



## ESPC 2017 - Regina (Saskatchewan)



## Biographie

I've been working with computers as long as I remember. At age four, I had a project to find the IP address of every computer on the network at my house. At age five, my parents showed me how to use HTML. To their surprise, they came home the next day to find I had created an entirely new webpage. At age six, I began with software development, with the Visual Basic programming language. At age thirteen, I participated in the Hack The North programming competition, receiving an honorable mention for the sponsor prize from Pebble. The summer between grades seven and eight, I took an interest in computer security, consuming large amounts of online talks and Wikipedia articles, even designing some of my own protocols. Later on during eighth grade, I designed a number of cryptographic primitives, including a block cipher, mode of operation, and hash function. In my spare time, I write software, devour old electronics for spare parts, and play grand strategy video games, Minecraft, and Kerbal Space Program.

## **Ethan White**

## **CPU Load Covert Channels Exploiting Interrupt Latency**

always cause full load on one processor core.

Défi:	Innovation	
Catégorie:	Intermédiaire	
Région:	Waterloo-Wellington	
Ville:	Waterloo, ON	
École:	Waterloo Collegiate Institute	
Sommaire: A covert channel security vulnerability was discovered that allows a remote		
	adversary to perform easy deanonymization of anonymous Internet users.	
	This attack exploits the fact that latency to reply to network requests	
	decreases when load on the computer being attacked is increased. It is	
	suggested to mitigate this attack by maintaining a running process that will	

Prix	Valeur
Prix d'excellence - Intermédiaire - Médaille de bronze	
Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	1 000,00 \$



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