^ (Relevant source part starts here and spans across multiple lines).

KyberPriceFeed.sol:110:9: Warning: This declaration shadows an existing declaration.
    uint[] memory prices = new uint[](_assets.length);
    ^-----^

KyberPriceFeed.sol:28:5: The shadowed declaration is here:
    mapping (address => uint) public prices;
    ^-----^

Registry.sol:284:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Asset asset = assetInformation[_asset];
    ^-----^

Registry.sol:311:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Exchange exchange = exchangeInformation[_adapter];
    ^-----^

Registry.sol:419:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Exchange exchange = exchangeInformation[_adapter];
    ^-----^

Registry.sol:426:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Exchange exchange = exchangeInformation[_adapter];
    ^-----^

Trading.sol:369:9: Warning: Variable is declared as a storage pointer. Use an explicit
"storage" keyword to silence this warning.
    OpenMakeOrder order = exchangesToOpenMakeOrders[ofExchange][ofAsset];
    ^-----^

CanonicalRegistrar.sol:149:9: Warning: Variable is declared as a storage pointer. Use
an explicit "storage" keyword to silence this warning.
    Asset asset = assetInformation[ofAsset];
    ^-----^

CanonicalRegistrar.sol:174:9: Warning: Variable is declared as a storage pointer. Use
an explicit "storage" keyword to silence this warning.
    Exchange exchange = exchangeInformation[ofExchange];
    ^-----^

CanonicalRegistrar.sol:260:9: Warning: Variable is declared as a storage pointer. Use
an explicit "storage" keyword to silence this warning.
    Exchange exchange = exchangeInformation[ofExchange];
    ^-----^

SimplePriceFeed.sol:87:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Data data = assetsToPrices[ofAsset];
    ^-----^

math.sol:19:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name

```



```

function add(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:25:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function mul(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:22:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function sub(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:19:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function add(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:25:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function mul(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:22:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function sub(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
Participation.sol:139:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Request request = requests[msg.sender];
    ^-----^

FundFactory.sol:251:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Hub.Routes routes = managersToRoutes[_manager];
    ^-----^

TestingPriceFeed.sol:52:9: Warning: Variable is declared as a storage pointer. Use an
explicit "storage" keyword to silence this warning.
    Data data = assetsToPrices[ofAsset];
    ^-----^

math.sol:19:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function add(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:25:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function mul(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:22:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function sub(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:19:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
function add(uint x, uint y) internal pure returns (uint z) {
  ^ (Relevant source part starts here and spans across multiple lines).
math.sol:25:5: Warning: Variable is shadowed in inline assembly by an instruction of

```

```

the same name
    function mul(uint x, uint y) internal pure returns (uint z) {
    ^ (Relevant source part starts here and spans across multiple lines).
math.sol:22:5: Warning: Variable is shadowed in inline assembly by an instruction of
the same name
    function sub(uint x, uint y) internal pure returns (uint z) {
    ^ (Relevant source part starts here and spans across multiple lines).
Accounting.i.sol:17:5: Warning: Functions in interfaces should be declared external.
    function calcGav() public returns (uint gav);
    ^-----^
Accounting.i.sol:18:5: Warning: Functions in interfaces should be declared external.
    function calcNav(uint gav, uint unclaimedFees) pure returns (uint);
    ^-----^
Accounting.i.sol:19:5: Warning: Functions in interfaces should be declared external.
    function valuePerShare(uint totalValue, uint numShares) public view returns
(uint);
    ^-----^
^
Accounting.i.sol:20:5: Warning: Functions in interfaces should be declared external.
    function performCalculations() public returns (
    ^ (Relevant source part starts here and spans across multiple lines).
Accounting.i.sol:29:5: Warning: Functions in interfaces should be declared external.
    function calcGavPerShareNetManagementFee() public returns (uint);
    ^-----^
ERC20.i.sol:9:3: Warning: Functions in interfaces should be declared external.
    function totalSupply() public view returns (uint256);
    ^-----^
ERC20.i.sol:11:3: Warning: Functions in interfaces should be declared external.
    function balanceOf(address _who) public view returns (uint256);
    ^-----^
ERC20.i.sol:13:3: Warning: Functions in interfaces should be declared external.
    function allowance(address _owner, address _spender)
    ^ (Relevant source part starts here and spans across multiple lines).
ERC20.i.sol:16:3: Warning: Functions in interfaces should be declared external.
    function transfer(address _to, uint256 _value) public returns (bool);
    ^-----^
ERC20.i.sol:18:3: Warning: Functions in interfaces should be declared external.
    function approve(address _spender, uint256 _value) public returns (bool);
    ^-----^
ERC20.i.sol:20:3: Warning: Functions in interfaces should be declared external.
    function transferFrom(address _from, address _to, uint256 _value) public returns
(bool);

^-----^
_ ^
PriceSource.i.sol:11:5: Warning: Functions in interfaces should be declared external.
    function hasValidPrice(address) public view returns (bool);
    ^-----^
PriceSource.i.sol:12:5: Warning: Functions in interfaces should be declared external.
    function hasValidPrices(address[]) public view returns (bool);
    ^-----^

```

```

PriceSource.i.sol:15:5: Warning: Functions in interfaces should be declared external.
    function getPrice(address _asset) public view returns (uint price, uint
timestamp);
    ^-----^
^
PriceSource.i.sol:16:5: Warning: Functions in interfaces should be declared external.
    function getPrices(address[] _assets) public view returns (uint[] prices, uint[]
timestamps);

^-----^
-----^
PriceSource.i.sol:19:5: Warning: Functions in interfaces should be declared external.
    function getPriceInfo(address _asset) view returns (uint price, uint decimals);
    ^-----^
PriceSource.i.sol:20:5: Warning: Functions in interfaces should be declared external.
    function getInvertedPriceInfo(address ofAsset) view returns (uint price, uint
decimals);

^-----^
-^
PriceSource.i.sol:22:5: Warning: Functions in interfaces should be declared external.
    function getReferencePriceInfo(address _base, address _quote) public view returns
(uint referencePrice, uint decimal);

^-----^
-----^
PriceSource.i.sol:23:5: Warning: Functions in interfaces should be declared external.
    function getOrderPriceInfo(address sellAsset, address buyAsset, uint sellQuantity,
uint buyQuantity) public view returns (uint orderPrice);

^-----^
-----^
PriceSource.i.sol:24:5: Warning: Functions in interfaces should be declared external.
    function existsPriceOnAssetPair(address sellAsset, address buyAsset) public view
returns (bool isExistent);

^-----^
-----^
PriceSource.i.sol:25:5: Warning: Functions in interfaces should be declared external.
    function convertQuantity(
    ^ (Relevant source part starts here and spans across multiple lines).
Fee.i.sol:6:5: Warning: Functions in interfaces should be declared external.
    function feeAmount() public view returns (uint);
    ^-----^
Shares.i.sol:5:5: Warning: Functions in interfaces should be declared external.
    function createFor(address who, uint amount);
    ^-----^
Shares.i.sol:6:5: Warning: Functions in interfaces should be declared external.
    function destroyFor(address who, uint amount);
    ^-----^
Registry.sol:131:28: Warning: This function only accepts a single "bytes" argument.

```

Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
bytes32 nameHash = keccak256(_name);
```

^-----^

Registry.sol:131:28: Warning: The provided argument of type string memory is not implicitly convertible to expected type bytes memory.

```
bytes32 nameHash = keccak256(_name);
```

^-----^

Registry.sol:146:29: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
fundNameHashToOwner[keccak256(_name)] = _owner;
```

^-----^

Registry.sol:146:29: Warning: The provided argument of type string calldata is not implicitly convertible to expected type bytes memory.

```
fundNameHashToOwner[keccak256(_name)] = _owner;
```

^-----^

Trading.i.sol:16:5: Warning: Functions in interfaces should be declared external.

```
function callOnExchange(
```

^ (Relevant source part starts here and spans across multiple lines).

Trading.i.sol:27:5: Warning: Functions in interfaces should be declared external.

```
function addOpenMakeOrder(
```

^ (Relevant source part starts here and spans across multiple lines).

Trading.i.sol:35:5: Warning: Functions in interfaces should be declared external.

```
function removeOpenMakeOrder(
```

^ (Relevant source part starts here and spans across multiple lines).

Vault.sol:22:9: Warning: Invoking events without "emit" prefix is deprecated.

```
NewInstance(_hub, vault);
```

^-----^

Trading.sol:142:40: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
bytes4 methodSelector = bytes4(keccak256(methodSignature));
```

^-----^

Trading.sol:142:40: Warning: The provided argument of type string memory is not implicitly convertible to expected type bytes memory.

```
bytes4 methodSelector = bytes4(keccak256(methodSignature));
```

^-----^

Trading.sol:201:40: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
bytes4 methodSelector = bytes4(keccak256(methodSignature));
```

^-----^

Trading.sol:201:40: Warning: The provided argument of type string memory is not implicitly convertible to expected type bytes memory.

```
bytes4 methodSelector = bytes4(keccak256(methodSignature));
```

^-----^

Accounting.sol:176:9: Warning: Different number of components on the left hand side (5) than on the right hand side (6).

```
(gav, feesInDenomination, feesInShares, nav, ) = performCalculations();
```

^-----^

note.sol:37:9: Warning: Invoking events without "emit" prefix is deprecated.

```
LogNote(msg.sig, msg.sender, foo, bar, msg.value, msg.data);
```

^-----^

thing.sol:27:23: Warning: This function only accepts a single "bytes" argument. Please

```

use "abi.encodePacked(...)" or a similar function to encode the data.
    return bytes4(keccak256(s));
    ^-----^
thing.sol:27:23: Warning: The provided argument of type string memory is not
implicitly convertible to expected type bytes memory.
    return bytes4(keccak256(s));
    ^-----^
UpdatableFeed.i.sol:7:5: Warning: Functions in interfaces should be declared external.
    function getLastUpdateId() public view returns (uint);
    ^-----^
SimplePriceFeed.sol:138:27: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    emit PriceUpdated(keccak256(ofAssets, newPrices));
    ^-----^
group.sol:103:9: Warning: Invoking events without "emit" prefix is deprecated.
    Proposed(id, calldata);
    ^-----^
group.sol:112:9: Warning: Invoking events without "emit" prefix is deprecated.
    Confirmed(id, msg.sender);
    ^-----^
group.sol:121:9: Warning: Invoking events without "emit" prefix is deprecated.
    Triggered(id);
    ^-----^
CanonicalPriceFeed.sol:155:9: Warning: Invoking events without "emit" prefix is
deprecated.
    PriceUpdate(ofAssets, newPrices);
    ^-----^
KyberDependencies.sol:19:5: Warning: Functions in interfaces should be declared
external.
    function trade(
    ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:31:5: Warning: Functions in interfaces should be declared
external.
    function getConversionRate(ERC20Clone src, ERC20Clone dest, uint srcQty, uint
blockNumber) public view returns(uint);

^-----^
-----^
KyberDependencies.sol:36:5: Warning: Functions in interfaces should be declared
external.
    function maxGasPrice() public view returns(uint);
    ^-----^
KyberDependencies.sol:37:5: Warning: Functions in interfaces should be declared
external.
    function getUserCapInWei(address user) public view returns(uint);
    ^-----^
KyberDependencies.sol:38:5: Warning: Functions in interfaces should be declared
external.
    function getUserCapInTokenWei(address user, ERC20Clone token) public view
returns(uint);

```

```

^-----^
_ ^
KyberDependencies.sol:39:5: Warning: Functions in interfaces should be declared
external.
    function enabled() public view returns(bool);
    ^-----^
KyberDependencies.sol:40:5: Warning: Functions in interfaces should be declared
external.
    function info(bytes32 id) public view returns(uint);
    ^-----^
KyberDependencies.sol:42:5: Warning: Functions in interfaces should be declared
external.
    function getExpectedRate(ERC20Clone src, ERC20Clone dest, uint srcQty) public view
    ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:45:5: Warning: Functions in interfaces should be declared
external.
    function tradeWithHint(address trader, ERC20Clone src, uint srcAmount, ERC20Clone
dest, address destAddress,
    ^ (Relevant source part starts here and spans across multiple lines).
KyberDependencies.sol:94:9: Warning: Invoking events without "emit" prefix is
deprecated.
    TransferAdminPending(pendingAdmin);
    ^-----^
KyberDependencies.sol:104:9: Warning: Invoking events without "emit" prefix is
deprecated.
    TransferAdminPending(newAdmin);
    ^-----^
KyberDependencies.sol:105:9: Warning: Invoking events without "emit" prefix is
deprecated.
    AdminClaimed(newAdmin, admin);
    ^-----^
KyberDependencies.sol:116:9: Warning: Invoking events without "emit" prefix is
deprecated.
    AdminClaimed(pendingAdmin, admin);
    ^-----^
KyberDependencies.sol:127:9: Warning: Invoking events without "emit" prefix is
deprecated.
    AlerterAdded(newAlerter, true);
    ^-----^
KyberDependencies.sol:140:17: Warning: Invoking events without "emit" prefix is
deprecated.
        AlerterAdded(alerter, false);
        ^-----^
KyberDependencies.sol:152:9: Warning: Invoking events without "emit" prefix is
deprecated.
    OperatorAdded(newOperator, true);
    ^-----^
KyberDependencies.sol:165:17: Warning: Invoking events without "emit" prefix is
deprecated.
        OperatorAdded(operator, false);
        ^-----^

```

KyberDependencies.sol:188:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    TokenWithdraw(token, amount, sendTo);  
    ^-----^
```

KyberDependencies.sol:198:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    EtherWithdraw(amount, sendTo);  
    ^-----^
```

KyberDependencies.sol:330:5: Warning: Functions in interfaces should be declared external.

```
    function getExpectedRate(ERC20Clone src, ERC20Clone dest, uint srcQty) public view  
    ^ (Relevant source part starts here and spans across multiple lines).
```

KyberDependencies.sol:335:5: Warning: Functions in interfaces should be declared external.

```
    function handleFees (uint tradeWeiAmount, address reserve, address wallet) public  
    returns(bool);
```

```
^-----  
-----^
```

KyberDependencies.sol:340:5: Warning: Functions in interfaces should be declared external.

```
    function recordImbalance(  
    ^ (Relevant source part starts here and spans across multiple lines).
```

KyberDependencies.sol:348:5: Warning: Functions in interfaces should be declared external.

```
    function getRate(ERC20Clone token, uint currentBlockNumber, bool buy, uint qty)  
    public view returns(uint);
```

```
^-----  
-----^
```

KyberDependencies.sol:352:5: Warning: Functions in interfaces should be declared external.

```
    function getSanityRate(ERC20Clone src, ERC20Clone dest) public view returns(uint);  
    ^-----^
```

KyberDependencies.sol:384:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    Burn(msg.sender, _value);  
    ^-----^
```

KyberDependencies.sol:385:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    Transfer(msg.sender, address(0x0), _value);  
    ^-----^
```

KyberDependencies.sol:420:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    UserCategorySet(user, category);  
    ^-----^
```

KyberDependencies.sol:427:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    CategoryCapSet(category, sgdCap);  
    ^-----^
```

KyberDependencies.sol:434:9: Warning: Invoking events without "emit" prefix is

```

deprecated.
    SgdToWeiRateSet(_sgdToWeiRate);
    ^-----^
KyberDependencies.sol:450:5: Warning: Functions in interfaces should be declared
external.
    function transferFrom(address _from, address _to, uint _value) public returns
(bool);

^-----^
KyberDependencies.sol:451:5: Warning: Functions in interfaces should be declared
external.
    function burnFrom(address _from, uint256 _value) public returns (bool);
    ^-----^
KyberDependencies.sol:485:9: Warning: Invoking events without "emit" prefix is
deprecated.
    ReserveDataSet(reserve, feesInBps, kncWallet);
    ^-----^
KyberDependencies.sol:492:9: Warning: Invoking events without "emit" prefix is
deprecated.
    WalletFeesSet(wallet, feesInBps);
    ^-----^
KyberDependencies.sol:499:9: Warning: Invoking events without "emit" prefix is
deprecated.
    TaxFeesSet(_taxFeeBps);
    ^-----^
KyberDependencies.sol:506:9: Warning: Invoking events without "emit" prefix is
deprecated.
    TaxWalletSet(_taxWallet);
    ^-----^
KyberDependencies.sol:531:13: Warning: Invoking events without "emit" prefix is
deprecated.
    AssignFeeToWallet(reserve, wallet, walletFee);
    ^-----^
KyberDependencies.sol:535:13: Warning: Invoking events without "emit" prefix is
deprecated.
    AssignBurnFees(reserve, feeToBurn);
    ^-----^
KyberDependencies.sol:558:17: Warning: Invoking events without "emit" prefix is
deprecated.
    SendTaxFee(reserve, msg.sender, taxWallet, taxToSend);
    ^-----^
KyberDependencies.sol:566:9: Warning: Invoking events without "emit" prefix is
deprecated.
    BurnAssignedFees(reserve, msg.sender, (burnAmount - 1));
    ^-----^
KyberDependencies.sol:579:9: Warning: Invoking events without "emit" prefix is
deprecated.
    SendWalletFees(wallet, reserve, msg.sender);
    ^-----^
Weth.sol:21:9: Warning: Invoking events without "emit" prefix is deprecated.
    Deposit(msg.sender, msg.value);

```



```

^-----^
Weth.sol:27:9: Warning: Invoking events without "emit" prefix is deprecated.
    Withdrawal(msg.sender, wad);
    ^-----^

Weth.sol:31:16: Warning: Using contract member "balance" inherited from the address
type is deprecated. Convert the contract to "address" type to access the member, for
example use "address(contract).balance" instead.
    return this.balance;
           ^-----^

Weth.sol:36:9: Warning: Invoking events without "emit" prefix is deprecated.
    Approval(msg.sender, guy, wad);
    ^-----^

Weth.sol:58:9: Warning: Invoking events without "emit" prefix is deprecated.
    Transfer(src, dst, wad);
    ^-----^

Exchange.sol:3913:13: Warning: Invoking events without "emit" prefix is deprecated.
    Transfer(_from, _to, _value);
    ^-----^

WrapperDependencies.sol:76:5: Warning: Invoking events without "emit" prefix is
deprecated.
    Transfer(msg.sender, _to, _value);
    ^-----^

WrapperLock.sol:81:38: Warning: This function only accepts a single "bytes" argument.
Please use "abi.encodePacked(...)" or a similar function to encode the data.
    require(isValidSignature(keccak256(msg.sender, address(this),
signatureValidUntilBlock), v, r, s));

^-----^

WrapperLock.sol:125:9: Warning: Invoking events without "emit" prefix is deprecated.
    Transfer(_from, _to, _value);
    ^-----^

WrapperLock.sol:149:13: Warning: This function only accepts a single "bytes" argument.
Please use "abi.encodePacked(...)" or a similar function to encode the data.
    keccak256("\x19Ethereum Signed Message:\n32", hash),
    ^-----^

WrapperLock.sol:162:16: Warning: This function only accepts a single "bytes" argument.
Please use "abi.encodePacked(...)" or a similar function to encode the data.
    return keccak256(_sender, _wrapper, _validTill);
           ^-----^

WrapperLockEth.sol:69:38: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    require(isValidSignature(keccak256(msg.sender, address(this),
signatureValidUntilBlock), v, r, s));

^-----^

WrapperLockEth.sol:98:9: Warning: Invoking events without "emit" prefix is deprecated.
    Transfer(_from, _to, _value);
    ^-----^

WrapperLockEth.sol:121:13: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    keccak256("\x19Ethereum Signed Message:\n32", hash),

```

```

^-----^
WrapperLockEth.sol:134:16: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    return keccak256(_sender, _wrapper, _validTill);
    ^-----^
KyberNetwork.sol:34:9: Warning: Invoking events without "emit" prefix is deprecated.
    EtherReceival(msg.sender, msg.value);
    ^-----^
KyberNetwork.sol:95:13: Warning: Invoking events without "emit" prefix is deprecated.
    AddReserveToNetwork(reserve, true);
    ^-----^
KyberNetwork.sol:103:21: Warning: Invoking events without "emit" prefix is deprecated.
    AddReserveToNetwork(reserve, false);
    ^-----^
KyberNetwork.sol:127:13: Warning: Invoking events without "emit" prefix is deprecated.
    ListReservePairs(reserve, ETH_TOKEN_ADDRESS, token, add);
    ^-----^
KyberNetwork.sol:138:13: Warning: Invoking events without "emit" prefix is deprecated.
    ListReservePairs(reserve, token, ETH_TOKEN_ADDRESS, add);
    ^-----^
KyberNetwork.sol:191:9: Warning: Invoking events without "emit" prefix is deprecated.
    KyberProxySet(kyberNetworkProxyContract, msg.sender);
    ^-----^
KyberNetwork.sol:426:9: Warning: Invoking events without "emit" prefix is deprecated.
    KyberTrade(tradeInput.trader, tradeInput.src, actualSrcAmount,
tradeInput.destAddress, tradeInput.dest,
    ^ (Relevant source part starts here and spans across multiple lines).
ExpectedRate.sol:24:9: Warning: Invoking events without "emit" prefix is deprecated.
    QuantityFactorSet(newFactor, quantityFactor, msg.sender);
    ^-----^
ExpectedRate.sol:33:9: Warning: Invoking events without "emit" prefix is deprecated.
    MinSlippageFactorSet(bps, worstCaseRateFactorInBps, msg.sender);
    ^-----^
Participation.i.sol:40:5: Warning: Functions in interfaces should be declared
external.
    function hasRequest(address) view returns (bool);
    ^-----^
Participation.i.sol:44:5: Warning: Functions in interfaces should be declared
external.
    function redeemWithConstraints(uint shareQuantity, address[] requestedAssets)
public;

^-----^
GivethBridge.sol:50:9: Warning: Invoking events without "emit" prefix is deprecated.
    OwnershipRequested(msg.sender, newOwnerCandidate);
    ^-----^
GivethBridge.sol:62:9: Warning: Invoking events without "emit" prefix is deprecated.
    OwnershipTransferred(oldOwner, owner);
    ^-----^
GivethBridge.sol:76:9: Warning: Invoking events without "emit" prefix is deprecated.
    OwnershipTransferred(oldOwner, owner);

```

```

^-----^
GivethBridge.sol:88:9: Warning: Invoking events without "emit" prefix is deprecated.
OwnershipRemoved();
^-----^
GivethBridge.sol:156:9: Warning: Invoking events without "emit" prefix is deprecated.
EscapeHatchBlackistedToken(_token);
^-----^
GivethBridge.sol:177:23: Warning: Using contract member "balance" inherited from the
address type is deprecated. Convert the contract to "address" type to access the
member, for example use "address(contract).balance" instead.
    balance = this.balance;
            ^-----^
GivethBridge.sol:179:13: Warning: Invoking events without "emit" prefix is deprecated.
EscapeHatchCalled(_token, balance);
^-----^
GivethBridge.sol:186:9: Warning: Invoking events without "emit" prefix is deprecated.
EscapeHatchCalled(_token, balance);
^-----^
GivethBridgeAdapter.sol:39:9: Warning: Return value of low-level calls not used.
bridge.call(
    ^ (Relevant source part starts here and spans across multiple lines).
GivethBridgeAdapter.sol:51:9: Warning: Invoking events without "emit" prefix is
deprecated.
    Donated(msg.sender, donationAsset, donationQuantity);
    ^-----^
GivethBridgeAdapter.sol:81:9: Warning: Return value of low-level calls not used.
bridge.call(abi.encodeWithSignature(
    ^ (Relevant source part starts here and spans across multiple lines).
GivethBridgeAdapter.sol:89:9: Warning: Invoking events without "emit" prefix is
deprecated.
    Donated(msg.sender, donationAsset, donationQuantity);
    ^-----^
KyberNetworkProxy.sol:7:5: Warning: Functions in interfaces should be declared
external.
    function maxGasPrice() public view returns(uint);
    ^-----^
KyberNetworkProxy.sol:8:5: Warning: Functions in interfaces should be declared
external.
    function getUserCapInWei(address user) public view returns(uint);
    ^-----^
KyberNetworkProxy.sol:9:5: Warning: Functions in interfaces should be declared
external.
    function getUserCapInTokenWei(address user, ERC20Clone token) public view
returns(uint);

^-----^
-^
KyberNetworkProxy.sol:10:5: Warning: Functions in interfaces should be declared
external.
    function enabled() public view returns(bool);
    ^-----^

```

KyberNetworkProxy.sol:11:5: Warning: Functions in interfaces should be declared external.

```
function info(bytes32 id) public view returns(uint);  
^-----^
```

KyberNetworkProxy.sol:13:5: Warning: Functions in interfaces should be declared external.

```
function getExpectedRate(ERC20Clone src, ERC20Clone dest, uint srcQty) public view  
^ (Relevant source part starts here and spans across multiple lines).
```

KyberNetworkProxy.sol:16:5: Warning: Functions in interfaces should be declared external.

```
function tradeWithHint(ERC20Clone src, uint srcAmount, ERC20Clone dest, address  
destAddress, uint maxDestAmount,  
^ (Relevant source part starts here and spans across multiple lines).
```

KyberNetworkProxy.sol:23:5: Warning: Functions in interfaces should be declared external.

```
function swapTokenToToken(ERC20Clone src, uint srcAmount, ERC20Clone dest, uint  
minConversionRate) public returns(uint);
```

```
^-----  
-----^
```

KyberNetworkProxy.sol:24:5: Warning: Functions in interfaces should be declared external.

```
function swapEtherToToken(ERC20Clone token, uint minConversionRate) public payable  
returns(uint);
```

```
^-----  
-----^
```

KyberNetworkProxy.sol:25:5: Warning: Functions in interfaces should be declared external.

```
function swapTokenToEther(ERC20Clone token, uint srcAmount, uint  
minConversionRate) public returns(uint);
```

```
^-----  
-----^
```

KyberNetworkProxy.sol:213:9: Warning: Invoking events without "emit" prefix is deprecated.

```
ExecuteTrade(msg.sender, src, dest, tradeOutcome.userDeltaSrcAmount,  
tradeOutcome.userDeltaDestAmount);
```

```
^-----  
-----^
```

KyberNetworkProxy.sol:223:9: Warning: Invoking events without "emit" prefix is deprecated.

```
KyberNetworkSet(_kyberNetworkContract, kyberNetworkContract);  
^-----^
```

KyberPriceFeed.sol:64:9: Warning: Invoking events without "emit" prefix is deprecated.

```
PriceUpdate/assets, newPrices);  
^-----^
```

KyberReserve.sol:28:9: Warning: Invoking events without "emit" prefix is deprecated.

```
DepositToken(ETH_TOKEN_ADDRESS, msg.value);  
^-----^
```

```

KyberReserve.sol:64:9: Warning: Invoking events without "emit" prefix is deprecated.
    TradeEnabled(true);
    ^-----^

KyberReserve.sol:71:9: Warning: Invoking events without "emit" prefix is deprecated.
    TradeEnabled(false);
    ^-----^

KyberReserve.sol:79:35: Warning: This function only accepts a single "bytes" argument.
Please use "abi.encodePacked(...)" or a similar function to encode the data.
    approvedWithdrawAddresses[keccak256(token, addr)] = approve;
                                ^-----^

KyberReserve.sol:80:9: Warning: Invoking events without "emit" prefix is deprecated.
    WithdrawAddressApproved(token, addr, approve);
    ^-----^

KyberReserve.sol:94:9: Warning: Invoking events without "emit" prefix is deprecated.
    NewTokenWallet(token, wallet);
    ^-----^

KyberReserve.sol:100:43: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    require(approvedWithdrawAddresses[keccak256(token, destination)]);
                                ^-----^

KyberReserve.sol:108:9: Warning: Invoking events without "emit" prefix is deprecated.
    WithdrawFunds(token, amount, destination);
    ^-----^

KyberReserve.sol:130:9: Warning: Invoking events without "emit" prefix is deprecated.
    SetContractAddresses(kyberNetwork, conversionRatesContract,
sanityRatesContract);

^-----^
KyberReserve.sol:138:20: Warning: Using contract member "balance" inherited from the
address type is deprecated. Convert the contract to "address" type to access the
member, for example use "address(contract).balance" instead.
    return this.balance;
        ^-----^

KyberReserve.sol:252:9: Warning: Invoking events without "emit" prefix is deprecated.
    TradeExecute(msg.sender, srcToken, srcAmount, destToken, destAmount,
destAddress);

^-----^
ManagementFee.sol:23:127: Warning: Using "years" as a unit denomination is deprecated.
    uint preDilutionFeeShares = mul(mul(shares.totalSupply(),
managementFeeRate[msg.sender]) / DIVISOR, timePassed) / 1 years;

^-----^
MatchingMarket.sol:119:13: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    keccak256(offers[id].pay_gem, offers[id].buy_gem),
    ^-----^

MatchingMarket.sol:117:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogBump(
    ^ (Relevant source part starts here and spans across multiple lines).

```

MatchingMarket.sol:155:13: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogItemUpdate(id);  
    ^-----^
```

MatchingMarket.sol:158:17: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
    keccak256(offer.pay_gem, offer.buy_gem),  
    ^-----^
```

MatchingMarket.sol:156:13: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogTake(  
      ^ (Relevant source part starts here and spans across multiple lines).
```

MatchingMarket.sol:167:13: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogTrade(quantity, offer.pay_gem, spend, offer.buy_gem);  
    ^-----^
```

MatchingMarket.sol:189:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogItemUpdate(id);  
    ^-----^
```

MatchingMarket.sol:192:13: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
    keccak256(offer.pay_gem, offer.buy_gem),  
    ^-----^
```

MatchingMarket.sol:190:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogKill(  
      ^ (Relevant source part starts here and spans across multiple lines).
```

MatchingMarket.sol:249:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogItemUpdate(id);  
    ^-----^
```

MatchingMarket.sol:252:13: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
    keccak256(pay_gem, buy_gem),  
    ^-----^
```

MatchingMarket.sol:250:9: Warning: Invoking events without "emit" prefix is deprecated.

```
    LogMake(  
      ^ (Relevant source part starts here and spans across multiple lines).
```

MatchingMarket.sol:353:23: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
    require(_menu[keccak256(buy_gem, pay_gem)] || _menu[keccak256(pay_gem,  
buy_gem)]);  
    ^-----^
```

MatchingMarket.sol:353:61: Warning: This function only accepts a single "bytes" argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.

```
    require(_menu[keccak256(buy_gem, pay_gem)] || _menu[keccak256(pay_gem,  
buy_gem)]);
```

```
    ^-----^
```

```
^
```

```

MatchingMarket.sol:492:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogInsert(msg.sender, id);
    ^-----^

MatchingMarket.sol:504:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogDelete(msg.sender, id);
    ^-----^

MatchingMarket.sol:523:15: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    _menu[keccak256(baseToken, quoteToken)] = true;
    ^-----^

MatchingMarket.sol:524:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogAddTokenPairWhitelist(baseToken, quoteToken);
    ^-----^

MatchingMarket.sol:542:22: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    delete _menu[keccak256(baseToken, quoteToken)];
    ^-----^

MatchingMarket.sol:543:22: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    delete _menu[keccak256(quoteToken, baseToken)];
    ^-----^

MatchingMarket.sol:544:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogRemTokenPairWhitelist(baseToken, quoteToken);
    ^-----^

MatchingMarket.sol:556:23: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    return (_menu[keccak256(baseToken, quoteToken)] || _menu[keccak256(quoteToken,
baseToken)]);
    ^-----^

MatchingMarket.sol:556:66: Warning: This function only accepts a single "bytes"
argument. Please use "abi.encodePacked(...)" or a similar function to encode the data.
    return (_menu[keccak256(baseToken, quoteToken)] || _menu[keccak256(quoteToken,
baseToken)]);
    ^-----^

MatchingMarket.sol:574:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogMinSell(pay_gem, dust);
    ^-----^

MatchingMarket.sol:592:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogBuyEnabled(buyEnabled);
    ^-----^

MatchingMarket.sol:605:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogMatchingEnabled(matchingEnabled);
    ^-----^

```

```

MatchingMarket.sol:904:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogUnsortedOffer(id);
    ^-----^
MatchingMarket.sol:959:9: Warning: Invoking events without "emit" prefix is
deprecated.
    LogSortedOffer(id);
    ^-----^
TestingPriceFeed.sol:44:9: Warning: Invoking events without "emit" prefix is
deprecated.
    PriceUpdate(_assets, _prices);
    ^-----^
Accounting.i.sol:18:5: Warning: No visibility specified. Defaulting to "public". In
interfaces it defaults to external.
    function calcNav(uint gav, uint unclaimedFees) pure returns (uint);
    ^-----^
PriceSource.i.sol:19:5: Warning: No visibility specified. Defaulting to "public". In
interfaces it defaults to external.
    function getPriceInfo(address _asset) view returns (uint price, uint decimals);
    ^-----^
PriceSource.i.sol:20:5: Warning: No visibility specified. Defaulting to "public". In
interfaces it defaults to external.
    function getInvertedPriceInfo(address ofAsset) view returns (uint price, uint
decimals);
    ^-----^
    ^-----^
    ^-----^
Warning: There are more than 256 warnings. Ignoring the rest.
Contract name duplication detected: /home/willie/github/midas/protocol/out/Owned.abi.
Please make sure that every contract is uniquely named across all directories.
Done in 158.63s.
yarn run v1.17.3
$ rimraf lib
$ tsc -p tsconfig.json && tscpaths -p tsconfig.json -s ./src -o ./lib > /dev/null
$ yarn bundle
$ rollup -c

lib/index.js → lib/index.umd.js...
created lib/index.umd.js in 78ms
Done in 15.11s.

```

# End.