

Options available to the Verus RPC client.

[illegible]

Options

```

This file manages

#confdir: Rapidly configuration file (default: /etc/hosts.conf)
#datadir: Rapidly data directory

#network: Use the local network

#request: Enter regression test mode, which uses a special chain in which blades can be tested instantly. This is intended for regression testing tools and
any development.

#regressionrpc: Bind commands to make testing on (default: 127.0.0.1)

#regserverrpc: Connect to REGRPC on (default: 62552 or listen: 16252)

#rpcurl: URL for RPC server to start

#rpcserver: Username for REGRPC/RPC connections

#rpcurl: Password for REGRPC/RPC connections

#rpcurl: Forward in seconds during HTTP requests, on 0 for no forward.

```

Commands:

Addressindex

```
getAddressBalance

>Returns the balance for an address(es) (requires address(es) to be enabled).

Arguments:

{
  "addresses"
  |
  "addresses" (string) The hexadecimal encoded address
}

Result

{
  "balance" (string) The current balance in satoshis
  "received" (string) The total number of satoshis received (including change)
}
```

[illegible]

getaddressdelta as

```

//Returns an array of changes for an address (requires address to be enabled)
//Arguments:
//  *address* (string) The hexadecimal account address
//  *start* (number) The start block height
//  *end* (number) The end block height
//  *includeTransactions* (boolean) Include tx results, only applies if start and end specified
//  *transactionTypes* (number) Include an optional array of transaction types to return a transaction
//  *includeData* (boolean) Include an optional array of include asset information for assets, including all export assets
//  *destination* (string) Optional destination address
//Returns:
//  *changes* (array) The difference of assets
//  *total* (number) The total sum
//  *totalValue* (number) The total value or output sum
//  *heights* (number) The block heights
//  *addresses* (array) The hexadecimal account addresses

```

```
Examples

> xerox.grain.resolve(x, "address", ["file:///usr/share/doc/gnupg/gnupg-4.4.7/"])
> curl -u user:password -data binary ("image", "LJ", "id"/"url/dest", "method", "grain.resolve(x, "xerox",
["address", "file:///usr/share/doc/gnupg/gnupg-4.4.7/"]) > content-type: text/plain http://127.0.0.1:27
444/
```

```
getaddressmempool
```

[illegible]

```

> curl -s -u user:password -data-binary '{"source": "A", "id": "urltest", "method": "get address endpoint", "param": "1", "addresses": ["https://www.google.com/gadgets/gadget-MP"]}' -H 'Content-Type: text/plain' http://127.0.0.1:27440/

```

getaddressidx

```
{
  "address"
  "address" (string) The broadcast address
  ""
  "start" (number) The start block height
  "end" (number) The end block height
}
```

Result

```
{
  "transactionId" (string) The transaction id
  ""
}
```

[illegible]

getaddressutxo:

```

//Returns an output object for an address (negative addresses to be avoided)
Arguments:
{
  "address": // (string) The hexadecimal account address
  "options": // (Object) Includes fields such as:
    "fromAddress": // (string) Includes address string of FromAddress name input by currency 1 address
    "fromCurrency": // (string) (optional) If it is 0, it includes output information for the account, including, but not limited to, assets and derivatives
    "to": // (string) (optional) If it is 0, it includes output information for the account, including, but not limited to, assets and derivatives
}
Result:
{
  "address": // (string) The address hexadecimal account
  "hash": // (string) The output hash
  "height": // (int) The block height
  "confirmations": // (int) The confirm count
  "script": // (string) The script hex encoded
  "script": // (string) The script hex encoded
  "subsidy": // (number) The number of satoshis of the output
}

```

```
> curl -s --get http://www.google.com/search?q=example.com
```

get snapshot

[illegible]

```
> varnish geturlshost  

> curl -s -o /dev/null --max-time 10 --data-binary '{"source": "B.B.", "url"/<urlhost>', "method": "geturlshost", "params": [{"  

    688] }' -H 'content-type: text/plain' http://192.8.8.8:27080/
```

Blockchain

coinsupply (height)

```

1  'length' (integer, optional) Block height
Result
{
  "result": "success",
  "height": 500,
  "supply": 731.4,
  "total": 731.4,
  "supply": 731.4,
  "total": 731.4
}

```

```
> curl -X GET http://localhost:8080/v1/users/123 --header 'Content-Type: application/json' --data '{"name": "John Doe", "email": "john.doe@example.com"}'
```

getbestblockhash

```

1  # Import the hashlib module from the hashlib library
2  import hashlib
3
4  # Create a SHA-256 hash object
5  hash_obj = hashlib.sha256()
6
7  # Update the hash object with the data to be hashed
8  hash_obj.update(b'Hello, World!')
9
10 # Get the hexadecimal representation of the hash
11 hex_hash = hash_obj.hexdigest()
12
13 # Print the hexadecimal representation of the hash
14 print(hex_hash)

```

```
getblock "hash|height" ( verbosity )
```

1. "hand/height" (wing, required) The black band or height

data (string): A string that is serialized, base-encoded data for the block.

Results (for verbosity = 1):

```

"year" : "year",           (creating the blank hand (same as provided hand))
"transmission" : "A",     (creating the transmission line, -1 if the blank is not on the main shaft)
"diffRatio" : "5.0",       (creating the diff ratio, -1 if the blank is not on the main shaft)
"shaft" : "A",            (creating the shaft height or index (same as provided height))
"rotation" : "1",         (creating the rotation line, -1 if the blank is not on the main shaft)
"acceleration" : "year",  (creating the acc line)
"fixationPoint" : "year", (creating the top of the leading assembly tree after applying this blank
                           [even if creating the transmission line])
"transmission" : "A",     (creating the transmission line)
{
  ...
  "year" : "year",        (creating the blank time in seconds time speech (line 1 NEW ONE))
  "transmission" : "A",   (creating the transmission line)
  "shaft" : "shaft",      (creating the shaft)
  "diffRatio" : "year",    (creating the diffRatio)
  "rotationPoint" : "year", (creating the base of the previous blank)
}

```

```

"nestlechuck" : "huck"      (string) The huck of the nest block
}
}

```

Result (for verbosity = 2):

```

{
  +----+
  |      |      |      |      |      |      | |
  | [ 1 ] : [      |      |      |      |      |      |      |
  |         |      |      |      |      |      |      |
  | +-----+-----+-----+-----+-----+-----+
  | + Verbosity = 1 "to" results.
  |
  | }
  |
  | }
}

```

```

    save output as versioning = k;
}

```

[illegible]

[illegible]

[illegible]

To create a currency of any kind, the identity it is named after must be listed as the blockholder on which the currency is created. Once a currency is allocated for an identity name, the same symbol may not be used for another currency or blockholder, even if the identity is bracketed, evicted or reassigned, unless there is an explicit symbol and the currency or blockholder has deactivated as if dead and black.

```
Result:
{
  "id": "transactionId",      (string) The transaction id
  "tx" : "join",             (json) The transaction decided as a transaction
  "tx" : "data"              (string) Raw data for signed transaction
}
```

```
x = xref::new_currency [testfunction]
x url :: our system :: data binary '[{"jump": "k.f.", "id": "urltest", "method": "definecurrency", "param": "[[xdefFunction]]"}]' <| context-type: text/plain> http://127.0.0.1:27862/
```

Argumenta

<code>^precision^: "false",</code>	(bool, optional)	Convert to currency at market price (default=false), only works if transaction is closed before start of currency
<code>^via^: "name",</code>	(string, optional)	If source and destination currency are reverses, via is a common f

Result
1

```

> vars = extendvars(vars1, "country", "name", "conversion", "sum", "all")
> url = user moderate ++ database ("country", "URL", "all", "urltest"), "method": "extendvars", "vars"

```

getbestproofroot {"proofroots":[{"version":n,"type":n,"systemid":"current"}]}

Determines and returns the index of the best (most recent, valid, qualified) proof root in the list of proof roots, and the root's name, valid proof root.

```

"proofroots":      (array, required/may be empty) ordered array of proof roots, indexed as return
{
  "version":       (int, required) version of this proof root data structure

```

<code>seq</code>	<code>"blackhash"/"hexstr"</code>	(hexstr, required) hash identifier for the specified block/sequence
	<code>"peer"/"hexstr"</code>	(hexstr, required) url, sha1, or combination of the two for each url/text you
<code>no solo</code>		

<pre> } "currency": "USD" "lastConfirmed": 1 </pre>	<pre> (array, optional) currency to query for currency status (int, required) index into the proof root array indicating the last confirmed re </pre>
---	---

(objekt) latest valid proof/proof of state/currency status
(obj) currency status of target currency and published bridges
Examples

[illegible]

Argument:

<pre>{ "version" : 0, "name" : "chain" }</pre>	<pre>{let} version of this chain definition {chain} some one control of this chain, some one record</pre>
--	---

<code>"currencyidhex" : "ba",</code>	<code>(string) ba</code> representation of currency ID, getcurrency API supports "ba
<code>,"currencyidhex"</code>	
<code>"parent" : "%i.address",</code>	<code>(string) parent blockchain ID</code>
<code>},</code>	

as proofs	(1) block 4 on this chain, which must be notarized into block one of t
"startblock" : n ₁	(2) block 4 on this chain, which must be notarized into block one of t
be chain	(3) block 4 on this chain, which must be notarized into block one of t
"endblock" : n ₂	(4) block 4 on this chain, which must be notarized into block one of t

<code>weights = [w1, ..., wn]</code>	(numberarray) column vectors weights (only needed in a sequential <code>minimize</code>)
<code>"conversion" : [c1, ..., cn]</code>	(numberarray) pre-launch conversion rates for non-fractional currencies
<code>"dispreconversion" : [d1, ..., dn]</code>	(numberarray) minimum amounts required in pre-conversion, for currency <code>k</code>

"initialsupply": s_1	(number) initial currency supply for fractional currencies before prelaunch
"prelaunchevent": s_1	(number) pre-launch percentage of proceeds for fractional currency sale

* <i>isoperifone</i> * : π_1	(<i>isoperifone</i>) <i>isoperifone</i> (being the <i>isoperifone</i> <i>isoperifone</i> <i>isoperifone</i> <i>isoperifone</i>)
Real chains and flux	(<i>number</i>) flux required to import an ID to this system (only for native ID)
* <i>area</i> * : $\{[ab]_1, \dots\}$	(<i>ab[area]</i>) different chain phases of records and convertibility

`graphons` = $[g_1, \dots, g_n]$, (list) options (optional)

`nodes` = $[n_1, \dots, n_m]$, (objectarray, optional) up to 8 nodes that can be used to connect to the blackish

```

    testid = testid + 1
}
"testid" = "testid"
}
}
}

```

Examples

getcurrencyconverters ["currency1", "currency2", ...]

Returns all currencies that have at least 1000 USD in reserve, are >10% USD-reserve ratio, and have all listed currencies as

```
current state
```

```
getcurrencystate "currencynameid" ("n") ("connectedsystemid")
```

3. 'unaccommodated' (string) optional

```
x vers: getcurrentstate "currentstate" ("v") ("connectshimio")
x curl -u user:password -data-binary '{"@comp": "B.B", "id": "urltest", "method": "getcurrentstate", "param": {"currentstate": "v"}}' -H 'content-type: text/plain' http://192.8.8.1:2344/
```


Arguments	
" <i>correspond</i> ", ...]	(<i>corresp</i> , optional) if specified, only returns rating values for specified correspondences, otherwise all

```
{
  "ratings": [{"id": 100, "rating": 1}], // (id) is an Illustrations key/value object
  "currentPrice": 100 // (id) is a no restriction on type, 1 is only type to the rated
  // amount, 1 is type to all the but those on black list
}
```

```
i varr getvarrrybreak ["varrryID",...]
i curl --user appteam --data binary ["@varr": "%d", "%d"/%varbreak", %total": %getvarrrybreak", "varr  
id": ["["varrryID",...]]"] -H "content-type: text/plain" http://10.7.8.6:2780/
```

getexports "chainname" (heightstart) (heightend)

Returns pending export transfers to the specified currency from start height to end height if specified

\$ Arguments:	
1. "chainName"	(string, optional) name of the chain to look for, no parameter returns current chain in action.
2. "heightStart"	(int, optional) default=0 only return experts at or above this height
3. "heightEnd"	(int, optional) default=mainHeight only return experts below or at this height

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```

```

> source(gitrepo % "shadname")
> curl --user mysystem --data-binary '{"jsonrpc": "2.0", "id": "shadname", "method": "getports", "params": [{"shadname": ""]}' -H 'content-type: text/plain' http://10.10.10.1:27980/

```

`getimports "chainname" (startheight) (endheight)`

Returns all imports into a specific currency, optionally that were imported between a specific block range.

Arguments	
1. 'chainname'	(string, optional) name of the chain to look for, no parameter returns current chain is <code>chain.is.damon</code> .
2. 'height'	(int, optional) default only return experts at or above this height.
3. 'heights'	(int, optional) default=heights only return experts below or at this height.

[illegible]

```

+ virus.getImports("chaincode")
+ curl --user myusername --data-binary '{"@jsonrpc": "2.0", "id": "chaincode", "method": "getImports", "params": [{"chaincode": ""]} --in --content-type: text/plain)' http://192.168.1.27:7040/

getinitialcrvprivstate "name"

```

Returns the total amount of precommitments that have been confirmed on the blockchain for the specified P2SH chain. This should be used to get information about chains that are not this chain, but are being launched by it.

name (string, required) name or chain ID of the chain to get the export transactions for

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```

```

> curl -s -u myuser:mytoken --data-binary '{"@source": "curl", "id": "curltest", "method": "getInitialCurrencyState", "params": {"name": "USD"}, "context-type": "test/gdata"}' http://127.0.0.1:2384/

```

getlastimportfrom "systemname"

Returns the last import from a specific originating system.

Recommendation:

Arguments	
"systemname"	(string, required) name or ID of the system to retrieve the last import from

Result

```
{
  "lastimport" : (object) last import from the indicated system on this chain
```

```
{
  "taskconfirmedmeterlocation" : "(idk)" task confirmed meterlocation of the indicated system on this chain
}
```

getlaunchinfo "currencyid"

Returns the launch information data and partial transaction proof of the launch information for the specified currencyid

Arguments:

1. "currencyid" (string, required) The hex encoded ID or string name search for information on

Result

```

"currentRetraction": {
  "label": "current",
  "value": "a",
  "transactionProof": {},
  "sanctionedRetraction": {},
  "retortRetraction": {}
}

```

```
var geneInfo = "currencyc"
var user = userAppropriate_dataLibrary["currencyc", "L", "R", "left", "right", "head", "getCurrencyInfo", "varname"]
var userAppropriate_dataLibrary["currencyc", "L", "R", "left", "right", "head", "getCurrencyInfo", "varname"]

getInfoFromData("currencyc") (getCurrencyInfo) (separateCounterEvidence)

// use the PMap reduction data to be applied on each
Appends

1. "currencyc" (setting, optional) the two nested (L or R) using new search for information as
2. "getCurrencyInfo" (func, optional) if true, returns retrievable evidence as well as other data
3. "separateCounterEvidence" (func, optional) if true, counter-evidence is processed and returned with prev
4. "varname" (varname, optional) if true, returns the variable name

Result

1. "varname" = x, (over) the information processed version

Examples

var geneInfo = "currencyc"
var user = userAppropriate_dataLibrary["currencyc", "L", "R", "left", "right", "head", "getCurrencyInfo", "varname"]
var userAppropriate_dataLibrary["currencyc", "L", "R", "left", "right", "head", "getCurrencyInfo", "varname"]

getInfoFromData("currencyc") (getCurrencyInfo) (separateCounterEvidence)

// use the PMap reduction data to be applied on each
Appends

1. "currencyc" (setting, optional) the two nested (L or R) using new search for information as
2. "getCurrencyInfo" (func, optional) if true, returns retrievable evidence as well as other data
3. "separateCounterEvidence" (func, optional) if true, counter-evidence is processed and returned with prev
4. "varname" (varname, optional) if true, returns the variable name

Result

1. "varname" = x, (over) the information processed version

Examples
```

getnotarizationproofs (json object)

Returns proofs for a subset of requested challenges. Some proofs can either independently or in combination with other proofs ever time invalidate or force a competing chain to provide more proofs in order to confirm any pending cross chain notation of an alternate chain that may not merge with us.

Arguments:

```

    {
      "type": "error", "evidence": skipChallenge } }
    }
  }
}

```

[illegible]

Result:

```
[{"evidence": [{"Dictionary": ..., ...}] (array) return evidence challenges, including proofs for challenges request
```

Examples:

```
> www.getmaterialsgroups["[{"type": "CephidBacterial", "evidence": {"BinaryEvidence": {"presence": "absent"}, "height": "t"}}, ...]
```

```
> curl -o-er systemone --data-binary "[{"sample": "LAF", "id": "cebid", "method": "getmaterialsgroups", "p  
arams": [{"type": "CephidBacterial", "evidence": {"BinaryEvidence": {"presence": "absent"}, "height": "t"}, "strai  
ght": "t"}], ...]" -H "content-type: text/plain;" http://107.8.6.2:9080/
```

`getpendingtransfers "chainname"`

Returns all pending transfers for a particular chain that have not yet been aggregated into an export.

Arguments:

```
1. "chainname" (string, optional) name of the chain to look for, no parameter returns current chain is damn.
```

```
getreservdeposits "currencyname"
```

1. "currencyname" (string, optional) full name or i-18n of controlling currency

[illegible]

```
> vers = getpeerinfo
> curl --user myusername --data-binary '{"jsonrpc": "1.0", "id": "curltest", "method": "getpeerinfo", "params": []}' -H 'Content-type: text/plain;' http://127.0.0.1:25808/
```

ListBanned

List all banned IP's/hosts.

Examples:

```
+ vms: ListBanned
+ curl -s -u $username -d $binary "[\"example\": {\"ip\": \"1.1.1.1\", \"url\": \"url\", \"name\": \"ListBanned\", \"param\": []}]\""
```

```
1 # 'content-type: text/html' http://k27.d.o.s-2016/
```

```
➤ curl -s -u user:password --data-binary '{"url": "http://127.0.0.1:2080", "method": "ping", "param": {}}' -H 'Content-Type: text/plain'
```

```
setban "ip(/netmask)*" "add|remove" (bantime) (absolute)
```

Arguments:

- '`type`' (required) `'dlog'`, requires the `PSModel` (see `getmodels`) for models `'c'` with a optional network (default is `32 + single`)
- '`summary`' (dlog, required) `'add'` to add a `PSModel` to the list, `'remove'` to remove a `PSModel` from the list
- '`hardcore`' (numeric, optional) `'true'` to search how long for `loglik` until `getmodels` is hit (or `'is'` is learned) (if empty means `search` for a default level of 25k which can also be overruled by the `hardcore` (dlog argument))
- '`absolute`' (boolean, optional) `'true'`, the `hardcore` must be an absolute timepoint in seconds since epoch (Jan 1 1970 GMT)

Keywords:

[illegible]

Rawtransactions

```
createTransaction [{ "txid": "id", "vout": n }, ... ] { "address": amount, ... }
```

From that the transaction's inputs are not signed, and
it is not stored in the wallet or transmitted to the network.

```

1. Transactions (string, required): An array of json objects
{
  "id": "id", // (string, required) The transaction id

```

```

    ^end^is      (-numeric, required) The output number
    ^sequence^is (-numeric, optional) The sequence number
}

```

2. "addresses" (being required) a pair signal with addresses as keys and amounts as values

```

    "address": 8.000 (numeric, required) The key in the Redis address, the value is the MSG amount
  }
}

```

6. `expiryheight` [numeric, optional, default=medlockheight-20 (see [Bitcoin](#)) or medlockheight-20 (see [Bitcoin](#))] Expiry height -
 canonical (if Overblake is active)

Examples

```
> vers.createAttachment(["/file1"/,"qpid","/out"/,"0"],["/address"/,"0.0"])
> curl -s -u myname :dataLibrary ["/query"/,"0.0","/id"/,"out0",,"/out0"/,"createAttachment",,"?name=","/file1"/,"qpid","/out"/,"0"],["/address"/,"0.0"],"]" -H "content-type: text/plain" http://10.0.0.1:2000/
```

```
decoder.transaction "hexstring"
```

Arguments:

1. "Yes" (string, required) The identifier has string

Example:

```
{
  "txid" = "id",           (string) The transaction id
  "timestamp" = hex,      (integer) The timestamp (from
                           bitcoind)
```

```

"version" = x,      (numeric) The version
"versiongroup" = "as" (string, optional) The version group id (for clustered test)
"incitem" = 000,    (numeric) The lock time
"expiryheight" = x, (numeric, optional) Last valid block height for mining transaction (for clustered test)

```

```

var: {
  (array of json objects)
  {
    "id": "id",      (string) The transaction id
    "out": n,       (number) The output number
    "scriptSig": {  (json object) The script

```

```

"ans": "ans", (string) ans
"has": "has" (string) has
},
"sequence": n (numeric) The script sequence number

```

$$[\begin{matrix} 1 \\ \vdots \\ i_1 \\ \text{"ack"} : [\end{matrix}] \quad (\text{array of jsm objects})$$

<code>^value^ : x.xxx,</code>	<code>(number) the value in 1000</code>
<code>^n^ : n,</code>	<code>(number) index</code>
<code>^scriptability^ : {</code>	<code>{(json object)}</code>
<code>^an^ : ^an^,</code>	<code>(string) the an</code>
<code>^bn^ : ^bn^,</code>	<code>(string) the bn</code>

```

"reqflag" : 0,           (numeric) the required flag
"type" : "pubkeyhash",  (string) the type, eg "pubkeyhash"
"addresses" : [          (json array of string)
  "03206f1779a48a0c4b44047c4a1a9f" (string) known address

```

```

    'yepuplink' : {           (array of json objects, only for version >= 2)
    {
        'yepup_id' : 1.000,    (numeric) public input value in 000
        'yepup_msc' : 1.000,  (numeric) public output value in 000
    }
}

```

```
'anchor' : 'foo',      (string) the anchor
'collators' : [        (json array of string)
```


[illegible]

```
{
  "total" = "transactionid",    (string) The transaction id linked
  "rank" = x                   (numeric) The rank value
}
+ ...
}
```

```

Look for unopened transactions

Look for unopened transactions
+ var tx = txs[unopenedCount]
+ var tx = txs[unopenedCount]

Look for isolated transactions
+ var tx = txs[unopenedCount]
+ var tx = txs[unopenedCount]

Unlink the transaction again
+ var tx = txs[unopenedCount]
+ var tx = txs[unopenedCount]

```

```
curl -s -u $username:$data.binary '[{"user": "A.B", "id": "urltest", "method": "distackcomp", "param": [{"key": "content-type", "value": "http://227.2.2.2:2222}]}'
```

```
listtransactionbyaccount (<minconf> <includeempty> <includewatchonly>)
DEPRECATED: List balances by account.

Arguments:
1. <minconf> (integer, optional, default=1) The minimum number of confirmations before payments are included.
2. <includeempty> (boolean, optional, default=false) Whether to include accounts that haven't received any payments.
3. <includewatchonly> (bool, optional, default=false) Whether to include watchonly addresses (see 'importpubkey').

Result
{
  "includeempty": true,
  "includewatchonly": true,
  "account": "testaccount",
  "amount": 0.00000000,
  "ntransactions": 0,
  "total": 0.00000000,
  "unconfirmed": 0.00000000,
  "watchonly": 0.00000000
}

```

```

1 curl -X POST http://localhost:8080/api/v1/users -H 'Content-Type: application/json' -d '{
2   "username": "johndoe",
3   "password": "password123",
4   "email": "john.doe@example.com",
5   "phone": "1234567890",
6   "address": {
7     "street": "123 Main St",
7     "city": "New York",
7     "state": "NY",
7     "zip": "10001"
7   },
7   "preferences": {
7     "theme": "dark",
7     "notifications": true
7   }
7 }'
```

[illegible]

```

+ vars: listracedbpath: /usr/share/zonefiles/zone
+ vars: listracedbpath: /usr/share/zonefiles/zone
+ curl -s -u root:root --data-binary '{"type": "A", "id": "example", "name": "listracedbpath", "p
+ name": [4, true, true]}' -H 'content-type: text/plain' http://127.0.0.1:2744/

```

```
listsinceblock ( "blockhash" target-confirmations includeWatchonly)
```

Get all transactions in blocks since block *blockhash* or all transactions if omitted

Arguments:

1. "blockhash" (string, optional) The block hash to list transactions from.
2. target-confirmations (numeric, optional) The confirmations required, must be 1 or more
3. includeWatchonly (bool, optional, default=false) Include transactions in watchonly addresses (see "importaddress")

Result:

```

"transaction": {
  // [warning] The amount was associated with the transaction. Will
  // be "0" for the default account.
  "amount": { [warning] The ABC amount of the transaction. Will present the sum of the
    // category's + and - amounts.
    "category": a name,
    "positive": amount,
    "negative": amount,
    // [warning] The sum of the "positive" and "negative" amounts.
    "total": a number
  },
  // [warning] The category for the transaction.
  "category": a name,
  // [warning] The date of the transaction. This is negative and only available
  // for "category" of transactions.
  "date": a date,
  // [warning] The description for the transaction. Available for "used"
  // and "residual" category of transactions.
  "description": a string,
  // [warning] The linked bank containing the transaction. Available for "used" and "residual" category of transactions.
  "linked_bank": a name,
  // [warning] The linked bank in account class name (see BANK.BANK).
  "linked_bank_name": a name,
  // [warning] The transaction in account class name (see BANK.BANK).
  "transaction": a name,
  // [warning] The transaction time in account class name (see BANK.BANK).
  "time": a name,
  // [warning] The time associated to account class name (see BANK.BANK). Available for
  // "used" and "residual" category of transactions.
  "time_account": a name,
  // [warning] The time associated to account class name (see BANK.BANK).
  "time_account_name": a name,
  // [warning] The bank of the last used
  "bank": a name,
  "bank_name": a name
}

```

[illegible]

```
listtransactions ( "account" count from includeWatchonly)
```

Returns up to 'count' most recent transactions skipping the first 'from' transactions for account 'account'.

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89	Answers	Answers
90	Answers	Answers
91	Answers	Answers
92	Answers	Answers
93	Answers	Answers
94	Answers	Answers
95	Answers	Answers
96	Answers	Answers
97	Answers	Answers
98	Answers	Answers
99	Answers	Answers
100	Answers	Answers

```
# Example:
LIST the most recent 10 transactions in the system

c version 3 listtransactions

LIST transactions 100 to 120

c version 3 listtransactions -P 20 100

As a json api call

c curl -u user agaveapi.com -d '{"range": ["0x9e8f", "0x1", "0x10000000"], "method": "listtransactions", "params": [{"start": 20, "end": 100}]}' -H 'Content-type: text/json' http://102.4.6.3:27880/
```

[illegible]

```
Examples

% verus -listcompant
% verus -listcompant & 99999999 "C:\9566gerpsh\9566wally\c526wq29V\","C:\9566gerpsh\9566wally\c526wq29V\","
% set /c user %systemroot%\data\binary ["C:\9566gerpsh\9566wally\c526wq29V\","C:\9566gerpsh\9566wally\c526wq29V\",""]
% 9566gerpsh "C:\9566gerpsh\9566wally\c526wq29V\","C:\9566gerpsh\9566wally\c526wq29V\",""] -k -content-type: 0
set /a %date% http://127.0.0.1:25480/
```

[illegible]

[illegible]