
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 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 0:15:23 (h:mm:ss) on all processors.

SYSTEM INFORMATION

Computer name:	PC-STEFFEN
OS version:	Windows 10 , 10.0, build: 19041 (x64)
Hardware: (MS-7B86)	MS-7B86, Micro-Star International Co., Ltd, B450 GAMING PLUS
CPU:	AuthenticAMD AMD Ryzen 5 2600 Six-Core Processor
Logical processors:	12
Processor groups:	1
RAM:	16335 MB total

CPU SPEED

Reported CPU speed:	340 MHz
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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.

MEASURED INTERRUPT TO USER PROCESS LATENCIES

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 (μ s): 58438,0

Average measured interrupt to process latency (μ s): 6,563381

Highest measured interrupt to DPC latency (μ s): 58433,30

Average measured interrupt to DPC latency (μ s): 2,869522

REPORTED ISRs

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 (μ s): 100,110

Driver with highest ISR routine execution time: HDAudBus.sys - High Definition Audio Bus Driver, Microsoft Corporation

Highest reported total ISR routine time (%): 0,003777

Driver with highest ISR total time: Wdf01000.sys - Kernelmodustreiber-Frameworklaufzeit, Microsoft Corporation

Total time spent in ISRs (%) 0,004196

ISR count (execution time <250 µs): 432644

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

REPORTED DPCs

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): 978,160

Driver with highest DPC routine execution time: Wdf01000.sys - Kernelmodustreiber-Frameworklaufzeit, Microsoft Corporation

Highest reported total DPC routine time (%): 0,135671

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

Total time spent in DPCs (%) 0,252262

DPC count (execution time <250 µs):	2216704
DPC count (execution time 250-500 µs):	0
DPC count (execution time 500-999 µs):	2903
DPC count (execution time 1000-1999 µs):	0
DPC count (execution time 2000-3999 µs):	0
DPC count (execution time >=4000 µs):	0

REPORTED HARD PAGEFAULTS

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:	winword.exe
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Total number of hard pagefaults	42631
Hard pagefault count of hardest hit process:	5633
Number of processes hit:	97

PER CPU DATA

CPU 0 Interrupt cycle time (s):	44,602555
CPU 0 ISR highest execution time (μs):	92,490
CPU 0 ISR total execution time (s):	0,183748
CPU 0 ISR count:	151841
CPU 0 DPC highest execution time (μs):	978,160
CPU 0 DPC total execution time (s):	19,106629
CPU 0 DPC count:	1708025

CPU 1 Interrupt cycle time (s):	34,035299
CPU 1 ISR highest execution time (μs):	100,110
CPU 1 ISR total execution time (s):	0,121891
CPU 1 ISR count:	97521
CPU 1 DPC highest execution time (μs):	892,710
CPU 1 DPC total execution time (s):	7,449619
CPU 1 DPC count:	338556

CPU 2 Interrupt cycle time (s):	3,605502
CPU 2 ISR highest execution time (μs):	17,570
CPU 2 ISR total execution time (s):	0,003199
CPU 2 ISR count:	1958
CPU 2 DPC highest execution time (μs):	262,160
CPU 2 DPC total execution time (s):	0,121631
CPU 2 DPC count:	16537

CPU 3 Interrupt cycle time (s):	3,654602
CPU 3 ISR highest execution time (μs):	3,980
CPU 3 ISR total execution time (s):	0,000235
CPU 3 ISR count:	119
CPU 3 DPC highest execution time (μs):	165,40
CPU 3 DPC total execution time (s):	0,176007

CPU 3 DPC count: 20874

CPU 4 Interrupt cycle time (s): 3,659301

CPU 4 ISR highest execution time (μs): 4,070

CPU 4 ISR total execution time (s): 0,000239

CPU 4 ISR count: 152

CPU 4 DPC highest execution time (μs): 178,740

CPU 4 DPC total execution time (s): 0,157284

CPU 4 DPC count: 20624

CPU 5 Interrupt cycle time (s): 2,181127

CPU 5 ISR highest execution time (μs): 3,0

CPU 5 ISR total execution time (s): 0,000019

CPU 5 ISR count: 16

CPU 5 DPC highest execution time (μs): 260,470

CPU 5 DPC total execution time (s): 0,037102

CPU 5 DPC count: 4417

CPU 6 Interrupt cycle time (s): 3,418517

CPU 6 ISR highest execution time (μs): 3,340

CPU 6 ISR total execution time (s): 0,000074

CPU 6 ISR count: 32

CPU 6 DPC highest execution time (μs): 204,430

CPU 6 DPC total execution time (s): 0,099693

CPU 6 DPC count: 15616

CPU 7 Interrupt cycle time (s): 2,657497

CPU 7 ISR highest execution time (μs): 5,530

CPU 7 ISR total execution time (s): 0,000046

CPU 7 ISR count:	18
CPU 7 DPC highest execution time (µs):	141,670
CPU 7 DPC total execution time (s):	0,034312
CPU 7 DPC count:	5537

CPU 8 Interrupt cycle time (s):	9,947439
CPU 8 ISR highest execution time (µs):	20,690
CPU 8 ISR total execution time (s):	0,114622
CPU 8 ISR count:	139700
CPU 8 DPC highest execution time (µs):	265,670
CPU 8 DPC total execution time (s):	0,410323
CPU 8 DPC count:	49824

CPU 9 Interrupt cycle time (s):	2,930940
CPU 9 ISR highest execution time (µs):	14,320
CPU 9 ISR total execution time (s):	0,004301
CPU 9 ISR count:	3814
CPU 9 DPC highest execution time (µs):	256,390
CPU 9 DPC total execution time (s):	0,047143
CPU 9 DPC count:	6257

CPU 10 Interrupt cycle time (s):	5,354668
CPU 10 ISR highest execution time (µs):	23,770
CPU 10 ISR total execution time (s):	0,021144
CPU 10 ISR count:	22704
CPU 10 DPC highest execution time (µs):	178,770
CPU 10 DPC total execution time (s):	0,218992
CPU 10 DPC count:	24484

CPU 11 Interrupt cycle time (s): 3,594322
CPU 11 ISR highest execution time (µs): 8,650
CPU 11 ISR total execution time (s): 0,015559
CPU 11 ISR count: 14769
CPU 11 DPC highest execution time (µs): 254,840
CPU 11 DPC total execution time (s): 0,099783
CPU 11 DPC count: 8856

