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## CONCLUSION

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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 0:13:15 (h:mm:ss) on all processors.

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## 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
Measured CPU speed:	13 MHz (approx.)

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 ( $\mu$ s): 22185.20

Average measured interrupt to process latency ( $\mu$ s): 17.867951

Highest measured interrupt to DPC latency ( $\mu$ s): 22168.70

Average measured interrupt to DPC latency ( $\mu$ s): 4.546608

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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 ( $\mu$ s): 95.338813

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

Highest reported total ISR routine time (%): 0.021710

Driver with highest ISR total time: storport.sys - Microsoft Storage Port Driver, Microsoft Corporation

Total time spent in ISRs (%) 0.026801

ISR count (execution time <250  $\mu$ s): 74252

ISR count (execution time 250-500  $\mu$ s): 0

ISR count (execution time 500-999  $\mu$ s): 0

ISR count (execution time 1000-1999  $\mu$ s): 0

ISR count (execution time 2000-3999  $\mu$ s): 0

ISR count (execution time  $\geq$ 4000  $\mu$ s): 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 ( $\mu$ s): 23189.880914

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

Highest reported total DPC routine time (%): 0.081553

Driver with highest DPC total execution time: Wdf01000.sys - Kernel Mode Driver Framework Runtime, Microsoft Corporation

Total time spent in DPCs (%) 0.310654

DPC count (execution time <250  $\mu$ s): 660787

DPC count (execution time 250-500  $\mu$ s): 0

DPC count (execution time 500-999  $\mu$ s): 2262

DPC count (execution time 1000-1999  $\mu$ s): 146

DPC count (execution time 2000-3999  $\mu$ s): 38

DPC count (execution time  $\geq$ 4000  $\mu$ s): 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.

Process with highest pagefault count: none

Total number of hard pagefaults 0

Hard pagefault count of hardest hit process: 0

Highest hard pagefault resolution time ( $\mu$ s): 0.0

Total time spent in hard pagefaults (%): 0.0

Number of processes hit: 0

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#### PER CPU DATA

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CPU 0 Interrupt cycle time (s): 18.115109

CPU 0 ISR highest execution time ( $\mu$ s): 95.338813

CPU 0 ISR total execution time (s): 0.844542

CPU 0 ISR count: 73556  
CPU 0 DPC highest execution time (μs): 23189.880914  
CPU 0 DPC total execution time (s): 8.151670  
CPU 0 DPC count: 569036

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CPU 1 Interrupt cycle time (s): 3.991986  
CPU 1 ISR highest execution time (μs): 25.304330  
CPU 1 ISR total execution time (s): 0.006890  
CPU 1 ISR count: 636  
CPU 1 DPC highest execution time (μs): 3587.144346  
CPU 1 DPC total execution time (s): 0.471633  
CPU 1 DPC count: 20087

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CPU 2 Interrupt cycle time (s): 5.790766  
CPU 2 ISR highest execution time (μs): 24.483561  
CPU 2 ISR total execution time (s): 0.000975  
CPU 2 ISR count: 60  
CPU 2 DPC highest execution time (μs): 2222.358460  
CPU 2 DPC total execution time (s): 0.824474

CPU 2 DPC count: 52741

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CPU 3 Interrupt cycle time (s): 4.049652

CPU 3 ISR highest execution time ( $\mu$ s): 0.0

CPU 3 ISR total execution time (s): 0.0

CPU 3 ISR count: 0

CPU 3 DPC highest execution time ( $\mu$ s): 1997.864876

CPU 3 DPC total execution time (s): 0.432761

CPU 3 DPC count: 21376

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