

# 从浏览器看到EOS

区块

## explorer.eoseco.com

链ID: aca376f206b8fc25a6ed44dbdc66547c36c6c33e3a119ffbeaef943642f0e906



区块ID	交易	时间	生产者
3192741	1	2018-06-29 03:44:29 协调世界时	cypherglasss
3192740	0	2018-06-29 03:44:29 协调世界时	cypherglasss
3192739	0	2018-06-29 03:44:28 协调世界时	cypherglasss
3192738	0	2018-06-29 03:44:28 协调世界时	cypherglasss
3192737	1	2018-06-29 03:44:27 协调世界时	cypherglasss
3192736	0	2018-06-29 03:44:27 协调世界时	cypherglasss
3192735	0	2018-06-29 03:44:26 协调世界时	cypherglasss
3192734	0	2018-06-29 03:44:26 协调世界时	cypherglasss
3192733	2	2018-06-29 03:44:25 协调世界时	cypherglasss

<b>交易</b>	查看所有
交易ID	时间
9d88791b6d6ffa6717219ba97b91b934	2018-06-29 03:44:29 协调世界时
a59d5f16f115fe684890a5afd25b5f57	2018-06-29 03:44:27 协调世界时
e24397d0d5db38b593d3ed13f9b062b3	2018-06-29 03:44:25 协调世界时
ab9c34ca5aa7e637a45e0aaa1d632210	2018-06-29 03:44:25 协调世界时
945596aca7211cc38a86d6bb2ef04de4	2018-06-29 03:44:21 协调世界时
b497e5213fe852aa419bf7ba12984705	2018-06-29 03:44:19 协调世界时
e9d74121d64f90d138768f08b4dc3aaa	2018-06-29 03:44:17 协调世界时
769dda0385d7a548ce25673ecce22504	2018-06-29 03:44:17 协调世界时
e2d8e7a51f212ae25607b2d6ef61003f	2018-06-29 03:44:16 协调世界时

区块

## explorer.eoseco.com

链ID: aca376f206b8fc25a6ed44dbdc66547c36c6c33e3a119ffbeaef943642f0e906



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3192734	0	2018-06-29 03:44:26 协调世界时	cypherglasss
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9d88791b6d6ffa6717219ba97b91b934	2018-06-29 03:44:29 协调世界时
a59d5f16f115fe684890a5afd25b5f57	2018-06-29 03:44:27 协调世界时
e24397d0d5db38b593d3ed13f9b062b3	2018-06-29 03:44:25 协调世界时
ab9c34ca5aa7e637a45e0aaa1d632210	2018-06-29 03:44:25 协调世界时
945596aca7211cc38a86d6bb2ef04de4	2018-06-29 03:44:21 协调世界时
b497e5213fe852aa419bf7ba12984705	2018-06-29 03:44:19 协调世界时
e9d74121d64f90d138768f08b4dc3aaa	2018-06-29 03:44:17 协调世界时
769dda0385d7a548ce25673ecce22504	2018-06-29 03:44:17 协调世界时
e2d8e7a51f212ae25607b2d6ef61003f	2018-06-29 03:44:16 协调世界时



# 文块 https://explorer.eoseco.com/blocks/3184939 区块 #3184939

区块信息	
待确认:	否
区块高度:	3184939
生产者:	eos42freedom
时间戳:	2018-06-29 02:39:28 协调世界时
区块ID:	0030992b20d00683ffa90d92d2a1ffdf9b1fd8245856d6ad558fdcdd45fabe61
向前 区块信息:	0030992a6ecf2086e99a6fb2ee2d04665d43140b096dc9173f8a1b8e22db22ff
交易 Merkle根节点:	fbd0bd4d2aba3cb28bfe774126fe673749815fbd762b4b7f4dcd40a1fe3ddf8f

## 区块链原始数据

### 交易

### 交易ID

eb2c140f3eb3bd52ec297a766fde23b727e2b0043c4d3810053b899f267ae55a

aee22318f3f972019206a9ac80fa3c37bf64f1c27e8517a50595a77a3867141e

215c24cf66d83dbba1c94cafd9d04871081a479caa78a5eec0fc8a9124deac46

bf45b8140fe43fca1c409db729ca9617364309de76f288a59eed5370872977f7

adb1cbedb39b7f149521637b205697aa693c0055e32e0528b4ae26bf3da50494



## 区块

```
"timestamp": "2018-06-29T02:39:28.000",
    "producer": "eos42freedom",
    "confirmed":0,
    "previous": "0030992a6ecf2086e99a6fb2ee2d04665d43140b096dc9173f8a1b8e22db22ff",
    "transaction_mroot": "fbd0bd4d2aba3cb28bfe774126fe673749815fbd762b4b7f4dcd40a1fe3ddf8f",
    "action_mroot": "8c48707f1091dd58f8dd343ad3b3c16959b6b4adefcaaaa47c86a9d592b77dec",
    "schedule version":85,
    "new producers": null,
    "header_extensions":[
    "producer_signature": "SIG_K1_KZmjaMohzZA4cuJEr1P1j5zu9X4Zu5LjvhowDFJQ47z4YV3iVYGV7hKnuTuzqw2T9
Du6FyY3m2L5DLUxtgPwUx9wGQD5LT",
    "transactions": Array [21],
    "block_extensions":[
    "id": "0030992b20d00683ffa90d92d2a1ffdf9b1fd8245856d6ad558fdcdd45fabe61",
    "block num": 3184939,
    "ref_block_prefix":2450369023
```



# 交易

交易				
待确认:	否			
交易ID:	aee2231	8f3f972019206a9ac80fa3c37bf64f1c27	e8517a50595a77a386	67141e
区块:	3184939			
创建时间:	2018-06	-29 02:39:28 协调世界时		
动作				
合约	动作	授权人	娄	<b>文据</b>
eosio.token	transfer	["eosecowallet@owner"]	{	'from":"eosecowallet","to":"eosecoeoseco","quantity":"0.1000 EOS","memo":"test"}



"status": "executed",

## 交易

```
"cpu_usage_us":964,
    "net_usage_words": 17,
    "trx":{
        "id": "aee22318f3f972019206a9ac80fa3c37bf64f1c27e8517a50595a77a3867141e",
        "signatures":[
            "SIG_K1_KXTMZKQZfBQMFdA6DTykjSxoMtXPg3D9zw3Krc7uvB8BnS38aM5kXMhonAei88MhpdFFHp9psRfjgEaA9GgZaWUVdhyt8Z"
        ],
        "compression":"none",
        "packed_context_free_data":"",
        "context_free_data":[
        "packed_trx": "fa9b355bde97e83f9616000000000000000000000000572d3ccdcd0190558c8653a43055000000000000000000000558c8653a430554091c25451a43055e80300
000000000004454f5300000000047465737400",
        "transaction":Object{...}
                                                "expiration": "2018-06-29T02:39:54", "ref_block_num": 38878, "ref_block_prefix": 378945512,
                                                "max_net_usage_words":0,"max_cpu_usage_ms":0,"delay_sec":0,
                                                "context_free_actions":[],
                                                "actions":[{
                                                        "account":"eosio.token",
                                                        "name": "transfer",
    "actions":[
                                                        "authorization":[{
```



## 账户

## 账户

已使用内存:

创建时间:

更新时间:

用户名: eosecoeoseco 余额: 444.094 EOS 可用余额: 442.094 EOS 总计算资源: 1.3 EOS 总网络资源: 1.1 EOS 自身抵押计算资源: 1 EOS 自身抵押网络资源: 1 EOS 为其他账户抵押: -0.4 EOS 正在解除抵押的计算资源: 0 EOS 正在解除抵押的网络资源: 0 EOS 3500000 Byte 内存:

4018 Byte

2018-06-10 13:16:19 协调世界时

1970-01-01 00:00:00 协调世界时

代理人:投票给:eosecoeoseco投票权重:7514047806.24311065673828125被代理权重:0.00000000000000是否代理人:0

## 待确认交易

投票

## 交易

### 交易ID

aee22318f3f972019206a9ac80fa3c37bf64f1c27e8517a50595a77a3 0c95ba61fc4bc4d77ec1a928e07d06763984322274e2bb13d31153 236d33c536aa57730d21d29f7fd6b7c2cbfaa715e167da583561ca1 aafe76009cdf604398294424c5a31e69ea6e37a45a952d479cc1e62 855ac499a535a484f1d26993b17e86138b703c0ae0fcb73a021a245 b11c5c6ae3c220765dd3391b704df46f1eed662f8ff0cebeef22e1d7a fa16266911af651fe1df71263da9836b29c8424cb8f677c221bb619d b63428c2ef3320cb6e185b45a5acf66ffbe32e1792f0e9afecaa63521 37a9cc33c401b2052cdcb195fc89096fe2935db11294ddbb4af3479 被投票: 7,384,774.918 EOS

向后>

投票人	已抵押	投票权重
gy2tkojrg4ge	2,261,947.868 EOS	8612229369120129.00000
gu2tkmztgige	1,237,909.173 EOS	4713264124917891.00000
gi3deobrhage	808,550.776 EOS	3078508059510334.50000
geydiobzg4ge	673,280.439 EOS	2529530700948662.50000
haztgobzgage	316,222.98 EOS	1203999825504004.75000
gm3dsnjzguge	303,368.692 EOS	1139763425799911.50000
ge3tenzwgene	261,369.348 EOS	968968310852922.375000
ha4dqmrqhege	200,011.633 EOS	751448484956268.875000
gmztimruhage	161,228.846 EOS	597719831065504.625000
geydmnrzgene	149,955.113 EOS	555924992014972.000000
gezdqmzqgege	115,147.65 EOS	438417695433997.062500
gm4tinjvgene	106,499.93 EOS	394824635703752.937500
gy4dsobrhege	101,590.434 EOS	376623777894023.250000
ge3denzthege	93,154.774 EOS	354681154211059.125000
gm4dkmrygene	84,154.401 EOS	311983589347759.625000
gizdqoagenes	80,091.703 EOS	296922049148356.125000
hezdenrsgqge	49,729.812 EOS	184362140042132.750000
haztiojuhege	47,962.097 EOS	182612774574518.312500
ge4dcmrwgage	28,000 EOS	106608302414105.531250
gu3tsnzuhege	26,346.264 EOS	97672871500367.2968750



## 账户

```
"account_name": "eosecoeoseco",
    "head_block_num": 3229503,
    "head_block_time": "2018-06-29T08:50:53.500",
    "privileged": false,
    "last_code_update":"1970-01-01T00:00:00.000",
    "created": "2018-06-10T13:16:19.500",
    "core_liquid_balance":"442.0941 EOS",
    "ram_quota":3500000,
    "net_weight": 11000,
    "cpu_weight": 13000,
    "net_limit":{
        "used":281,
        "available": 536943,
        "max":537224
    "cpu_limit":{
        "used": 12429,
        "available":108648,
        "max":121077
    "ram_usage": 4018,
    "permissions":[
            "perm_name":"active",
            "parent":"owner",
            "required_auth":{
                "threshold": 1,
                "keys":[
                         "key": "E0S83i4Ka1LjJKqy4ubuam39b2bXWA
b4gmQvMPQZCxRMVAtF37QwC'
                         "weight":1
                "accounts":[
                "waits":[
```

```
"perm_name": "owner",
        "parent":"",
        "required_auth":{
            "threshold":1,
            "keys":[
                    "key": "E0S83i4Ka1LjJKqy4ubuam39b2bXWAb4gmQvMPQZCxRMVAtF37QwC",
                    "weight":1
            "accounts":[
            "waits":[
"total_resources":{
    "owner": "eosecoeoseco",
    "net_weight":"1.1000 EOS",
    "cpu_weight":"1.3000 EOS",
    "ram_bytes":3500000
"self_delegated_bandwidth":{
    "from": "eosecoeoseco",
    "to": "eosecoeoseco",
    "net_weight":"1.0000 EOS",
    "cpu_weight":"1.0000 EOS"
"refund_request":null,
"voter_info":{
    "owner": "eosecoeoseco",
    "proxy":"",
    "producers":[
        "eosecoeoseco"
    "staked":20000,
    "last_vote_weight": "7514047806.24311065673828125",
    "proxied_vote_weight":"0.0000000000000000",
    "is_proxy":0
```



## 权限

```
"permissions":[
            "perm_name":"active",
            "parent":"owner",
            "required_auth":{
                "threshold":1,
                "keys":[
                         "key":"E0S58XE3yCEwaHbfLWweEzLMpjY
apAUjvT5TnwGECAm5Dco9ncqM3",
                         "weight":1
                "accounts":[
                "waits":[
            "perm_name":"claimer",
            "parent": "active",
            "required_auth":{
                "threshold":1,
                "keys":[
                         "key":"E0S7NFuBesBKK5XHHLtzFxm7S57
Eq11gUtndrsvq3Mt3XZNMTHfqc",
                         "weight":1
                "accounts":
                ],
"waits":[
```

```
"perm_name":"owner",
"parent":"",
"required_auth":{
    "threshold":4,
    "keys":[
            "key": "E0S5nFqz4giFz9kRZj6bByp9bgJQw7vEdrBAvMe7QWhr1xvX5YsTY",
            "weight":1
            "key": "E0S6EuWTngWDhzCwKoNxmrYnY87Pr8wPGYZ54ombRhQgpojqjavZX",
            "weight":1
            "key": "EOS7jFKsnSaA1BFdHBdhyFHHqHMdz4gcVG74WHtofeEGBiGLj4HCs",
            "weight":2
            "key": "E0S8CiR3Dpa1tHAY1yH8Tyf7Ue2JYRHKWAYMeo5gBHuHM2m8gKtBJ",
            "weight":1
            "key": "EOS8esiBart2LgGd98CwWgupqFMGtHxBV2uueesY5mHJNPRxCXCQQ",
            "weight":2
    "accounts":[
    "waits":[
```

Q

搜索

## 查看:投票指南

投票

选中节点									
是否选择	排名	节点账户	得票	得票权重	得票率	每日收益(估计)	未领取收益	网址	节点信息

▼ 69 eosecoeoseco 73,847,749,178.00 EOS 27,944,741,272,619,036.00 0.3431 % 0.00 EOS 0.00 EOS https://eoseco.com bp.json 生成交易

每日收益(估计) 排名 得票 得票率 未领取收益 网址 是否选择 节点账户 得票权重 节点信息 zbeosbp11111 bp.json 384,403,734,883.00 EOS 225,586,607,661,071,420.00 2.7700 % 847.78 EOS 0.00 EOS http://www.zbeos.com 2 2.7017 % 833.16 EOS 0.00 EOS eoshuobipool 399,085,081,223.00 EOS 220,024,295,801,377,380.00 http://eoshuobipool.com bp.json https://bp.eosnewyork.io 2.6954 % 831.80 EOS 0.00 EOS 3 eosnewyorkio 352,716,621,207.00 EOS bp.json 219,508,781,031,488,540.00 2.6718 % 826.75 EOS 0.00 EOS https://eoscannon.io/ 4 378,497,068,935.00 EOS 217,586,383,914,797,470.00 eoscannonchn bp.json eosauthority 2.5536 % 801.46 EOS 0.00 EOS https://eosauthority.com 5 382,884,139,234.00 EOS 207,963,128,259,833,600.00 bp.json 2.4817 % 786.06 EOS 0.00 EOS 6 202,103,721,089,199,140.00 337,436,885,397.00 EOS http://cypherglass.com cypherglasss bp.json eosisgravity 2.4725 % 784.11 EOS 0.00 EOS http://eosgravity.com bp.json 350,856,702,677.00 EOS 201,362,400,309,953,630.00 2.3463 % 757.07 EOS 0.00 EOS 8 eosliquideos 354,242,255,741.00 EOS 191,077,601,317,094,900.00 http://vote.liquideos.com/ bp.json 2.3392 % 755.56 EOS 0.00 EOS https://www.eoscanada.com 9 190,501,653,515,625,000.00 bp.json eoscanadacom 369,292,318,389.00 EOS 2.3303 % 753.66 EOS 0.00 EOS 10 290,264,462,740.00 EOS 189,777,479,564,317,700.00 https://meet.one bp.json eosiomeetone cryptolions1 2.3100 % 749.31 EOS 0.00 EOS http://CryptoLions.io 11 188,123,704,432,145,340.00 bp.json 269,591,958,534.00 EOS 12 188,109,309,151,664,500.00 749.27 EOS 0.00 EOS 315,196,205,077.00 EOS 2.3098 % eosswedenorg https://eossweden.se bp.json 745.13 EOS bp.json eosstorebest 251,215,878,814.00 EOS 2.2905 % 822.76 EOS http://www.eos.store 186,534,965,752,471,170.00 13 14 eos42freedom 2.2574 % 738.04 EOS 0.00 EOS bp.json 289,060,682,325.00 EOS 183,836,757,524,965,470.00 https://www.eos42.io bitfinexeos1 0.00 EOS https://www.bitfinex.com 2.2092 % 727.73 EOS bp.json 15 204,815,271,347.00 EOS 179,913,451,306,775,260.00 2.2038 % 726.58 EOS 0.00 EOS 16 eosbeijingbp 179,475,146,121,862,270.00 https://www.eosbeijing.one bp.json 322,664,992,792.00 EOS eosdacserver 711.59 EOS https://eosdac.io 17 0.00 EOS bp.json 337,954,441,663.00 EOS 173,772,287,465,786,370.00 2.1338 %



EOS生态区

离线签名工具



## 生成交易报文

## 查看:投票指南

### 选中节点

是否选择	排名	节点账户	得票	得票权重	得票率	每日收益(估计)	未领取收益	网址	节点信息
Ø	9	eoscanadacom	369,487,578,900.00 EOS	190,579,991,589,931,200.00	2.3397 %	755.67 EOS	0.00 EOS	https://www.eosca	bp.json
<b>2</b>	21	eosasia11111	260,088,671,826.00 EOS	166,913,860,576,701,700.00	2.0491 %	693.47 EOS	0.00 EOS	https://www.eosas	bp.json
<b>⊠</b>	38	eosunion1111	228,830,813,839.00 EOS	86,292,187,136,986,000.00	1.0594 %	226.77 EOS	232.89 EOS	http://eosunion.io/	bp.json
<b>2</b>	69	eosecoeoseco	73,847,749,178.00 EOS	27,944,741,272,619,036.00	0.3431 %	0.00 EOS	0.00 EOS	https://eoseco.com	bp.json
Ø	80	eostark11111	48,266,331,224.00 EOS	18,295,798,093,177,304.00	0.2246 %	0.00 EOS	0.00 EOS	www.eostark.com	bp.json
<b></b>	235	eoslanddotca	41,695,308.00 EOS	15,794,683,179,933.14	0.0002 %	0.00 EOS	0.00 EOS	http://www.eoslan	bp.json

eosecoeoseco

生成交易

### 待签名交易

{"compression":"none","transaction":{"expiration":"2018-06-29T10:26:41","ref\_block\_num":25799,"ref\_block\_prefix":671144030,"net\_usage\_words":0,"max\_cpu\_usage\_vords":0,"max\_cp

复制待签名交易



## 离线签名



## EOS Offline Signing Tool | EOS 离线签名工具

### 链ID | Chain ID

aca376f206b8fc25a6ed44dbdc66547c36c6c33e3a119ffbeaef943642f0e906

### 未签名报文 | Unsigned Transaction

{"compression":"none","transaction":{"expiration":"2018-06-

29T10:13:40", "ref\_block\_num":24239, "ref\_block\_prefix":860408515, "net\_usage\_words":0, "max\_cpu\_usage\_ms":0, "delay\_sec":0, "context\_free\_action s":[], "actions":[{"account": "eosio", "name": "voteproducer", "authorization":

[{"actor":"eosecoeoseco","permission":"active"}],"data":"4091c25451a43055000000000000000014091c25451a43055"}],"transaction\_extensions":[]},"signatures":[]}

#### 账户 | Account

eosecoeoseco

#### 合约 | Contract

eosio

### 功能 | Function

voteproducer

### 私钥 | Private Key

输入私钥|Input private key

### 签名交易报文|Sign Transaction

### 已签名报文 | Signed Transaction

voteproducer

私钥 | Private Key

输入私钥|Input private key

签名交易报文|Sign Transaction

### 已签名报文 | Signed Transaction

{"compression": "none", "transaction": {"expiration": "2018-06-

29T10:18:51", "ref\_block\_num":24863, "ref\_block\_prefix":1782823881, "net\_usage\_words":0, "max\_cpu\_usage\_ms":0, "delay\_sec":0, "context\_free\_action s":[], "actions":[{"account":"eosio", "name":"voteproducer", "authorization":

[{"actor":"gm3dmmjqgene","permission":"active"}],"data":"a0a662f6499986640000000000000014091c25451a43055"}],"transaction\_extension s":[]},"signatures":

["SIG\_K1\_JvTvgzQorvpP933XnZ5MWQX6wpEgxYbwFBWdJo9RgGmsh35xauQn33nuRGBgyZZV5ZnWtcHJ68JEWyEz56nYGEhpBJGhrZ"]}



## 发送交易

复制已签名报文|Copy signed trasaction

关闭页面|Close Page

## 发送交易

### 已签名交易

{"compression": "none", "transaction": {"expiration": "2018-06-

29T10:21:49", "ref\_block\_num":25223, "ref\_block\_prefix":239608273, "net\_usage\_words":0, "max\_cpu\_usage\_ms":0, "delay\_sec":0, "context\_free\_actions":[], "actions":[{"account": "eosio", "name": "voteproducer", "authorization":

[{"actor":"gy4tamrygage","permission":"active"}],"data":"a09861fb4a93896700000000000000014091c25451a43055"}],"transact ion\_extensions":[]},"signatures":

["SIG\_K1\_KiSk893gUqE9UrhsVaRc8zWKhSGMZHTQiGhbVgFXgbDaW8ZtKV7PGt8GoWB1MkAxoDBTxPr3cV7uqkq9Gssrkmo6af AHBb"]}

发送交易

交易结果

交易ID: 23029f46a5515a840745e6a177a00638962e5d0aec63cdfe4e652fdaa8fe5b85



EOS资源模型



## 资源成本

## RAM(内存)价格

0.11399 EOS / KB

5.55 CNY / KB

内存市场EOS总量

2,798,803.95 EOS

存储 1 KB 数据的花费



## 网络计算成本

0.00205 EOS/KB/Day

0.09962 CNY/KB/Day

每日拥有 1 KB 网络传输能力的花费



## 计算资源成本

0.01074 EOS/ms/Day

0.52238 CNY/ms/Day

每日拥有 1 MS 计算时间的花费



## RAM(内存)占用率

总容量: 64.00 GB

已占用 41.13 GB

占用率: 64.27%

### 64.27%

提醒: 需要时,超级节点可以增加 RAM(内容)容量。





# EOS侧链和跨链机制



