

STOP INTERRUPTING



ME!!!!!!!

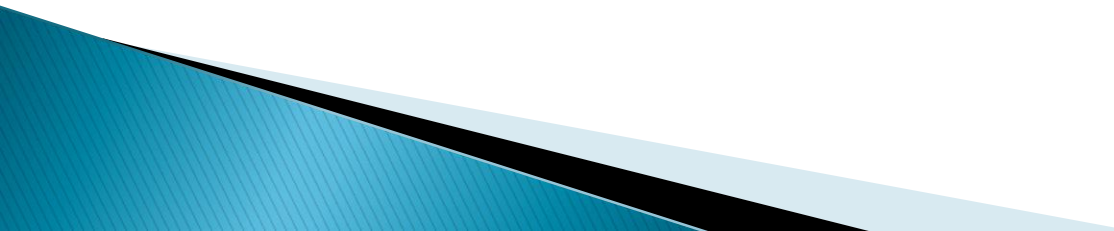
STOP INTERRUPTING ME OR HOW TO SET PRIORITY FOR YOUR PROCESS (IN WINDOWS 10)

Realtime
High

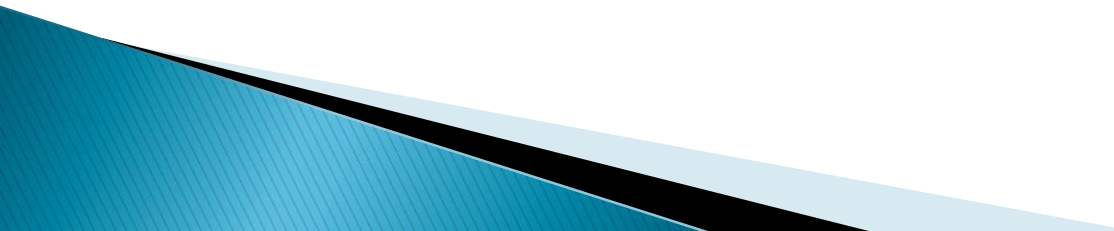
Above Normal
Normal

Below Normal
Low

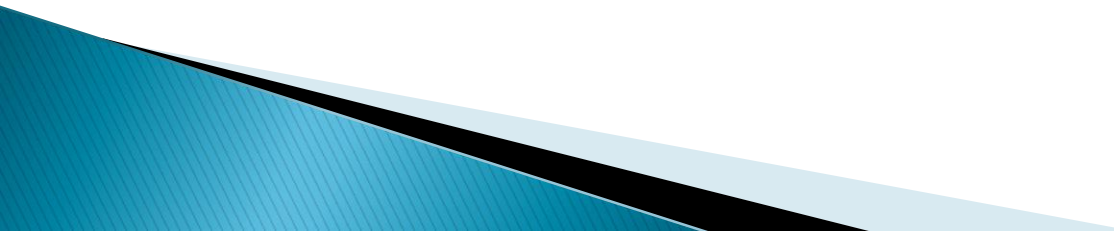
Default **HIGH** Priorities

- ▶ 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
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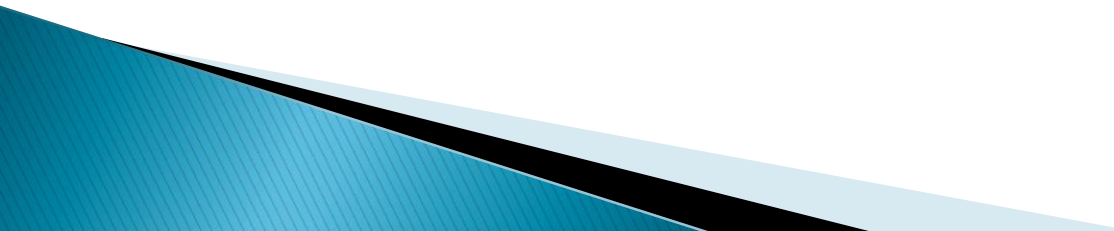
Default **Normal** Priorities

- ▶ 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



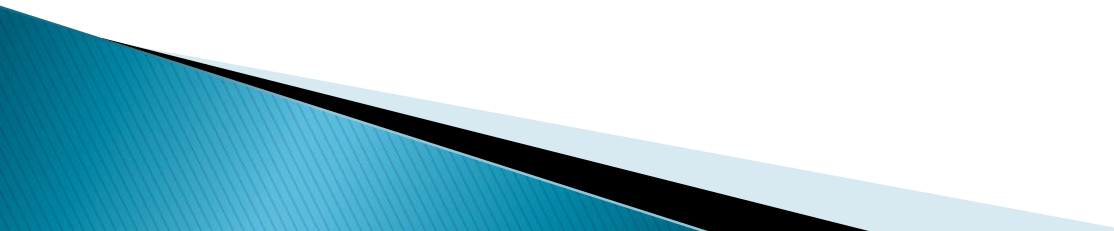
- ▶ Email
- ▶ Apple, Microsoft, Play stores (running or not)
- ▶ Adobe anything
- ▶ Anti-virus anything (Windows Defender worst)
- ▶ Cloud anything
- ▶ Most Microsoft, Alphabet, Apple, etc. processes that are constantly sending info.



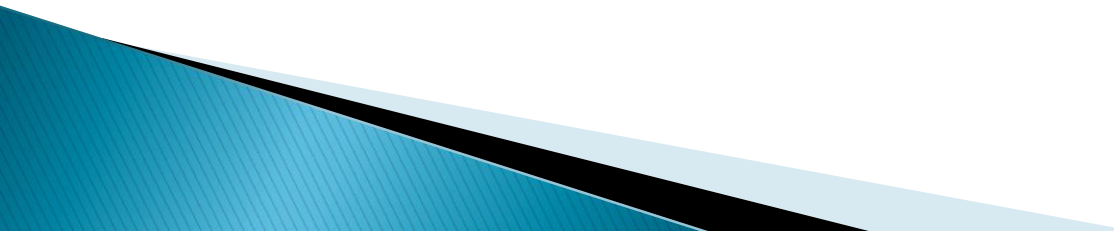
Turning Off the Big Four

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

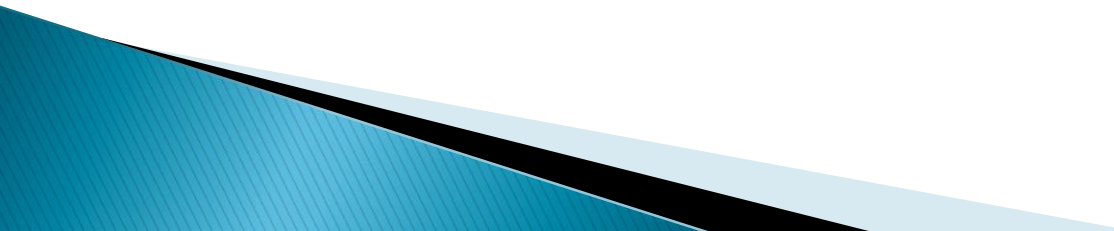
- ▶ CTRL+LSHIFT+ESC = Task Manager
- ▶ CTRL+ALT+DEL = System screen > Task Manager

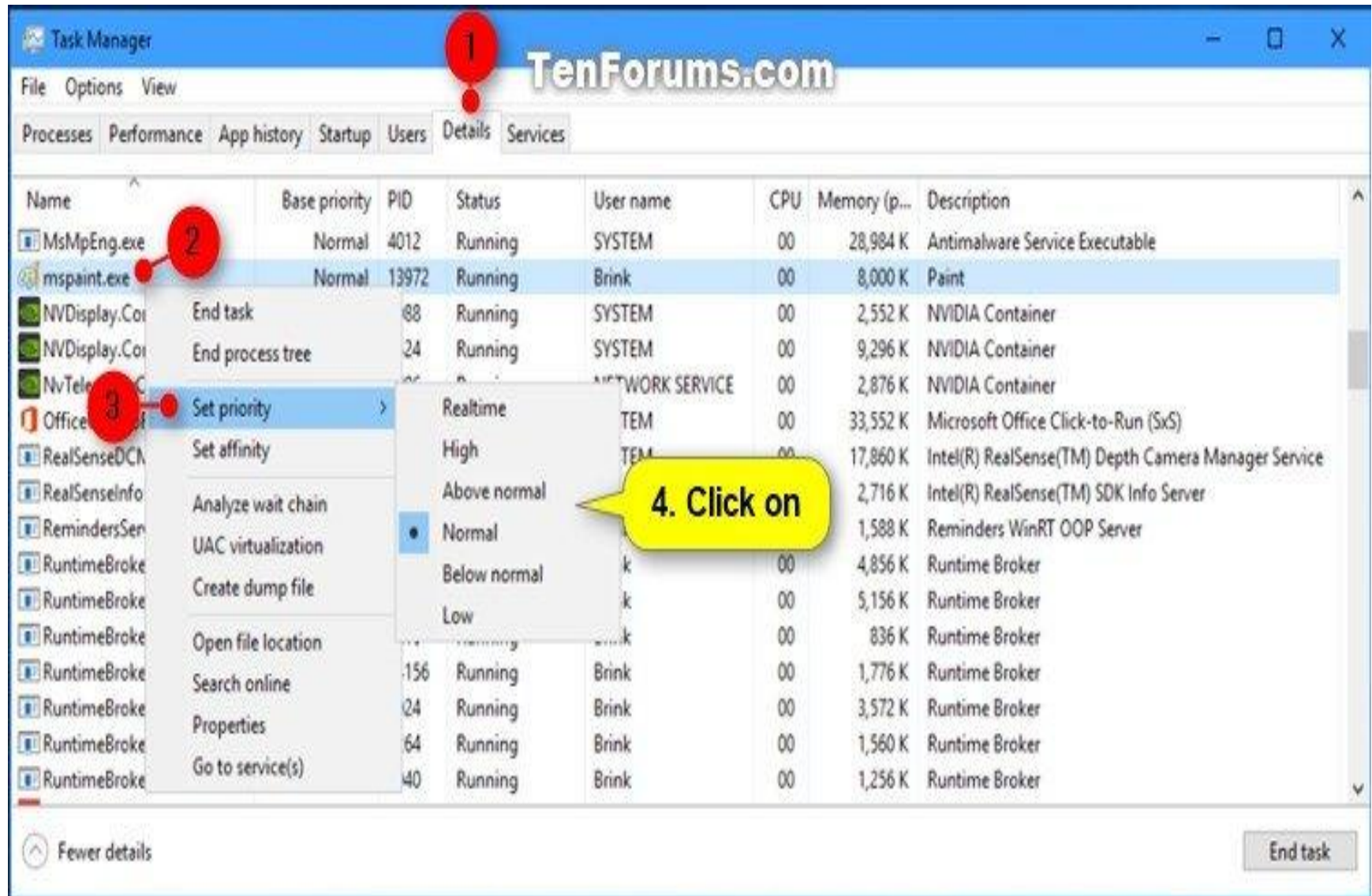
Name	PID	Status	User name	CPU	Memory (active private working set)	UAC virtualization
System Idle Process	0	Running	SYSTEM	99	8 K	
Taskmgr.exe	11032	Running	lccEngineer_2	01	25,104 K	Not allowed
svchost.exe	3900	Running	LOCAL SERVICE	00	13,048 K	Not allowed
csrss.exe	7860	Running	SYSTEM	00	1,388 K	Not 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	lccEngineer_2	00	28,836 K	Disabled
SearchIndexer.exe	6912	Running	SYSTEM	00	23,028 K	Not allowed
ctfmon.exe	6576	Running	lccEngineer_2	00	2,884 K	Disabled
svchost.exe	2768	Running	lccEngineer_2	00	6,608 K	Disabled
IntuitUpdateService.exe	8940	Running	SYSTEM	00	19,148 K	Not allowed
LBGovernor.exe	10948	Running	lccEngineer_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	lccEngineer_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	lccEngineer_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
WmiPrvSE.exe	1952	Running	NETWORK SERVICE	00	1,896 K	Not allowed
svchost.exe	5556	Running	SYSTEM	00	1,312 K	Not allowed
WmiPrvSE.exe	10544	Running	NETWORK SERVICE	00	1,556 K	Not allowed
svchost.exe	1688	Running	LOCAL SERVICE	00	4,512 K	Not allowed
services.exe	912	Running	SYSTEM	00	5,200 K	Not allowed

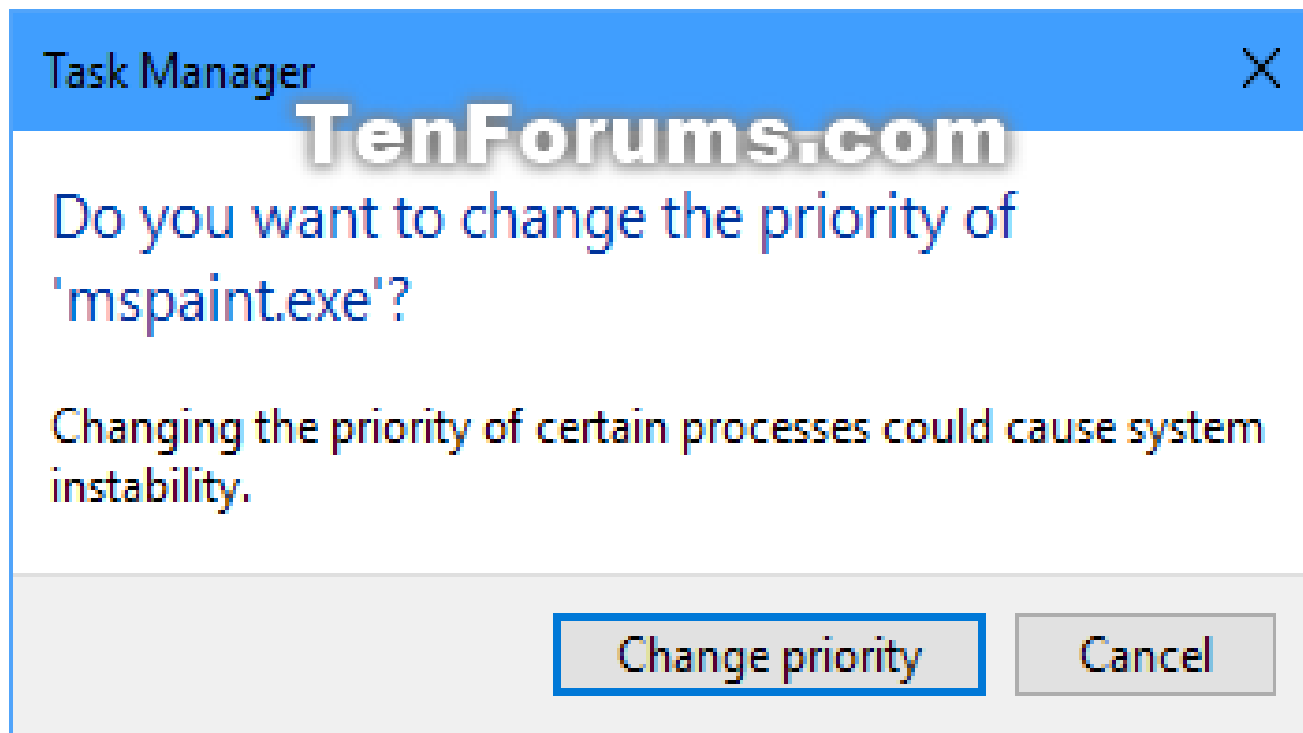
Task Manager -> Detail Tab

- ▶ “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.







Command Prompt – Admin

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



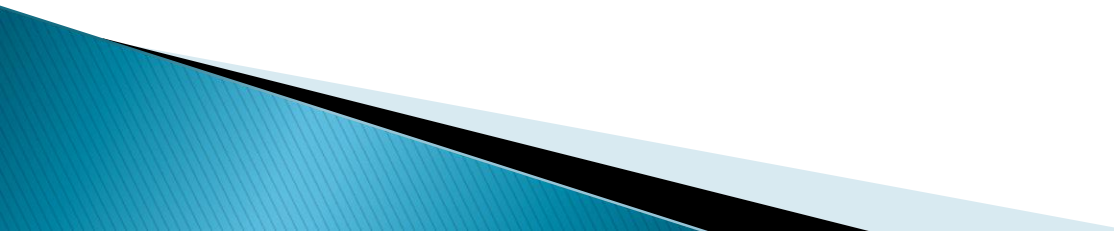
```
C:\> Command Prompt
Microsoft Windows [Version 10.0.16241.1001]
(c) 2017 Microsoft Corporation. All rights reserved.

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

C:\Users\Brink>
```

TenForums.com

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]

