

# Gas

## GasEstimateFeeCap

GasEstimateFeeCap estimates gas fee cap

Perms: read

Inputs:

...

```
Copy [ { "Version":42, "To":"f01234", "From":"f01234", "Nonce":42, "Value":"0", "GasLimit":9, "GasFeeCap":"0",
"GasPremium":"0", "Method":1, "Params":"Ynl0ZSBhcnJheQ==", "CID":{
"/":"bafy2bzacebbpdegvr3i4cosewthysg5xkxpqfn2wfcz6mv2hmoktwbdkax4s" } }, 9, [ {
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, {
"/":"bafy2bzacebp3shtrn43k7g3unredz7fxn4gj533d3o43tqn2p2ipxxhrvchve" } ] ]
```

...

Response:"0"

## GasEstimateGasLimit

GasEstimateGasLimit estimates gas used by the message and returns it. It fails if message fails to execute.

Perms: read

Inputs:

...

```
Copy [ { "Version":42, "To":"f01234", "From":"f01234", "Nonce":42, "Value":"0", "GasLimit":9, "GasFeeCap":"0",
"GasPremium":"0", "Method":1, "Params":"Ynl0ZSBhcnJheQ==", "CID":{
"/":"bafy2bzacebbpdegvr3i4cosewthysg5xkxpqfn2wfcz6mv2hmoktwbdkax4s" } }, [ {
"/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, {
"/":"bafy2bzacebp3shtrn43k7g3unredz7fxn4gj533d3o43tqn2p2ipxxhrvchve" } ] ]
```

...

Response:9

## GasEstimateGasPremium

GasEstimateGasPremium estimates what gas price should be used for a message to have high likelihood of inclusion in blocks in epochs.

Perms: read

Inputs:

...

```
Copy [ 42, "f01234", 9, [ { "/":"bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, {
"/":"bafy2bzacebp3shtrn43k7g3unredz7fxn4gj533d3o43tqn2p2ipxxhrvchve" } ] ]
```

...

Response:"0"

## GasEstimateMessageGas

GasEstimateMessageGas estimates gas values for unset message gas fields

Perms: read

Inputs:

...

```
Copy [ { "Version":42, "To":"f01234", "From":"f01234", "Nonce":42, "Value":"0", "GasLimit":9, "GasFeeCap":"0",
```

```
"GasPremium": "0", "Method": 1, "Params": "Ynl0ZSBhcnJheQ==", "CID": {
  "/": "bafy2bzacebbpdegvr3i4cosewthysg5xkxpqfn2wfcz6mv2hmoktwbdkax4s" } }, { "MaxFee": "0", "MsgUuid": "07070707-
0707-0707-0707-070707070707" }, [ { "/": "bafy2bzacea3wsdh6y3a36tb3skempjoxqpuyompjbmfeyf34fi3uy6uue42v4" }, {
"/": "bafy2bzacebp3shtrn43k7g3unredz7fxn4gj533d3o43tqn2p2ipxxhrvchve" } ] ]
```

...

Response:

...

```
Copy { "Version": 42, "To": "f01234", "From": "f01234", "Nonce": 42, "Value": "0", "GasLimit": 9, "GasFeeCap": "0",
"GasPremium": "0", "Method": 1, "Params": "Ynl0ZSBhcnJheQ==", "CID": {
"/": "bafy2bzacebbpdegvr3i4cosewthysg5xkxpqfn2wfcz6mv2hmoktwbdkax4s" } }
```

...

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