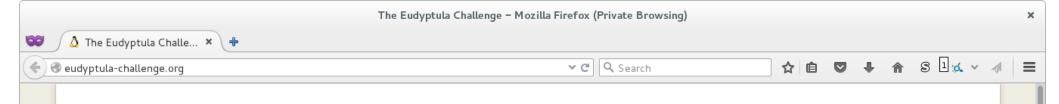
Linux Kernel fun with the Eudyptula Challenge



Drew Fustini @pdp7

http://eudyptula-challenge.org/



The Eudyptula Challenge

What is it?

The Eudyptula Challenge is a series of programming exercises for the Linux kernel, that start from a very basic "Hello world" kernel module, moving on up in complexity to getting patches accepted into the main Linux kernel source tree.

How do I do it?

Email little at eudyptula-challenge.org and say that you want to join in. You will receive an email with your first exercise and details on how the challenge is run. All communication goes through email, just like the Linux kernel is developed.

Please note, all HTML-formatted email will be merrily rejected, please fix your email client to not send HTML email if you wish to do this challenge. Linux kernel mailing lists reject HTML email and so do we.

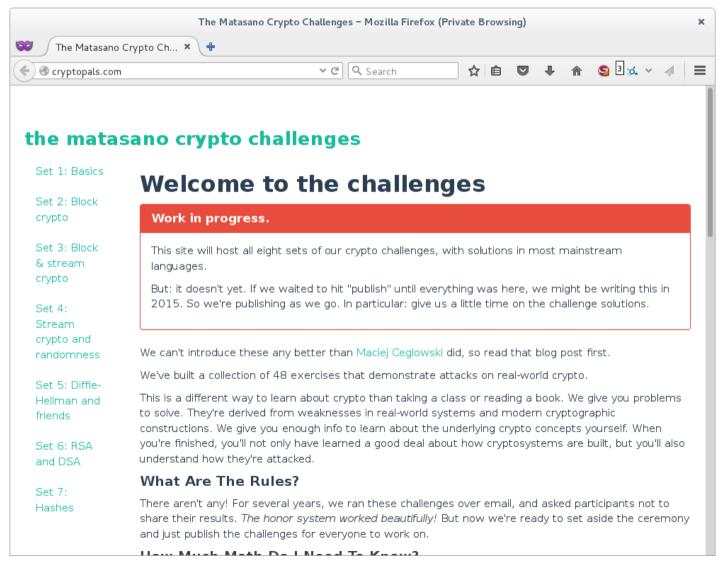
What are the rules?

What?

 "The Eudyptula Challenge is a series of programming exercises for the Linux kernel, that start from a very basic "Hello world" kernel module, moving on up in complexity to getting patches accepted into the main Linux kernel source tree."

Chicago Connection!

 "This Challenge is also modeled after the wonderful Matasano Crypto Challenge, which, if you haven't taken it already, you really should do so, it's smashing fun."



20 tasks

- "Hello World" kernel module
- Built custom kernel from git
- Coding style fixes
- Submit patch to mainline
- and beyond!

Skills?

- "A basic understanding of the C programming language is required."
- "No previous Linux kernel coding experience is needed, but that of course will help."
- Follow the rules!
- Most important skill... patience!
 - important when participating a large Open Source project

Results

- "172 people have a patch accepted into the kernel tree." (LinuxCon August 2014 talk)
- 1 person even got a job as a result!
 - "I, just now, got a job as an embedded software engineer because of this challenge. The interview was focused around it:) It's one of the best things I've done during my free time. true story."

October	2015
<u>Stat</u>	<u>:S</u>

Task	Number	P
Fi	nished	
	20	
	19	
	18	
	17	
	16	
	15	
	14	
	13	
	12	
	11	
	10	
	09	
	08	
	07	
	06	
	05	

<u>Queue</u>

October 2	2015	Task Number	People	Queue
<u>October 2015</u>		Finished	111	
Stats		20	36	12
<u> Otats</u>		19	15	0
		18	34	22
		17	8	0
Active:	4,822	16	37	0
	4,022	10	19	11
Duplicates:	3	14	17	5
_		13	3	0
Removed:	8,022		7	0
		11	52	1
Total:	12 , 844	10	75	0
		0 9	61	14
	,	08	211	173
		07	51	0
		06	296	50
		05	899	13
		04	555	37
		03	303	4
		02	793	2
		01	1239	23

Links

Linux.com: "Learn How to Contribute to the Linux Kernel, Take the Eudyptula Challenge"

LWN.net: Taking the Eudyptula Challenge

LinuxCon Chicago 2014 talk

Kernel Newbies

- A great resource!
- http://kernelnewbies.org/FirstKernelPatch
- http://kernelnewbies.org/OutreachyApply