

**STOP INTERRUPTING**



**ME!!!!!!!**

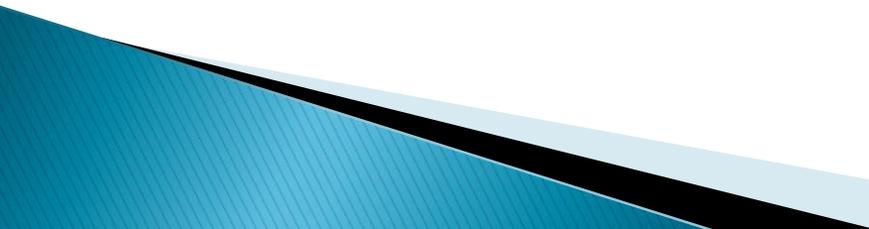
# STOP INTERRUPTING ME OR HOW TO SET PRIORITY FOR YOUR PROCESS (IN WINDOWS 10)

Realtime  
High

Above Normal  
Normal

Below Normal  
Low

# Default **HIGH** Priorities

- ▶ USB wired Mouse interrupt
  - ▶ USB wired Keyboard interrupt
  - ▶ USB wired Pen / Panel (touchscreen) interrupt
  - ▶ Disk Cache interrupt
- 

# Default **Above Normal** Priorities

- ▶ Ethernet Adapter polled
  - ▶ Wi-Fi Adapter polled
  - ▶ Microsoft-assigned apk, com, exe polled
  - ▶ Bluetooth (built-in) polled
  - ▶ Wi-Fi mouse/keyboard/pen/panel polled
- 

# Default **Normal** Priorities

- ▶ Windows Defender interrupt & polled
  - ▶ McAfee, Norton, CCleaner, anti-virus – interrupt
  - ▶ Everything else (almost) – interrupt or polled
- 

# A word about Dependencies

- ▶ Many processes *depend* on other processes to fully function.
- ▶ If dependencies are not present, the process and its consequences usually sits idle and unresponsive.
- ▶ **GOOD** – more resources for MEEEeeee!

# Minimizing Interruptions (and Polling)

- ▶ Use a USB wired Mouse/Keyboard/Panel
  - ▶ If not necessary at my priority time, turn off
    - Ethernet Adapter
    - Wi-Fi Adapter
    - Bluetooth
    - Anti-virus
- 

# Big Poll and Interrupt Hogs



- ▶ Email
- ▶ Apple, Microsoft, Play stores (running or not)
- ▶ Adobe anything
- ▶ Anti-virus anything (Windows Defender worst)
- ▶ Cloud anything
- ▶ Most Microsoft, Alphabet, Apple, etc. processes that are constantly sending info.



# Turning Off the Big Four

Disabling Ethernet, Wi-Fi, Bluetooth, and anti-virus removes the communication *dependencies* of all those hidden processes and services slowing you down!

They (almost) all finish what they are doing and go idle. **GOOD.**

# Turn off Comms

- ▶ Settings > Devices > Bluetooth > Off
  - ▶ Settings > Network and Internet > Change Adapter Options > Ethernet > Disable this device
  - ▶ Settings > Network and Internet > Change Adapter Options > Wi-Fi > Disable this device
  - ▶ Suspend your anti-virus (or not)
- 

# Adjust *YOUR* Process Priority

Four methods to change priority

- ▶ Change RUNNING Process in Task Manager
- ▶ START a Process from Command Prompt or Shortcut
- ~~▶ Change RUNNING Process in Power Shell~~
- ~~▶ Change RUNNING Process in Command Prompt~~ **Too Complicated**

# Task Manager

- ▶ CTRL+LSHIFT+ESC = Task Manager
- ▶ CTRL+ALT+DEL = System screen >  
Task Manager

Name	PID	Status	User name	CPU	Memory (active private working set)	UAC virtualization
System Idle Process	0	Running	SYSTEM	99	8 K	
Taskmgr.exe	11032	Running	IccEngineer_2	01	25,104 K	Not allowed
svchost.exe	3900	Running	LOCAL SERVICE	00	13,048 K	Not allowed
csrss.exe	7860	Running	SYSTEM	00	1,388 K	Not allowed
System interrupts	-	Running	SYSTEM	00	0 K	
dwm.exe	4904	Running	DWM-4	00	41,420 K	Disabled
NortonSecurity.exe	4004	Running	SYSTEM	00	26,820 K	Not allowed
System	4	Running	SYSTEM	00	24 K	
svchost.exe	1972	Running	SYSTEM	00	76,928 K	Not allowed
SecurityHealthService.exe	10020	Running	SYSTEM	00	3,248 K	Not allowed
explorer.exe	8220	Running	IccEngineer_2	00	28,836 K	Disabled
SearchIndexer.exe	6912	Running	SYSTEM	00	23,028 K	Not allowed
ctfmon.exe	6576	Running	IccEngineer_2	00	2,884 K	Disabled
svchost.exe	2768	Running	IccEngineer_2	00	6,608 K	Disabled
IntuitUpdateService.exe	8940	Running	SYSTEM	00	19,148 K	Not allowed
LBGovernor.exe	10948	Running	IccEngineer_2	00	1,632 K	Not allowed
svchost.exe	88	Running	SYSTEM	00	11,244 K	Not allowed
svchost.exe	8920	Running	NETWORK SERVICE	00	3,964 K	Not allowed
svchost.exe	9668	Running	SYSTEM	00	1,828 K	Not allowed
NortonSecurity.exe	7708	Running	IccEngineer_2	00	4,564 K	Disabled
svchost.exe	1064	Running	NETWORK SERVICE	00	15,136 K	Not allowed
lsass.exe	868	Running	SYSTEM	00	6,620 K	Not allowed
svchost.exe	4000	Running	SYSTEM	00	2,932 K	Not allowed
svchost.exe	924	Running	NETWORK SERVICE	00	7,544 K	Not allowed
svchost.exe	8160	Running	SYSTEM	00	4,252 K	Not allowed
svchost.exe	3324	Running	LOCAL SERVICE	00	11,848 K	Not allowed
svchost.exe	2964	Running	SYSTEM	00	1,600 K	Not allowed
svchost.exe	2612	Running	SYSTEM	00	9,276 K	Not allowed
Registry	120	Running	SYSTEM	00	9,060 K	Not allowed
svchost.exe	1748	Running	LOCAL SERVICE	00	1,664 K	Not allowed
smartscreen.exe	6640	Running	IccEngineer_2	00	10,784 K	Disabled
svchost.exe	2268	Running	LOCAL SERVICE	00	2,436 K	Not allowed
svchost.exe	2932	Running	LOCAL SERVICE	00	1,600 K	Not allowed
WmiPrivSE.exe	1952	Running	NETWORK SERVICE	00	1,896 K	Not allowed
svchost.exe	5556	Running	SYSTEM	00	1,312 K	Not allowed
WmiPrivSE.exe	10544	Running	NETWORK SERVICE	00	1,556 K	Not allowed
svchost.exe	1688	Running	LOCAL SERVICE	00	4,512 K	Not allowed
svchost.exe	810	Running	SYSTEM	00	5,200 K	Not allowed

# Task Manager -> Detail Tab

- ▶ “NAME Process” > LCLICK to Select
- ▶ RCLICK > HOVER Set Priority> LCLICK Select
- ▶ “Do you want to change priority of “NAME Process?”
- ▶ Select LCLICK “Change Priority”

Close Task Manager if you like. You can always leave it open (reduced) and reset you Process priority to Normal when you are finished.

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

1

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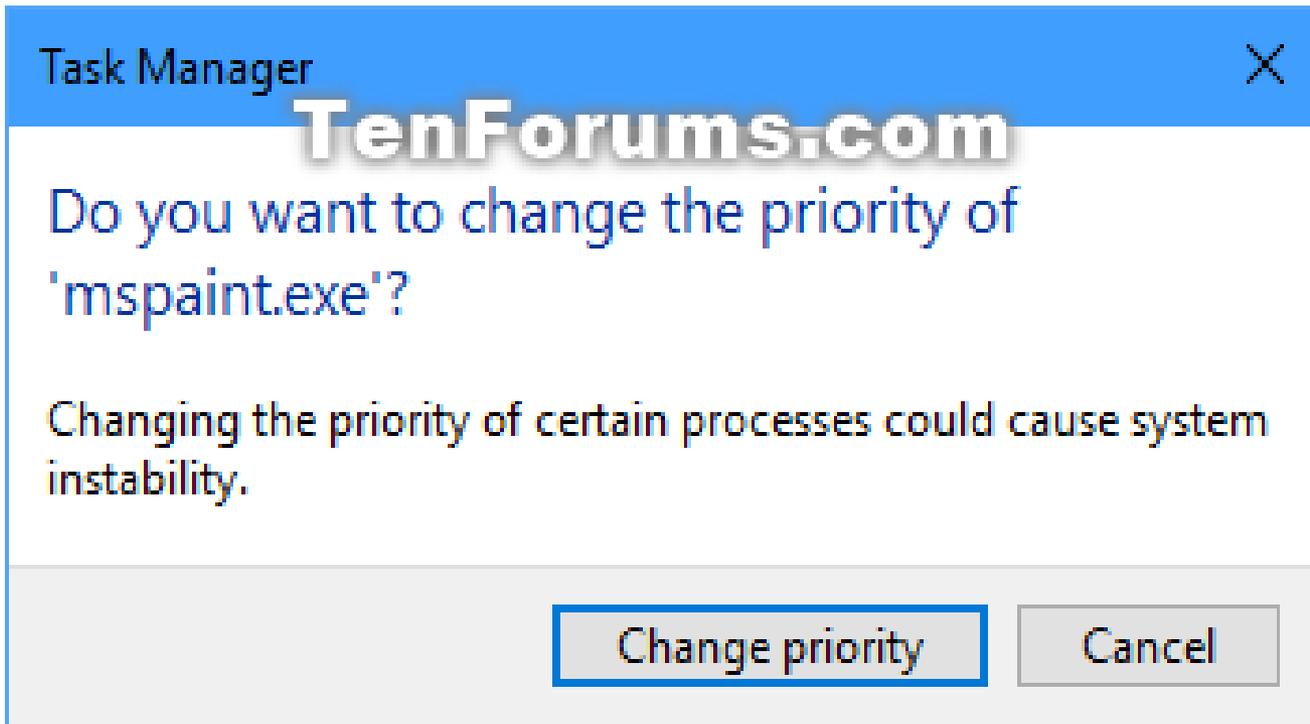
2

3

4. Click on

Name	Base priority	PID	Status	User name	CPU	Memory (p...	Description
MsMpEng.exe	Normal	4012	Running	SYSTEM	00	28,984 K	Antimalware Service Executable
mspaint.exe	Normal	13972	Running	Brink	00	8,000 K	Paint
NVDisplay.Co...		88	Running	SYSTEM	00	2,552 K	NVIDIA Container
NVDisplay.Co...		24	Running	SYSTEM	00	9,296 K	NVIDIA Container
NvTelo...				NETWORK SERVICE	00	2,876 K	NVIDIA Container
Office...				TEM	00	33,552 K	Microsoft Office Click-to-Run (SixS)
RealSenseDCM				TEM	00	17,860 K	Intel(R) RealSense(TM) Depth Camera Manager Service
RealSenseInfo					00	2,716 K	Intel(R) RealSense(TM) SDK Info Server
RemindersSen					00	1,588 K	Reminders WinRT OOP Server
RuntimeBroke				k	00	4,856 K	Runtime Broker
RuntimeBroke				k	00	5,156 K	Runtime Broker
RuntimeBroke				k	00	836 K	Runtime Broker
RuntimeBroke		156	Running	Brink	00	1,776 K	Runtime Broker
RuntimeBroke		24	Running	Brink	00	3,572 K	Runtime Broker
RuntimeBroke		64	Running	Brink	00	1,560 K	Runtime Broker
RuntimeBroke		40	Running	Brink	00	1,256 K	Runtime Broker

End task



Task Manager



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Do you want to change the priority of  
'mspaint.exe'?

Changing the priority of certain processes could cause system  
instability.

Change priority

Cancel

# Command Prompt – Admin

- ▶ WIN+X > A = Opens Admin level prompt
- ▶ (type) START "" /PriorityLevelName "Full path of Application File"



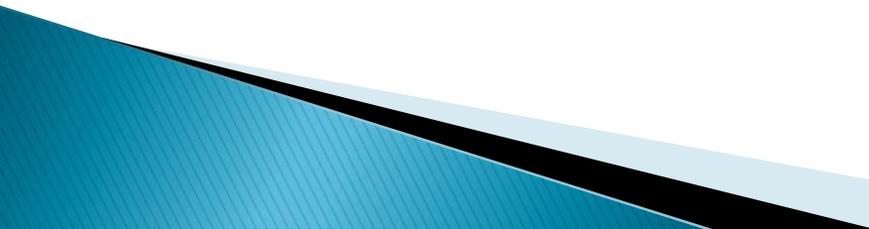
```
C:\> Command Prompt
Microsoft Windows [Version 10.0.16241.1001]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Brink>start "" /AboveNormal "C:\Windows\System32\mspaint.exe"

C:\Users\Brink>
```

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# Shortcut

- ▶ Shortcuts are a little different than commands in that they *invoke* rather than command.
  - ▶ We must modify or create a shortcut to invoke the Command Processor to start our process at a set priority.
  - ▶ After invoking and commanding, we need to close the Command Processor to regain some resources.
- 

# Shortcut

- ▶ Invocation

cmd /c START "" /PriorityLevelName "Full Path of Application File"

- ▶ Insert (replace) in

RCLICK Shortcut > Properties

Shortcut TAB

Start In >cmd /c START "" /PriorityLevelName "Full Path of Application File"

LCLICK Apply

# WARNING

It is **NOT RECOMMENDED** to set your process to **REALTIME** since it could (most probably) lock your system into that process until it truly goes idle. You will not get a response from keyboard or mouse.

[This is how real spooks start an erase or reformat that average Joe can not stop]

