

# Blind Hackers

Patrick Smyth

September 17, 2016

## Technological trends

- Maker movement
- Augmented reality
- Digital books

## Left behind?

### Solutions

- Advocacy
- Education
- Technology?

## What then?

## Haccessibility

## What's a hacker?

- MIT AI lab
- Definitions
- 90s shift

## New paths to access

- Tinkering
- Circumventing

## Projects

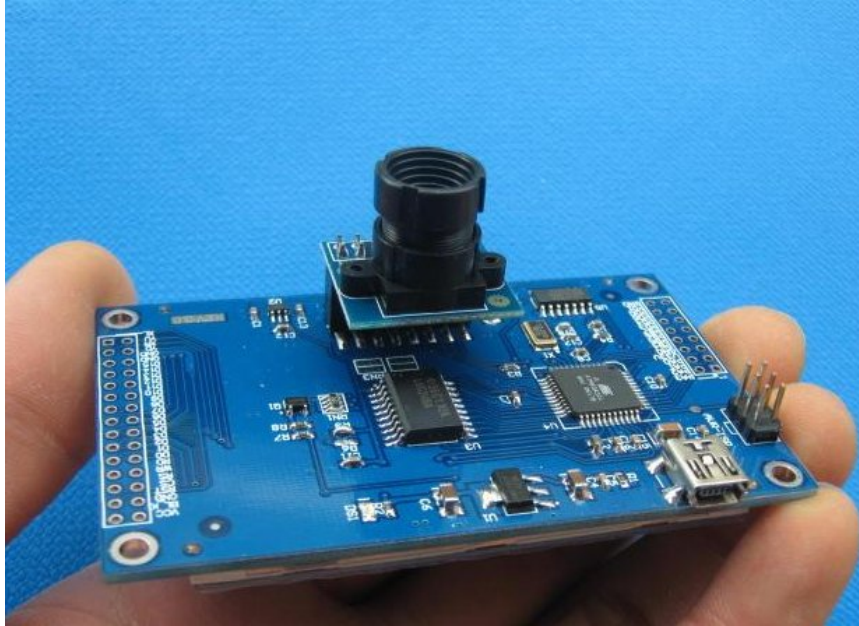
TalkingArch



## Raspberry VI



## Blind Arduino



vOICe



Pokemon Crystal Access



```

[command (php -h -d "error_reporting=E_ALL" -d "display_errors=1" -d "log_errors=1" source)
(error-patterns)
(line-start (or "Parse" "Fatal" "Syntax" "Error" (any "E_*" "F_*" "S_*" "E_*"))
(message "in " (filename) " on line " (line-end)))
(modes (php-mode php-mode web-mode)))

(setq c-basic-offset 2)
[beta c-default-style "par2"]
(add-hook 'web-mode-hook (lambda ()
  (flycheck-select-checker 'my-php)
  (flycheck-mode)))

(add-hook 'after-init-hook #'global-flycheck-mode)
(setq flycheck-phpmd-rulesets ('(codestyle "controversial" design "naming" unusedcode)))
[set flycheck-phpcs-standard "Squiz"]

[books for an emacs
+ invented July 16 2014

(eval-after-load 'highlight-symbol-mode'
  (add-hook 'prog-mode-hook (setq highlight-symbol-mode t)))

(eval-after-load 'prog-mode-hook 'hl-line-toggle-when-idle)

(eval-after-load 'hl-scss-mode'
  (add-hook 'prog-mode-hook 'hl-scip-mode))

(eval-after-load 'hl-line-mode'
  (prog
    (add-hook 'dired-mode-hook 'hl-line-mode)
    (add-hook 'buffer-menu-hook 'hl-line-mode)
    (add-hook 'package-menu-mode-hook 'hl-line-mode)
    (add-hook 'recentf-mode-hook 'hl-line-mode)
    (add-hook 'gnus-group-view-mode-hook 'hl-line-mode)
    (add-hook 'gnus-summary-mode-hook 'hl-line-mode)))

(defun setup-lisp-minor-modes ()
  [smartparams-mode]
  [highlight-quoted-mode])

[Unlabeled]==== init.c ===== failed to import extension lib: the module named lib[

dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2009-07-14 diagnostics
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 24576 2013-01-12 ehone
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 4988 2010-11-21 ex-10
dwmrvmvnx 2 TrustedInstaller TrustedInstaller 2871888 2011-03-25 explorer.exe
dwmrvmvnx 2 TrustedInstaller TrustedInstaller 15588 2009-07-15 fgate.exe
dwmrvmvnx 2 TrustedInstaller TrustedInstaller 18826 2009-07-15 fgate
dwmrvmvnx 1 ncsj Domain Users 71875 2012-11-16 h1st log
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 32 2013-12-18 inf
dwmrvmvnx 2 TrustedInstaller TrustedInstaller 43131 2009-07-15 iibbin
dwmrvmvnx 1 SYSTEM SYSTEM 1485 2009-05-18 iocsnapi.inf
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 19336 2009-07-13 netapi.sys
dwmrvmvnx 1 Administrators Domain Users 14 2014-01-15 outlook.data.dat
dwmrvmvnx 1 Administrators Domain Users 0 2013-09-11 outlook.exe
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 398336 2009-07-13 regedit.exe
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2014-03-02 rescache
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2009-07-14 schmsg
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2010-11-21 security
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 4086 2011-09-08 servicing
dwmrvmvnx 1 SYSTEM SYSTEM 50026 19-19-15-09 setupapi.log
dwmrvmvnx 1 SYSTEM SYSTEM 0 2009-07-14 setuperr.log
dwmrvmvnx 2 TrustedInstaller TrustedInstaller 57672 2012-02-11 splwow64.exe
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2009-07-13 system
dwmrvmvnx 1 SYSTEM SYSTEM 219 2009-06-10 system.ini
dwmrvmvnx 1 Administrators Administrators 94784 2009-06-10 twain.dll
dwmrvmvnx 1 TrustedInstaller TrustedInstaller 0 2009-07-14 twain32.dll]

[OS: Windows 876 of 8.24 (374.76) (Direct by new core: 11.34) 12:28PM 6.12]

[OS: Windows 876 of 8.24 (374.76) (Direct by new core: 11.34) 12:28PM 6.12]

```

## Eloud

```
emacs@kobe.laptop
2007-01-10 [ 27: Logan Shaw ] Re: Which data store to use for fast, highly available access?
2007-01-10 [ 7: Logan Shaw ] Re: how to use setenv function in GNU C for programming in linux?
R +2007-01-11 [ 31: Barry Margolin ] Re: memcpy() and CPU usage
2007-01-11 [ 24: David Schwartz ] Re: memcpy() and CPU usage
2007-01-10 [ 106: Logan Shaw ] Re: memcpy() and CPU usage
2007-01-11 [ 21: Christian Christmann ] Strings in Makefile
2007-01-11 [ 18: Rainer Temme ] Re: Strings in Makefile
2007-01-11 [ 9: Christian Christmann ] Re: Strings in Makefile
2007-01-11 [ 8: smasuku@gmail.com ] Many to Many Transmission via UDP
2007-01-11 [ 20: Rainer Temme ] Re: Many to Many Transmission via UDP
2007-01-11 [ 21: Spoon ] Re: Many to Many Transmission via UDP
2007-01-11 [ 36: Spoon ] UDP sockets and IPv4 header fields
2007-01-11 [ 22: Rainer Temme ] Re: UDP sockets and IPv4 header fields
--
c.u.programmer [136614] (23 more) Top (3,20) (Summary Unplugged)-----
Date: Thu, 11 Jan 2007 00:44:59 -0500
From: Barry Margolin <barmar@alum.mit.edu>
Subject: Re: memcpy() and CPU usage
Newsgroups: comp.unix.programmer
Message-ID: <barmar-AS26M.00145911012007@comcast.dca.giganews.com>

In article <d10dnU06X5K1DjvnZ2dnUVZ_ruknZ2d@giganews.com>,
"David T. Ashley" <dta@e3ft.com> wrote:
> "psp" <pradhan.pushkar@gmail.com> wrote in message
> news:1160453014.507334.125320e7792000@sv.googlegroups.com...
> I have a very CPU intensive application that should meet a specified
> response time. One of my algorithms requires me to do a memcpy() of N
> rows (one row = 2048 elements) very frequently.
>
>
> I was wondering how memcpy() is implemented internally, i.e. does it
> involve the CPU or the bus can handle transfer between different
> locations?
>
> If the rows are in a regular data arrangement, instead of copying the data,
> you can change some control information that describes where a given row is.
>
> For example, one might have an array of pointers, each pointing to a row
> with 2048 elements.
>
> Instead of moving the elements, just move the pointers around.
>
> I suggest algorithmic improvement, if possible.

If you're going to be modifying the data, and you need to retain the
original contents, you need to make a copy.

--
Barry Margolin, barmar@alum.mit.edu
Arlington, MA
*** PLEASE post questions in newsgroups, not directly to me ***
*** PLEASE don't copy me on replies, I'll read them in the group ***

--
c.u.programmer [ h ] Re: memcpy() and CPU usage All (6,0) (Article)-----
```



DeDRM



## Hacktivism and accessibility

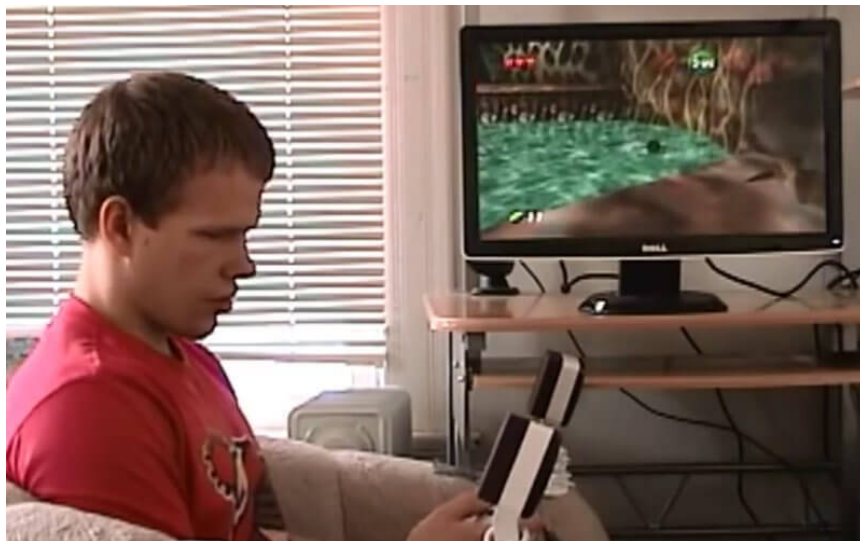
- Snowden
- Crypto wars
- SciHub
- Reproducibility

## Our position

- Reason for openness
- People care
- Empowerment

## Moving forward

- Text, text, text
- Bootstrapping
- Persistence



## Get in touch

- Email: [patricksmyth01@gmail.com](mailto:patricksmyth01@gmail.com)
- Twitter: [@psmyth01](https://twitter.com/psmyth01)
- GitHub: [smythp](https://github.com/smythp)