## CONCLUSION

Your system appears to be having trouble handling real-time audio and other tasks. You are likely to experience buffer underruns appearing as drop outs, clicks or pops. One or more DPC routines that belong to a driver running in your system appear to be executing for too long. At least one detected problem appears to be network related. In case you are using a WLAN adapter, try disabling it to get better results. One problem may be related to power management, disable CPU throttling settings in Control Panel and BIOS setup. Check for BIOS updates.

LatencyMon has been analyzing your system for 0:18:19 (h:mm:ss) on all processors.

## SYSTEM INFORMATION

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|---|---|
| Computer name: | BRUCE-ASUSU36 |
| OS version: | Windows 10 , 10.0, build: 17763 (x64) |
| Hardware: | U36SG, ASUSTeK Computer Inc. |
| CPU: | GenuineIntel Intel(R) Core(TM) i5-2450M CPU @ 2.50GHz |
| Logical processors: | 4 |
| Processor groups: | 1 |
| RAM: | 8097 MB total |

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CPU SPEED

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Reported CPU speed: 2494 MHz

Note: reported execution times may be calculated based on a fixed reported CPU speed. Disable variable speed settings like Intel Speed Step and AMD Cool N Quiet in the BIOS setup for more accurate results.

WARNING: the CPU speed that was measured is only a fraction of the CPU speed reported. Your CPUs may be throttled back due to variable speed settings and thermal issues. It is suggested that you run a utility which reports your actual CPU frequency and temperature.

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MEASURED INTERRUPT TO USER PROCESS LATENCIES

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The interrupt to process latency reflects the measured interval that a usermode process needed to respond to a hardware request from the moment the interrupt service routine started execution. This includes the scheduling and execution of a DPC routine, the signaling of an event and the waking up of a usermode thread from an idle wait state in response to that event.

Highest measured interrupt to process latency (µs): 9295.20

Average measured interrupt to process latency (µs): 5.473976

Highest measured interrupt to DPC latency (µs): 9280.40

Average measured interrupt to DPC latency (µs): 1.529738

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REPORTED ISRs

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Interrupt service routines are routines installed by the OS and device drivers that execute in response to a hardware interrupt signal.

Highest ISR routine execution time (µs): 226.878107

Driver with highest ISR routine execution time: dxgkrnl.sys - DirectX Graphics Kernel, Microsoft Corporation

Highest reported total ISR routine time (%): 0.050219

Driver with highest ISR total time: USBPORT.SYS - USB 1.1 & 2.0 Port Driver, Microsoft Corporation

Total time spent in ISRs (%) 0.063685

ISR count (execution time <250 µs): 399850

ISR count (execution time 250-500 µs): 0

ISR count (execution time 500-999 µs): 0

ISR count (execution time 1000-1999 µs): 0

ISR count (execution time 2000-3999 µs): 0

ISR count (execution time >=4000 µs): 0

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REPORTED DPCs

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DPC routines are part of the interrupt servicing dispatch mechanism and disable the possibility for a process to utilize the CPU while it is interrupted until the DPC has finished execution.

Highest DPC routine execution time (µs): 9328.688452

Driver with highest DPC routine execution time: ndis.sys - Network Driver Interface Specification (NDIS), Microsoft Corporation

Highest reported total DPC routine time (%): 0.163122

Driver with highest DPC total execution time: USBPORT.SYS - USB 1.1 & 2.0 Port Driver, Microsoft Corporation

Total time spent in DPCs (%) 0.451673

DPC count (execution time <250 µs): 2687839

DPC count (execution time 250-500 µs): 0

DPC count (execution time 500-999 µs): 2179

DPC count (execution time 1000-1999 µs): 239

DPC count (execution time 2000-3999 µs): 64

DPC count (execution time >=4000 µs): 0

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REPORTED HARD PAGEFAULTS

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Hard pagefaults are events that get triggered by making use of virtual memory that is not resident in RAM but backed by a memory mapped file on disk. The process of resolving the hard pagefault requires reading in the memory from disk while the process is interrupted and blocked from execution.

NOTE: some processes were hit by hard pagefaults. If these were programs producing audio, they are likely to interrupt the audio stream resulting in dropouts, clicks and pops. Check the Processes tab to see which programs were hit.

Process with highest pagefault count: chrome.exe

Total number of hard pagefaults 8330

Hard pagefault count of hardest hit process: 2330

Number of processes hit: 162

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PER CPU DATA

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CPU 0 Interrupt cycle time (s): 40.031487

CPU 0 ISR highest execution time (µs): 226.878107

CPU 0 ISR total execution time (s): 2.758656

CPU 0 ISR count: 395050

CPU 0 DPC highest execution time (µs): 9328.688452

CPU 0 DPC total execution time (s): 18.126127

CPU 0 DPC count: 2590536

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CPU 1 Interrupt cycle time (s): 15.618371

CPU 1 ISR highest execution time (µs): 161.037289

CPU 1 ISR total execution time (s): 0.040437

CPU 1 ISR count: 4688

CPU 1 DPC highest execution time (µs): 4804.564956

CPU 1 DPC total execution time (s): 1.060079

CPU 1 DPC count: 44456

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CPU 2 Interrupt cycle time (s): 10.350409

CPU 2 ISR highest execution time (µs): 20.542502

CPU 2 ISR total execution time (s): 0.000595

CPU 2 ISR count: 73

CPU 2 DPC highest execution time (µs): 585.977947

CPU 2 DPC total execution time (s): 0.483867

CPU 2 DPC count: 40582

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CPU 3 Interrupt cycle time (s): 12.811302

CPU 3 ISR highest execution time (µs): 19.977947

CPU 3 ISR total execution time (s): 0.000352

CPU 3 ISR count: 39

CPU 3 DPC highest execution time (µs): 1475.046512

CPU 3 DPC total execution time (s): 0.188581

CPU 3 DPC count: 14763

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