Omni*Chat: Creating a FORTH Shell within Java based BitTorrent Client BiglyBT Decentralized Chat (BBDC) --- Liang Ng

This presentation focuses on how FORTH derived Phoscript can be used to modify BiglyBT Decentralized Chat, in order to create a stack machine engine within a Java host. (10 minutes)

Contract to hash:

Ray Wang to pay Chris Lee 1 gram of .999 gold coin.

Omnihash

Omnihash of Contract:

Bxw0c5y+qg==

OHC3 Triplets:

Bxw0c5y+qg== DcBAqHa0vw== FaLpUz2mPA==

OHC3

ROOT

Root Hash (Hash of All Hashes):

FAY1TurtMg==

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[Mon 6pm] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
[13:04] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1130 1300 + d2s: dbl put: je:
[13:04] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[13:52] EE6A59
magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-9(
[23:23] EE6A59
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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2915.0"}

channel: key 224455   ☑ Anonymous (I2P)   Open

This presentation focuses on how FORTH derived Phoscript can be used to modify BiglyBT Decentralized Chat, in order to create a stack machine engine within a Java host. (10 minutes)

BiglyBT is a BitTorrent client written Java and BitTorrent has been known to be a file sharing platform for "unregulated" contents.

The second part of this presentation focuses on Omnicontract, a smart contract based on Omnihash, to address some regulation issues concerning digital assets ownerships, as well as law enforcement. (10 minutes)

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Omnihash

Omnihash of Contract:

Bxw0c5y+qg==

OHC3 Triplets:
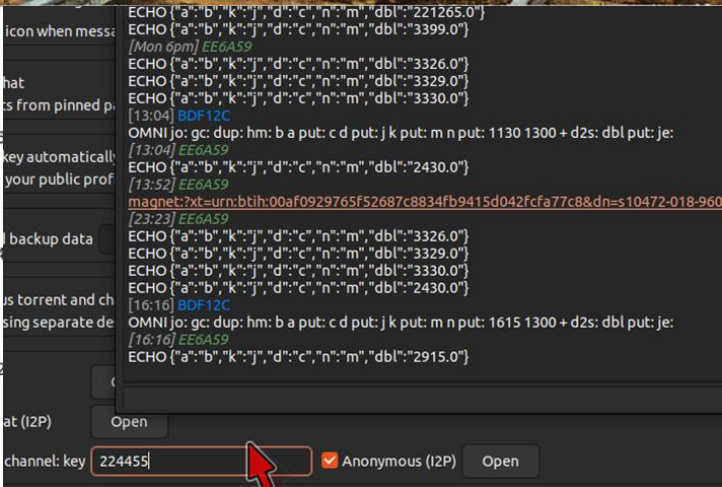
Bxw0c5y+qg== DcBAqHa0vw== FaLpUz2mPA==

OHC3

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Root Hash (Hash of All Hashes):

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magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960
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channel: key 224455

☑ Anonymous (I2P)   Open

Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Google +9.9%   Apple -2.9%

*Finally we shall briefly talk about the roadmap for this platform, namely Omni*Chat (pronounced "Omni Star Chat"), Omni*Web ("Omni Star Web") etc.*

*We chose the name Omni meaning "anything" as it is the opposite of UNIX (meaning "One"), and * also means "anything" in UNIX "clone" environments. (10 minutes)*

BitTorrent laid the foundation for a "decentralised" Internet, but unfortunately for over 20 years, there did not seem to be attempts to create FORTH-like shell on BitTorrent, except for BitCoin and other Blockchains.

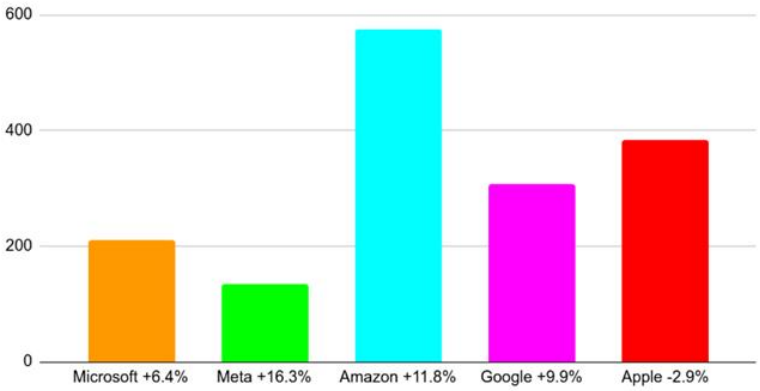ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
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...channel: key 224455   ☑ Anonymous

MMAGA Revenues 2023 (USD billions)
Total: USD 1.611 Trillion (+7.26%)

600

400

200

0

Microsoft +6.4% Meta +16.3% Amazon +11.8% Google +9.9% Apple -2.9%

We hope Omni*Web will pick up from where BitTorrent left us, i.e. file-sharing and a very obscure chat feature, which is the highlight of this talk, and continue to create "Decentralised Cloud & Metaverse", using BitTorrent's greatest feature – bypassing DNS – saving GLOBAL monthly DNS charges in USD 100 millions.

Finally we pay tribute to the late Vernor Vinge, who first popularised the concept of "technological singularity", and make a daring but calculated estimate on "Decentralised Cloud AI" based on Omni*Web and hash indexed decentralised database by end of 2025.

Android (iOS)	Web

H = Hybrid

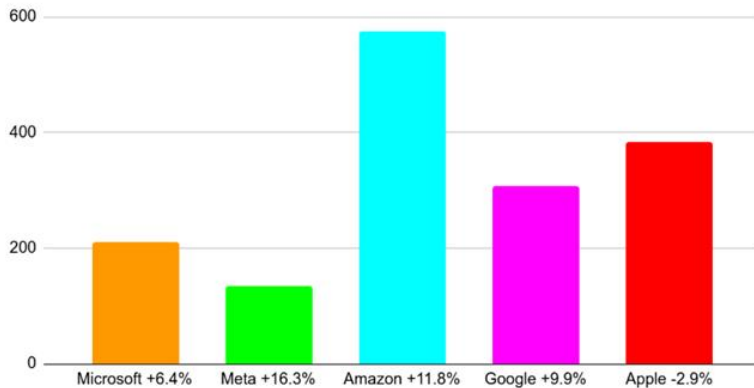| DNS Cloud Servers (Centralised)	Omni*Web BitTorrent Decentralised Cloud & Metaverse

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
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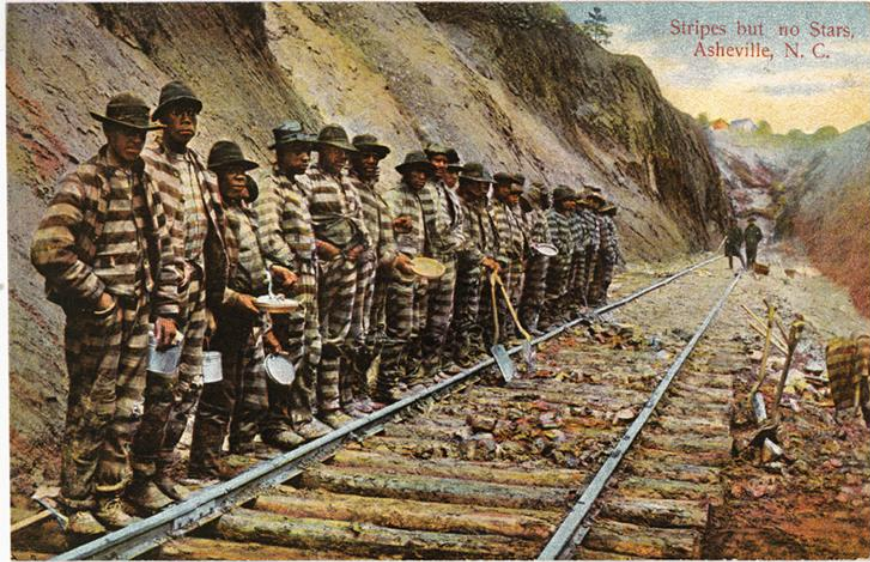ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2915.0"}

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channel: key 224455   ☑ Anonymous (I2P)   Open

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We invite participants to join us via the following software, during this talk to experience a glimpse of "Decentralised Cloud and Metaverse":

1. *BiglyBT Decentralized Chat:*
- *Channels "224455", "332211", "556677"*

1. *Jitsi Meet, room "svfig" (available on Android, iOS or Web).*

Stripes but no Stars, Asheville, N. C.

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
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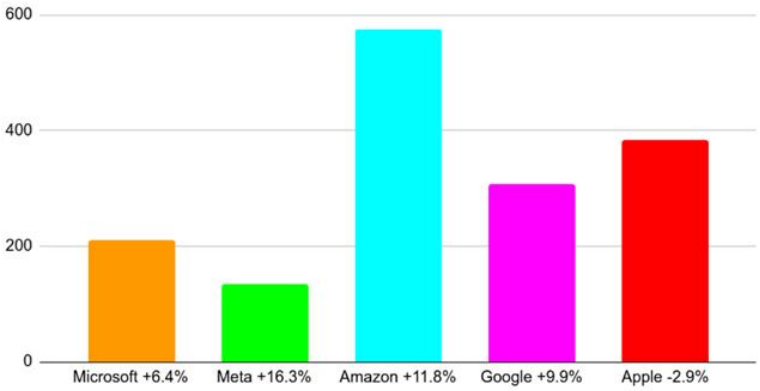[16:16] BDF12C

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The photographs and charts used in this presentation were used in a YouTube video intended for audience outside USA.

As such, they may raise questions for audience with USA, and much apologies are reserved for offending sensitivities. (Monty Python style humour is implied and encouraged.)

The term MMAGA on the bottom left refers to Microsoft, Meta, Amazon, Google & Apple and shall not be confused with any other similarly spelled term.

The photograph on the top left serves to illustrate the plight of free software programmers who fruits of labour are stolen by corporations likened to railway tycoons.

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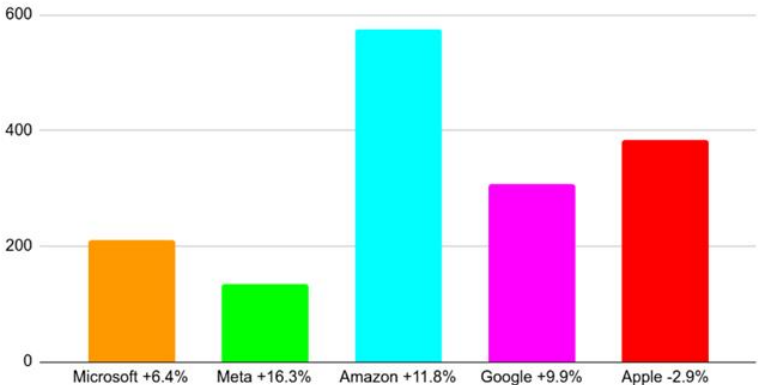
In this video, we begin by pointing out the "MMAGA inequality", where top 5 tech companies, namely Microsoft, Meta, Amazon, Google & Apple, earning over USD 1.6 trillion in 2023, without *fairly rewarding individual users & free software programmers*.

We then propose Omni* platform, *combining BitTorrent, Phoscript & Omnihash* in an unprecedented manner, allowing anyone to learn & program a server easily with Phoscript, while monetising the digital assets with Omnihash, on any computer or device connected to Internet, bypassing DNS with BitTorrent.

With this, we aim to establish a truly *Decentralised Cloud & Metaverse*, owned and operated by individual users & free software programmers.

2024
June: Android port for Omni*Chat
Sept: Jitsi Meet Modification
Dec: TikTok Clone
100 programmers
1000 users

2025
Gold Hash, Search Engine, Arti
1k programmers
100k users

2026
100k programmers x100 annua
10M users x100 annually

2027
10M programmers x2 annually
1B users x2 annually

2028
12M programmers linear growth
2B users linear growth annually

Contract to hash:

```
f(': im_pbk . dup: js: jd: msg ix: awa: impbk: ss: ;')
```

[Omnihash]

OHC3 Triplets:

```
Code: C:0ZdjjQHB A:A9CODqVoVA   C:FZqB7VtBAA
```

[smca]

Omnihash of Contract:

```
0ZdjjQHB
```

Root Hash (Hash of All Hashes

```
FAKR3wRKLq
```

In this video, we begin by pointing out the "MMAGA inequality", where top 5 tech companies, namely Microsoft, Meta, Amazon, Google & Apple, earning over USD 1.6 trillion in 2023, without <u>fairly rewarding individual users & free software programmers</u>.

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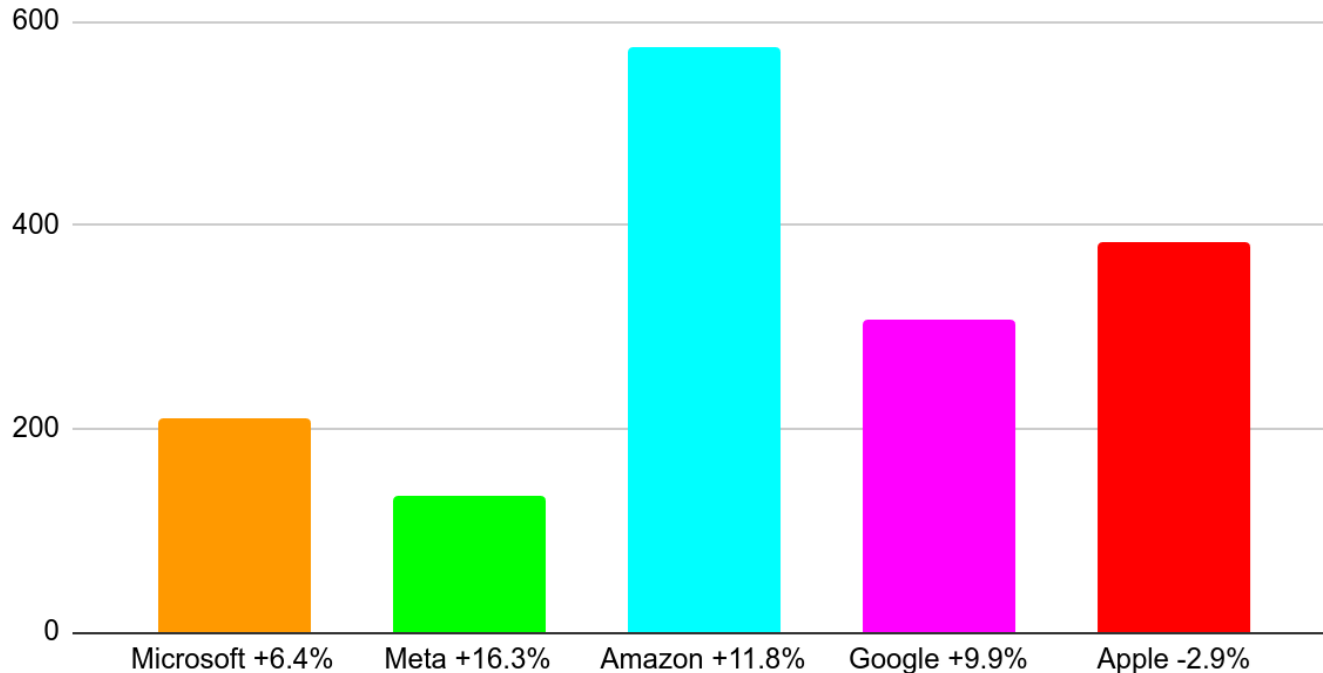
A literal trillion dollar question: Do you know that the combined revenues of the top 5 technology companies in 2023 already exceeded USD 1.6 trillion and are growing strongly above 5% annually?

Stripes but no Stars, Asheville, N. C.

Using the definition by the contrary, *centralised cloud and metaverse* is what we have now, where less than 1% or 0.1% of the revenues of the technology companies are fairly shared with individual users and free software programmers.
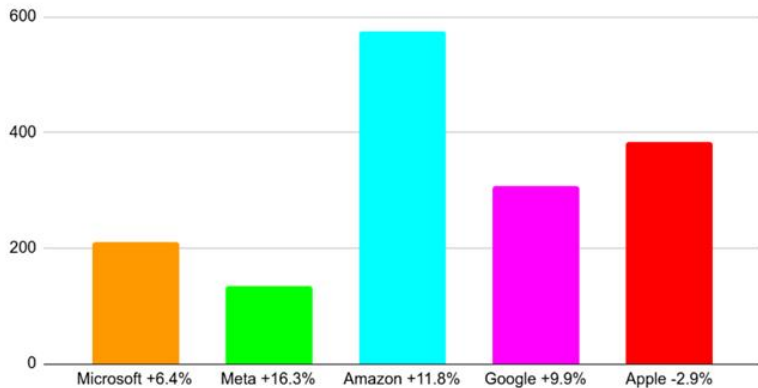
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[Mon 6pm] EE6A59
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1. Play video.

1. Show code in Visual Studio Code.

[01:16] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"13332.0"}
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"13332.0"}
[01:53] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 7777 2222 + d2s: dbl put: je:
[01:53] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"9999.0"}
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"9999.0"}
[04:12] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 7777 2266 + d2s: dbl put: je:
[04:12] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"10043.0"}
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"10043.0"}
[09:19] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1199 2266 + d2s: dbl put: je:
[09:21] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3465.0"}
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3465.0"}
[09:22] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1199 220066 + d2s: dbl put: je:
[09:22] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
[09:34] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1199 2200 + d2s: dbl put: je:
[09:34] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[11:27] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1126 2200 + d2s: dbl put: je:
[11:27] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}

OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1129 2200 + d2s: dbl put: je:

DHT=0, Nodes=1/1/0, Requests=0.2/0.2

Search...

Help

Nick BDF12C   Shared

Online: 1, Posted: 2   Friends

Name	#	Fr
BDF12C	10	
EE6A59	19	

Anon - '224455'

BuddyPluginBeta.java - omnixchat - Visual Studio Code

biglybt

J BuddyPluginBeta.java ✕

core > src > com > biglybt > plugin > net > buddy > **J** BuddyPluginBeta.java > ⬡ BuddyPluginBeta > ⬡ logMessage(ChatInstance, ChatMessa

```java
  83    BuddyPluginBeta implements DataSourceImporter, AEDiagnosticsEvidenceGenerator {
2292            logMessage(
2337                // Stack<> stackAll = new Stack<>();
2338                String expr = msg;
2339
2340                System.out.println(expr);
2341                System.out.println("Input\tOperation\tStack after");
2342
2343                // Phoscript (Phos) Engine
2344                for (String token : expr.split("\\s+")) {
2345                    System.out.print(token + "\t");
2346                    switch (token) {
2347                        case "+":
2348                            System.out.print("Operate\t\t");
2349                            stack.push(stack.pop() + stack.pop());
2350                            break;
2351                        case "-":
2352                            System.out.print("Operate\t\t");
2353                            stack.push(-stack.pop() + stack.pop());
2354                            break;
2355                        case "*":
```

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Phoscript implementation on JavaScript, PHP, Python, Symforth C++, Java.

Interesting targets: Golang, Rust, Hashkell, etc.

Phoscript: simplest FORTH to port and teach programmers in host programming languages.

Homoiconism: programming languages with uniform syntax for code and data (LISP, FORTH, etc.)

Homotronic Computing: using one programming language to design / program hardware (programmable), which then executes code in the same language, e.g. Phoscript-Verilog.

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
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[13:04] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1130 1300 + d2s: dbl put: je:
[13:04] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[13:52] EE6A59
magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960
[23:23] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[16:16] BDF12C
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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2915.0"}

Flash status bar icon when messa

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Anonymous beta chat (I2P)   Open

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MMAGA Revenues 2023 (USD billions)
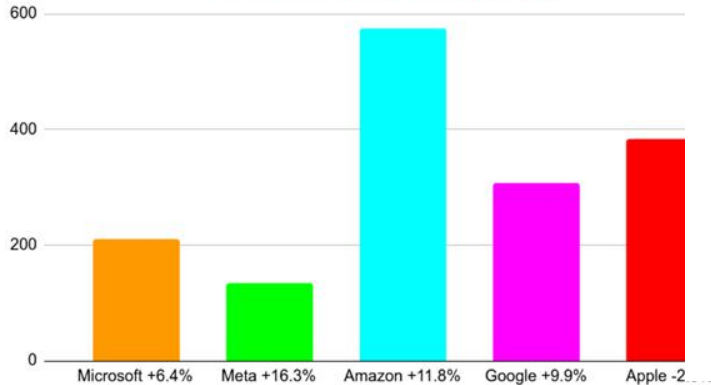**Total: USD 1.611 Trillion (+7.26%)**

Microsoft +6.4% Meta +16.3% Amazon +11.8% Google +9.9% Apple -2

Phoscript implementation on JavaScript, PHP, Python, Symforth C++, Java.
Show Phoscript engine source code in various programming languages.
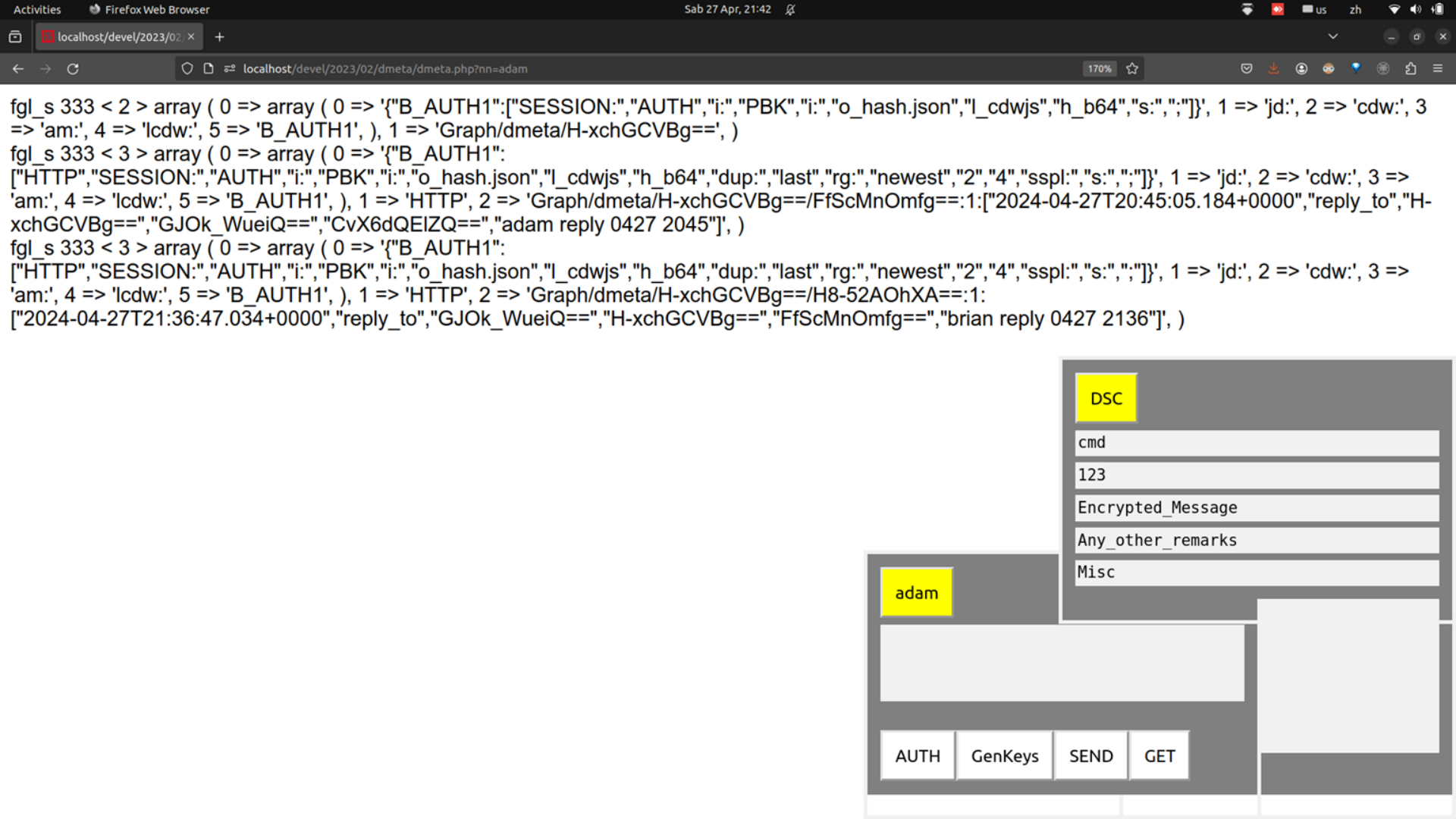
fgl_s 333 < 2 > array (0 => array (0 => '{"B_AUTH1":["SESSION:","AUTH","i:","PBK","i:","o_hash.json","l_cdwjs","h_b64","s:",";"]}', 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B_AUTH1',), 1 => 'Graph/dmeta/H-xchGCVBg==',)

fgl_s 333 < 3 > array (0 => array (0 => '{"B_AUTH1": ["HTTP","SESSION:","AUTH","i:","PBK","i:","o_hash.json","l_cdwjs","h_b64","dup:","last","rg:","newest","2","4","sspl:","s:",";"]}', 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B_AUTH1',), 1 => 'HTTP', 2 => 'Graph/dmeta/H-xchGCVBg==/FfScMnOmfg==:1:["2024-04-27T20:45:05.184+0000","reply_to","H-xchGCVBg==","GJOk_WueiQ==","CvX6dQElZQ==","adam reply 0427 2045"]',)

fgl_s 333 < 3 > array (0 => array (0 => '{"B_AUTH1": ["HTTP","SESSION:","AUTH","i:","PBK","i:","o_hash.json","l_cdwjs","h_b64","dup:","last","rg:","newest","2","4","sspl:","s:",";"]}', 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B_AUTH1',), 1 => 'HTTP', 2 => 'Graph/dmeta/H-xchGCVBg==/H8-52AOhXA==:1:["2024-04-27T21:36:47.034+0000","reply_to","GJOk_WueiQ==","H-xchGCVBg==","FfScMnOmfg==","brian reply 0427 2136"]',)

DSC

cmd

123

Encrypted_Message

Any_other_remarks

Misc

adam

AUTH | GenKeys | SEND | GET

```javascript
// utoa for unicode string!!
// 20230619 works for hhm: !!
S[2][3].onclick = function() { console.log(S[2][1].value.substr(S[2][1].value.length-2)); if (S[2][1].value.substr(S
   [2][1].value.length-2)=="e:") f(S[2][1].value); else if (S[2][1].value=="") f(newest_msg); else f(': B_AUTH1 HTTP S-
   ESSION: AUTH i: PBK i: o_hash.json l_cdwjs h_b64 dup: last '+ utoa(S[2][1].value)  +' b64d: 2 pick: dup: last rg: n-
   ewest 5 4 sspl: old_record swap: 0 i:  last 4 replace: isodt: 0 replace: dup: 2 i: 3 replace: 2 pick: 2 replace: 1
   pick: 5 replace: mk_hash wm1 nl: . . wm2 s: ; : A_AUTH1 B: B_AUTH1 F_O ; A_AUTH1') }

function f_e(){ M.F(eval(s.pop())) }

newest_msg=': B_AUTH1 HTTP SESSION: AUTH i: PBK i: o_hash.json l_cdwjs h_b64 dup: last rg: newest 2 4 sspl: s: ; :
   A_AUTH1 B: B_AUTH1 F_O ; A_AUTH1'

myhash=': B_AUTH1 SESSION: AUTH i: PBK i: o_hash.json l_cdwjs h_b64 s: ; : A_AUTH1 B: B_AUTH1 F_O ; A_AUTH1'

h_mkdir=': B_AUTH1 SESSION: AUTH i: PBK i: o_hash.json l_cdwjs h_mkdir s: ; : A_AUTH1 B: B_AUTH1 F_O ; A_AUTH1'

function utoa(data) { return btoa(unescape(encodeURIComponent(data))); }


// use ecr_t, too much work to debug VM in awa:
async function f_ecr_t() { //  2021-02-19 must return TOS for awa: to work!!
    // var S = _S(arguments[0]);
    var S = M.S;
    const encodedMessage = S.pop();
    const encryptedText = await window.crypto.subtle.encrypt({ name: 'RSA-OAEP' }, S.pop(), encodedMessage);
    S.push(encryptedText);
    return encryptedText;
}
```

Activities · Terminal · Sab 27 Apr, 21:46 · us zh

hongwu@hongwu-Latitude-5480: ~/devel/2024/SymForth/symengine-master/build/benchmarks

hongwu@hongwu-Latitude-5480: ~/devel/20... | hongwu@hongwu-Latitude-5480: ~/devel/20... | hongwu@hongwu-Latitude-5480: ~/devel/20... | hongwu@hongwu-Latitude-5480: ~/devel/2024 | hongwu@hongwu-Latitude-5480: ~/devel/20...

```
In pow:
Expanding a: x + y
Expanding: (x + y)**2
0ms
number of terms: 3
Expanding r: 2*x*y + x**2 + y**2
TOS 8

sm_string:   x sym: y sym: add: 2 7 + pow: 3 6 +
sym: TOS x
Expanding: x
sym: TOS y
Expanding: y
In add: Expanding: x + y
+: 9 7 2 9
In pow:
Expanding a: x + y
Expanding: (x + y)**9
0ms
number of terms: 10
Expanding r: 9*x*y**8 + 36*x**2*y**7 + 84*x**3*y**6 + 126*x**4*y**5 + 126*x**5*y**4 + 84*x**6*y**3 + 36*x
**7*y**2 + 9*x**8*y + x**9 + y**9
+: 9 6 3 9
mystack TOS: 9
hongwu@hongwu-Latitude-5480:~/devel/2024/SymForth/symengine-master/build/benchmarks$ ./expandv x sym: y s
ym: add: 2 7 + pow: 3 6 +
```
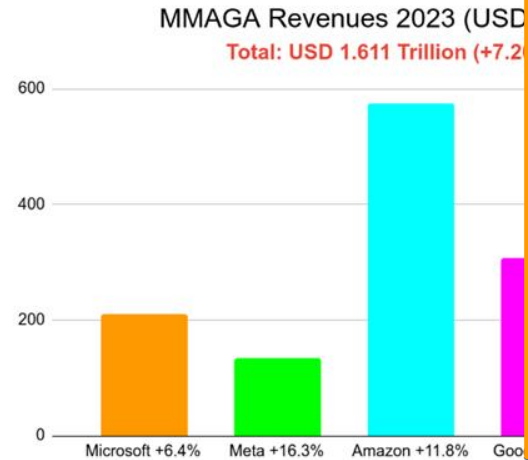
```python
# 20230602 global t; map need to access t
def SM(s):
  s1 = " ".join(s.split())
  global t, t_i
  t = s1.split()
  print( '  SM token list t ', t )
  L = len(t)
  i = 0
  while i<L:
    t_i = i
    if ( t[i][-1]==':'):
      Lt=len(t[i])
      print( 'is :', 'f_'+t[i][0:Lt-1])
      tf = 'f_'+t[i][0:Lt-1]

      if tf in dir(lib_aesgcm): # check tf in lib first, else globals() will not be able to find function defition
in global
        print( tf, ' is defined')
        eval( 'lib_aesgcm.'+tf+'()' )

      elif (tf=='f_newtab'):
        print('  hard code execute_script ')
        driver.execute_script("window.open('"+ S.pop() +"')") # too complicated to eval quotes !!

      elif tf in dir(lib_chrome): # check tf in lib manually, until too many, automate all
        print( tf, ' is defined')
        eval( 'lib_chrome.'+tf+'()' )

      elif 'f_'+t[i][0:Lt-1] in globals().keys():
```
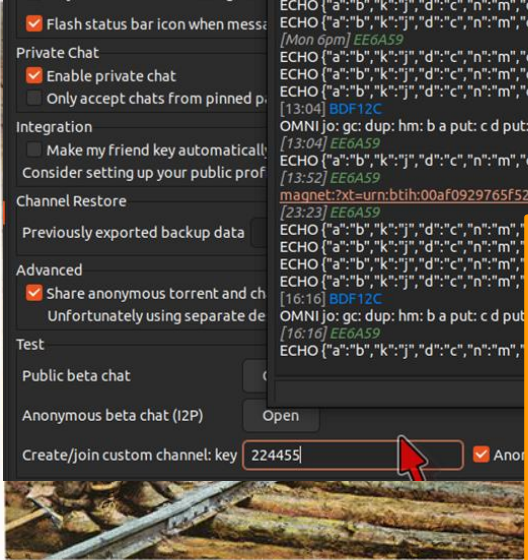
Increasing number of programmers are being laid off every year, and Phoscript provides a pathway to retrain these programmers with metaprogramming, as well as teach free software and abstract mathematics to high school students.

See SymForth C++ example.

(Monty Python) Joke: Use Phoscript to learn LISP.

6 metaprogramming magic words: String Split Array, Loop Push Eval.

"Anyone can program."

Did not have a pressing demand to promote Phoscript and FORTH, until now …. Over BitTorrent …. Should have discovered it earlier …. Why not?

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[Mon 6pm] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
[13:04] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1130 1300 + d2s: dbl put: je:
[13:04] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[13:52] EE6A59
magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960
[23:23] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[16:16] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1615 1300 + d2s: dbl put: je:
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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2915.0"}

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Channel Restore
Previously exported backup data

Advanced
☑ Share anonymous torrent and ch
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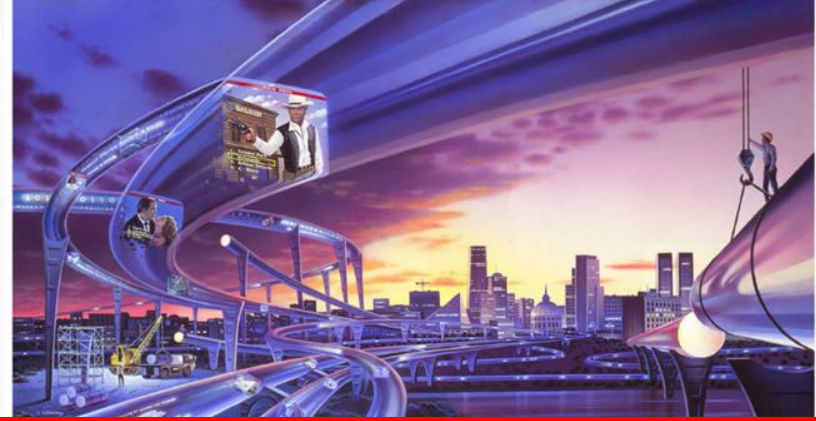
Test
Public beta chat

Anonymous beta chat (I2P)   Open

Create/join custom channel: key 224455   ☑ Anor

MMAGA Revenues 2023 (USD
Total: USD 1.611 Trillion (+7.2

600
400
200
0
Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Goo
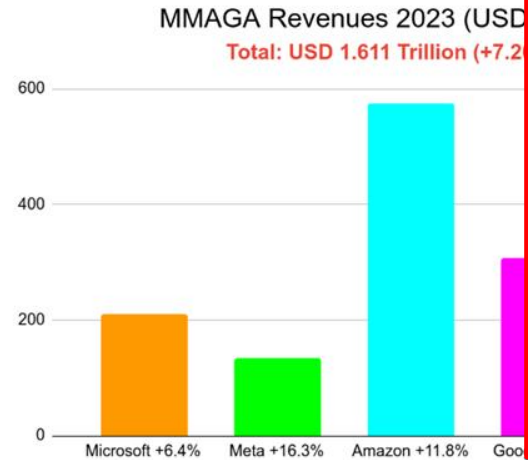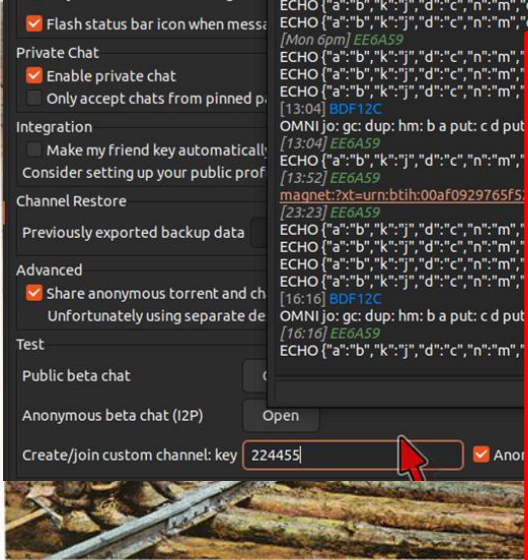
FORTH word vs. Hash

While making a video tutorial to explain the concept of hashcode to general viewers on YouTube, I used Hilbert's Infinite Hotel as an example.
As hash numbers are simply very large integers, they fit in well with Hilbert's Hotel quite naturally. I.e.
In Decentralised Metaverse, you can a room in Hilbert Hotel whose room number is a hash number.

MMAGA Revenues 2023 (USD...

Total: USD 1.611 Trillion (+7.2...

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FORTH Word vs. Hash

Automorphism: entry to abstract mathematics

Omni*Chat security: Every WORD Definition has a unique hash (code).

Automorphism: Each word is in turn defined by concatenation of a sequence of words.

Example: same as Omnihash, hash of list of hashes is another hash.

(Big topic on its own. Beyond the scope here.)

Variable based programming languages (VBPL) use random variable names in body – disrupt hash calculations. Corrected using Phoscript (converts VBPL to RPN / FORTH / Variableless Programming Languages VLPL) (bridging VBPL & VLPL: most significant contribution?)

Hash relates the technical aspect to the legal aspect of texts.
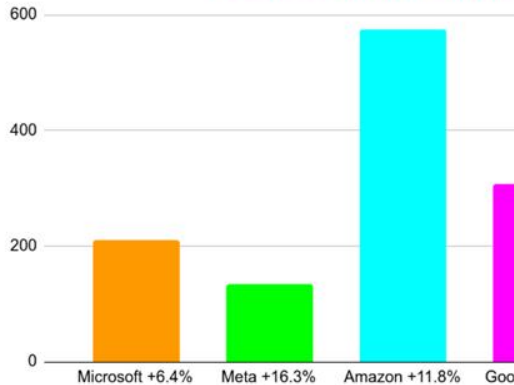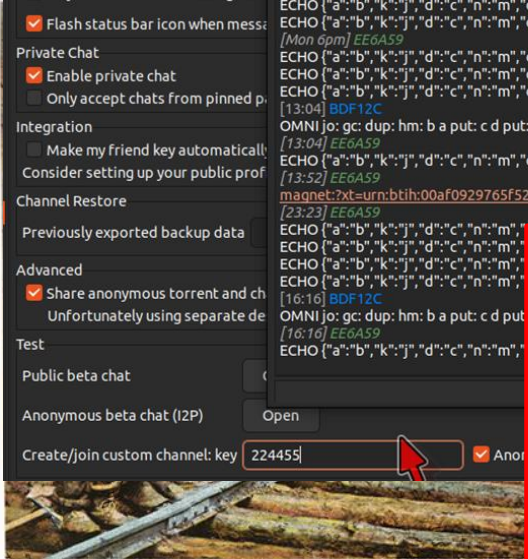
FORTH word vs. Hash

HOL Light Tutorial: introduction to abstract
    mathematics, LISP Ocaml. Convert to FORTH?
https://www.cl.cam.ac.uk/~jrh13/

Automorphism on Integers:
https://math.stackexchange.com/questions/156179/aut
    omorphism-on-integers

FORTH in Firefox: very likely JavaScript engine is a
    stack machine, modify it to run FORTH.
OR add other Intel x86 FORTH(s) into Firefox.

ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[Mon 6pm] EE6A59
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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[13:52] EE6A59
magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960
[23:23] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m"...
ECHO {"a":"b","k":"j","d":"c","n":"m"...
ECHO {"a":"b","k":"j","d":"c","n":"m"...
ECHO {"a":"b","k":"j","d":"c","n":"m"...
[16:16] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put...
[16:16] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m",...

Flash status bar icon when mess

Private Chat
- ☑ Enable private chat
- ☐ Only accept chats from pinned p

Integration
- ☐ Make my friend key automatically
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Channel Restore
Previously exported backup data

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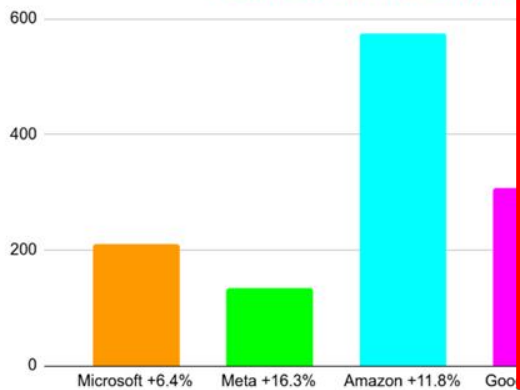Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Goo

Bitcoin & other Blockchains are known to use FORTH like script for programming. (Same principle as Omni*Chat?)

Is DNS the biggest obstacle to Decentralised Cloud & Metaverse? Perhaps. If each server address costs USD10 per month, imagine the total cost saving GLOBALLY.

BitTorrent & Blockchains are 2 "Hyper DNS" (H-DNS) systems that are known to work well, but not as ubiquitous as web servers. Omni*Chat shall change that. (H-DNS could mean "hidden", "hashed", etc.) Their source code can be examined to verify if they work on the same principles.

Left panel screenshots contain:

Flash status bar icon when mess...

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Enable private chat
Only accept chats from pinned p...

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Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Goo...

Not trying to be ambitious, but Phoscript & Omnihash seem to be playing several crucial roles for AI development in the future:

1. Phoscript provides a low barrier of entry for non-FORTH programmers to learn FORTH, starting from the most popular programming languages such as PPJJCC (PHP, Python, JavaScript, Java, C++, C#).

2. Phoscript MAY help simplify future AI chip design with Homotronic Computing.

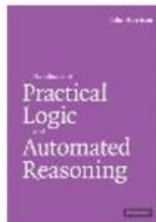*3. Omnihash makes Decentralised Cloud AI (DCAI) possible.*
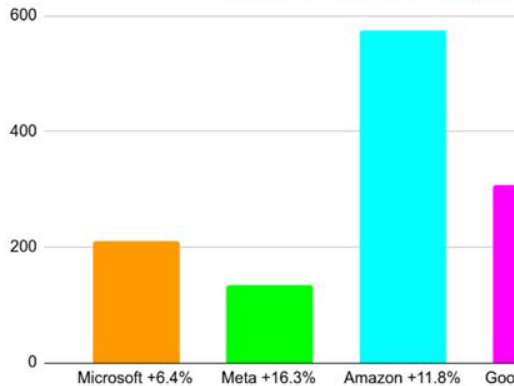
John Harrison

Amazon Web Services
1455 SW Broadway, Suite 1300
Portland, OR 97201
USA

email: jrh013@gmail.com

NEW My **book** code now has an **F# version**
and the interactive part has an **SML version**
Thanks to Eric Taucher, Jack Pappas, Anh-Dung Phan, Anders Schlichtkrull and Jørgen Villadsen.

I am a member of the Automated Reasoning Group at Amazon Web Services, after being previously at Intel Corporation. I'm interested in all aspects of theorem proving and verification and at Intel focused especially on numerical and mathematical applications. I'm also interested in floating-point arithmetic itself, and contributed to the revision process that led to the new IEEE 754 floating-point standard. Before joining Intel in 1998, I was a member of the Automated Reasoning Group at the Computer Laboratory of the University of Cambridge. I worked as a Research Associate and PhD student there, supervised by Mike Gordon, and after a spending a year in the Department of Computer Science of Åbo Akademi University in Finland, returned to Cambridge as a Research Associate working on Floating Point Verification.

- HOL Light theorem prover **NEW** Now hosted on Github
- My papers and other publications **NEW** Updated December 2015
- Slides from some of my recent talks **NEW** Updated December 2015
- Code accompanying my recent book
- Errata for the book
- My 1996 functional programming course **NEW** Russian version
- Detailed contact information

Page last updated Thursday 28th February 2019.

3 Answers

Sorted by: **Highest score (default)**

22

Automorphism is a permutation of a set which respects some structure on the set. What structure? It varies. Automorphism is a general term and does not apply simply to groups, or rings.

In the context of $(\mathbb{Z}, +)$ as an additive group, we say that $f\colon \mathbb{Z} \to \mathbb{Z}$ is an automorphism if:

1. f is a bijection,
2. $f(m) + f(n) = f(m+n)$,
3. $f(0) = 0$.

Now suppose that f is an automorphism like that. Well, $f(0) = 0$. If $f(1) = 1$ then f has to be the identity, because for $n > 0$ we have

$$f(n) = f(\underbrace{1 + \ldots + 1}_{n \text{ times}}) = \underbrace{f(1) + \ldots + (1)}_{n \text{ times}} = \underbrace{1 + \ldots + 1}_{n \text{ times}} = n$$

and if $n < 0$ then

$$0 = n + (-n) = f(n) + f(-n) = f(n) + (-n)$$

and therefore $f(n) = n$ as well.

Similarly if $f(1) = -1$ then $f(n) = -n$ for all n. So these are two

Right sidebar:

- Why is one process ps command showing spaces around a directory instead of slashes?
- Why use a special "Name" class (instead of just a string) for representing object names in C++?
- Is quantum gravity research implying that gravity is actually a force and not spacetime curvature according to GR?
- Legend issue with Log10 scaling on ListContourPlot
- What is 'T' rating on a glass fuse?
- How would a predator adapt to prey on sapient species?
- Importing Specific Data from a Text File
- How to select all the vertices on one side of an edge loop?
- Are there any languages where conditions are not first-class expressions?
- When submitting a letter to an agent for publication of a novel, what does it mean to say that your manuscript is "complete"?
- When or where did Gustave Flaubert say that Alexander Pushkin's work was "dull"?
- The fact/truth distinction and self-deception
- Would civilized bloodsuckers slaughter livestock or bloodlet them?
- Is it a cartesian product?
- Did Tolkien invent Bilbo saving the Dwarves but

[beige_necklace_3441@puter.com /beige_necklace_3441]$

I've had nice results with `djb2` by Dan Bernstein.

259

```c
unsigned long
hash(unsigned char *str)
{
    unsigned long hash =
    int c;

    while (c = *str++)
        hash = ((hash <<

    return hash;
}
```

Contract to hash:

Ray Wang to pay Chris Lee 1 gram of .999 gold coin.

Omnihash

Omnihash of Contract:

Bxw0c5y+qg==

OHC3 Triplets:

Bxw0c5y+qg== DcBAqHa0vw== FaLpUz2mPA==

OHC3

ROOT

Root Hash (Hash of All Hashes):

FAY1TurtMg==

2021 | 1 gram (0.03 oz)
1 oz sold (all years combined)

Buy at 51.1%	Tier 1	RM542.57	Stocks in:
	Tier 2	RM542.34	JB - 0
	Tier 3	RM542.11	KL - 0
	Tier 4	RM541.88	Penang - 0
	Tier 5	RM541.65	
Sell at +0.0%		RM358.77	

% over gold, view details

HXBC Hash Bullion Coin is simply a PROTOCOL to label a piece of gold or silver coin TEMPORARILY, in order to facilitate an online payment, between a payor and a payee.

The payee, upon receiving a HASHCODE representing a physical gold coin kept in the possession of a HXBC Agent or HXA, may instruct the Agent to redeem the payment in actual physical gold or silver coins, or in equivalent fiat or cryptocurrencies.
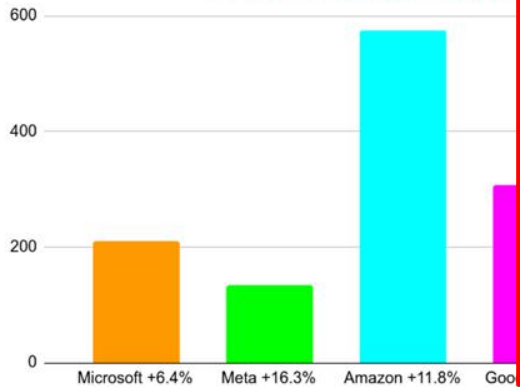
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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[Mon 6pm] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
[13:04] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1130 1300 + d2s: dbl put: je:
[13:04] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[13:52] EE6A59
magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960
[23:23] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3326.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3330.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2430.0"}
[16:16] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put: m n put: 1615 1300 + d2s: dbl put: je:
[16:16] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2915.0"}

Flash status bar icon when messa

Private Chat
☑ Enable private chat
☐ Only accept chats from pinned p

Integration
☐ Make my friend key automatically
☐ Consider setting up your public prof

Channel Restore
Previously exported backup data

Advanced
☑ Share anonymous torrent and ch
☐ Unfortunately using separate de

Test
Public beta chat
Anonymous beta chat (I2P)   Open
Create/join custom channel: key 224455   ☑ Anonymous (I2P)   Open

MMAGA Revenues 2023 (USD
Total: USD 1.611 Trillion (+7.2

600
400
200
0
Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Goo
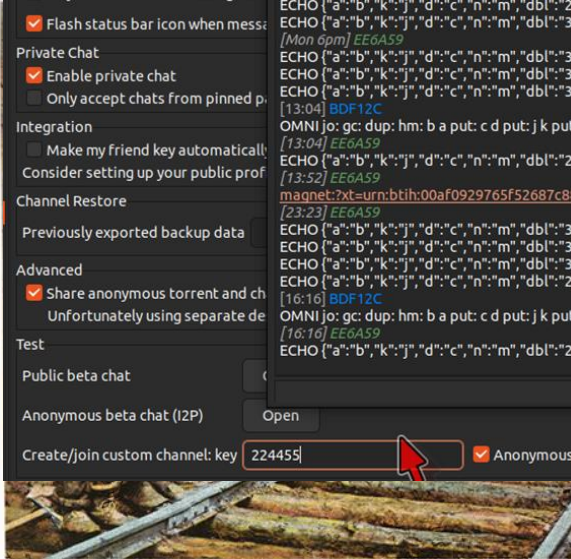
JavaScript PHP message example
- *Jitsi Meet show Mobile version via AnyDesk?*

Extend Phoscript to Verilog etc. emphasis

Flash status bar icon when messa...

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ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"}
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"}
[Mon 6pm] EE6A59
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[23:23] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3...
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3...
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3...
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2...
[16:16] BDF12C
OMNI jo: gc: dup: hm: b a put: c d put: j k put...
[16:16] EE6A59
ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"2...

MMAGA Revenues 2023 (USD billi...
Total: USD 1.611 Trillion (+7.26%)

Microsoft +6.4%   Meta +16.3%   Amazon +11.8%   Google +9...

Vernor Vinge's "technological singularity".

*AI needs to be Decentralised, using hash index for training data, starting with Omni*Chat.*

Can see initial progress of DCAI by end of 2025.

(Sorry Marvels fans for DC in Decentralised Cloud /s)

*If Omni*Web is indeed breakthrough, then it comes from continuous hardwork and unexpected places …*

Why not found earlier?