Questions, Issues, Concerns, Suggestions Welcome at any time Even Now

Sun City Computer Club

Windows SIG

January 23, 2018

Safer not Safe
E-postcard not e-mail
ADMINISTRATOR
Passphrases not passwords
Radio not wireless

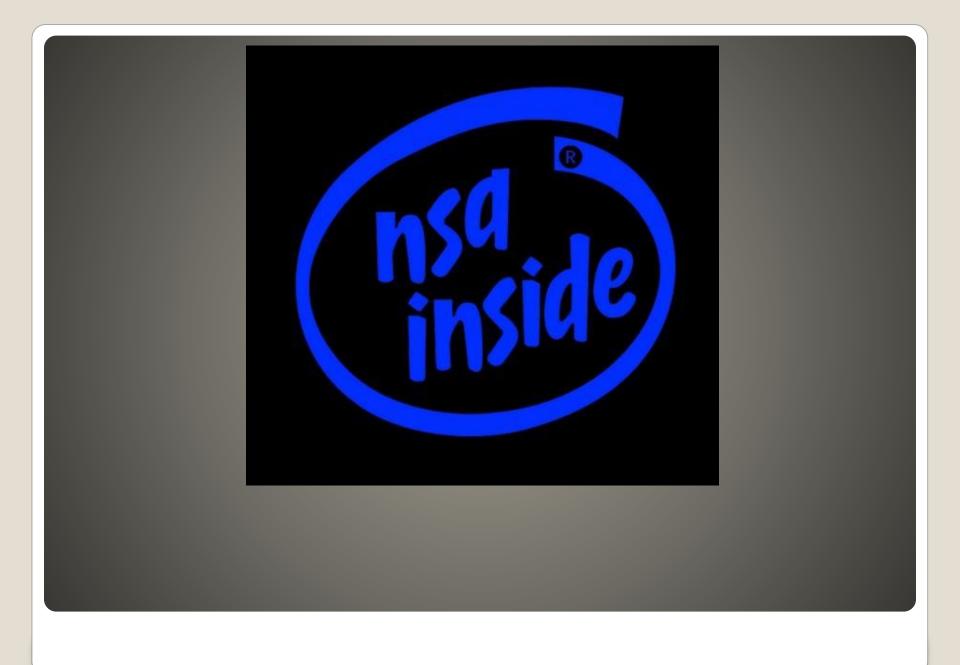




Spectre and Meltdown

- speculative execution, branch predictionIoT
- Any/everything
- Kernel level code impacts
- Conspiracy??





- ALL (USA?) CPUs for last decade
- BIOS, Firmware, microcode
- Work on remediation ongoing for months
- Linux kernel
- Speculative execution pipelining
- Cache lines filled at exception
- Code on your system
- "Gathered" memory may be of value
- Remediation may affect performance
- Internet of Things Thing Things
- WEB and Virtual machines

Games

Meltdown and Spectre

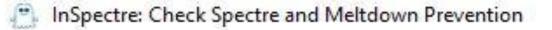
C:\Users\john\bin>SpecuCheck-x86.exe SpecuCheck v1.0.5 -- Copyright(c) 2018 Alex Ionescu https://ionescu007.github.io/SpecuCheck/ -- @aionescu Mitigations for CVE-2017-5754 [rogue data cache load] [-] Kernel VA Shadowing Enabled: yes > with User Pages Marked Global: 10 ---> with PCID Flushing Optimization (INVPCID): yes Mitigations for CVE-2017-5715 [branch target injection] [-] Branch Prediction Mitigations Enabled: Disabled due to System Policy (Registry): 00 ---> Disabled due to Lack of Microcode Update: [-] CPU Microcode Supports SPEC_CTRL MSR (048h): Windows will use IBRS (01h): Windows will use STIPB (02h): [-] CPU Microcode Supports PRED_CMD MSR (049h): Windows will use IBPB (01h):

Advanced

Registry Editor le Edit View Fa omputer\HKEY_LOC,	vorit <mark>es</mark> Help AL_MACHINE\SOFTWARE\Microsoft\\	Vindows\Current\	/ersion\QualityCompat			 <u> </u>	
	PropertySystem Proximity PushNotifications QualityCompat Reliability	^	Name (Default) cadca5fe-87d3-4b96-b7fb-a231484277cc	Type REG_SZ REG_DWORD	Data (value not set) 0x00000000 (0)		

Advanced







Check Windows operating system and processor hardware safety. Freeware by Steve Gibson / @Sggrc



update the system's hardware and software for maximum security and performance.

This system's present situation:

 This 64-bit version of Windows is <u>not aware of either</u> the Spectre or Meltdown problems. Since Intel processors are vulnerable to both of these attacks, this system will be vulnerable to these attacks until its operating system has been updated to handle and prevent these attacks.

See GRC's InSpectre webpage at: https://grc.com/inspectre.htm for a full explanation of the use and operation of this freeware utility.

Enable Meltdown Protection

Enable Spectre Protection



ocesses	Performance App history	Startup User	s Details	Services			
mand	CPU 21% 2.49 GHz	CPU % Utilizatio	n		Intel(R) Co	ore(TM) i5-457	0 CPU @ 3.20GHz
	Memory 6.4/11.9 GB (54%)						
d	Disk 0 (C: D:) 4%						٨
LL M	Ethernet S: 160 R: 88.0 Kbps	~			~~ ~	M	
	Wi-Fi Not connected	4 minutes Utilization	Speed		Base speed:	3.20 GHz	C
	Bluetooth	21% Processes	2.49 C	Hz Handles	Sockets: Cores:	1 4 4	
	GPU 0 Intel(R) HD Graphics 460	232 Up time 0:03:31	3358	108966	Logical processors: Virtualization: Hyper-V support: L1 cache: L2 cache: L3 cache:	4 Disabled Yes 256 KB 1.0 MB 6.0 MB	

Microsoft patch office docs ALL versionsOffice macros

- AOL and Verizon emails from Gmail domain
- Facebook Help "Foreign interference"



n	← Back
a	foreign interference ×
Č J	What is our action plan against
	We've taken down fake accounts and Pages created by foreign actors attempting to interfere in the 2016 US Elections. Check to see if you liked or followed a Facebook Page or Instagram account created by the Internet Research Agency - the organization associated with these accounts and Pages.

• Patch Windows backup, MCT, restore point Check the patches Patch any/everything backup, save settings & configurations Monitor news, accounts, environment Use multiple browser instances For sensitive sites Use more secure browser Use browser add-ons & extensions Check those browser settings, add-ons, etc.



BEFORE EACH sensitive session

- Check add-ons and extensions for updates
- Check browser for updates
- Open ONE tab only
- Use multi-factor authentication
- Enable minimal settings
- Check for online alerts
- Monitor accounts
- Close & exit browser
 Client side ONLY



Use Linux VM requires some effort
Chromebook not to my liking
Quad 9 DNS settings on devices
Internet of Things
Home infrastructure
Use for old smart devices



The Adthink script contains very detailed categories for personal, financial, physical traits, as well as intents, interests and demographics. It is hard to comment on the exact use of these categories but it gives a glimpse of what our online profiles are made up of:

birth date, age, gender, nationality, height, weight, BMI (body mass index), hair_color (black, brown, blond, auburn, chestnut, red, gray, white), eye_color (amber, blue, brown, grey, green), education, occupation, net_income, raw_income, relationship states, seek_for_gender (m, f, transman, transwoman, couple), pets, location (postcode, town, state, country), loan (type, amount, duration, overindebted), insurance (car, motorbike, home, pet, health, life), card_risk (chargeback, fraud_attempt), has_car(make, model, type, registration, model year, fuel type), tobacco, alcohol, travel (from, to, departure, return), car_hire_driver_age, hotel_stars

Audienceinsights.net

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NAME (As it appears on your card)		bundle?Orgid=	▶ 5: {Kind: 4, When: 385442, Args: [1072, "value", "28]	.7-	
NAME (As it appears on your card)		rs.fullstory.com/	▶ 7: [When: 385488, Kind: 14, Args: [69] ▶ 8: [When: 385566, Kind: 18, Args: [104], "John Doe"]]		
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		bundle?Orgid=	▶ 17: {When: 386393, Kind: 12, Args: [72, 313]}		
		rs.fullstory.com/	▶ 18: {When: 386394, Kind: 24, Args: [1041]}		
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United State	s •	rs.fullstory.com/	▶ 38: {When: 388422, Kind: 18, Args: [16.7, "411"]}		
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		rs.fullstory.com/	▶ 36: {When: 388671, Kind: 15, Args: [49]}		
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		and the second s	▶ 43: {When: 389775, Kind: 14, Args: [49]}		

Web Session Replay

Questions, suggestions, comments?

Chicken Little

- Tortoise and hare
- Each of us safer, all of us safer