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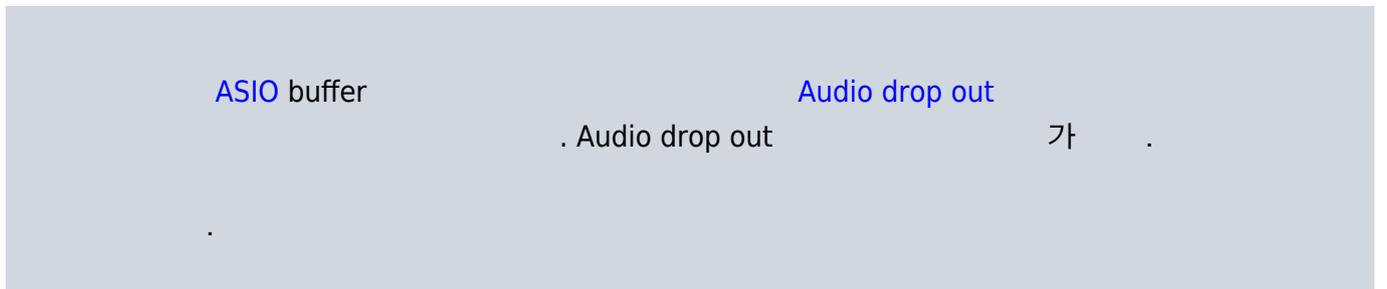
# Audio Drop out



Cubase ASIO 가 가  
 , CPU , ASIO buffer Audio Drop out

Audio Drop out

Audio Drop out , 가 VSTi Audio Drop out 1)  
 , Audio Drop out /  
 , F12 Audio Performance Audio



## ASIO performance meter

: F12

Cubase 12 , ASIO



## Realtime

( , **VSTi** ) <sup>2)</sup>

**Peak** , **VSTi**

Audio Drop out 가 , Audio Drop out 가

<sup>3)</sup>

**Peak**가 Audio Drop out 가

가 , 가 ,

## ASIO Guard

( **ASIO-Guard** )

ASIO-Guard , **MIDI** **VSTi**

CPU CPU **DAW**

가 CPU , Realtime, CPU

ASIO-Guard , **VSTi** ) 가 (

ASIO-Guard

가

Audio Drop out

Audio Drop out

ASIO-Guard

Studio Setup

Audio System

ASIO-Guard

가

VSTi

ASIO-Guard

ASIO-Guard

가

가

ASIO-Guard

## Peak

가

Peak

Peak

ASIO-Guard  
Audio Drop

Peak 가  
, Realtime, ASIO-Guard

Peak  
Audio Drop out

Peak

가

Peak

가

가

Peak

가

가

Peak  
ASIO

가

ASIO

가

Peak

가

DAW

, Realtime

ASIO-Guard 가

가

Peak

가

가

ASIO

ASIO

Peak

가

가

ASIO

## Disk cache

Peak

Audio Drop

out

가

Audio Drop out

Audio Export	Audio Drop out	<sup>4)</sup>	CPU	가
	Realtime Export	Export가		

# CPU ?

CPU  
 가 128 samples CPU 가 30% , 256 samples , CPU  
 15%  
 Audio drop out . CPU  
 64 samples , CPU 가 0% 가



256 samples , CPU 가  
 60-70%가 <sup>5)</sup>



Realtime Audio Drop out



(ASIO-Guard) Audio Drop out

100% CPU Audio drop out

6) 가 ASIO 가 Realtime( , VSTi ) Drop out , CPU ) L1, L2 /DMA<sup>7)</sup> . ASIO 256 samples .) CPU Audio drop out , 256 samples ASIO buffer Audio drop out 가 , . 256 samples 가 8) .

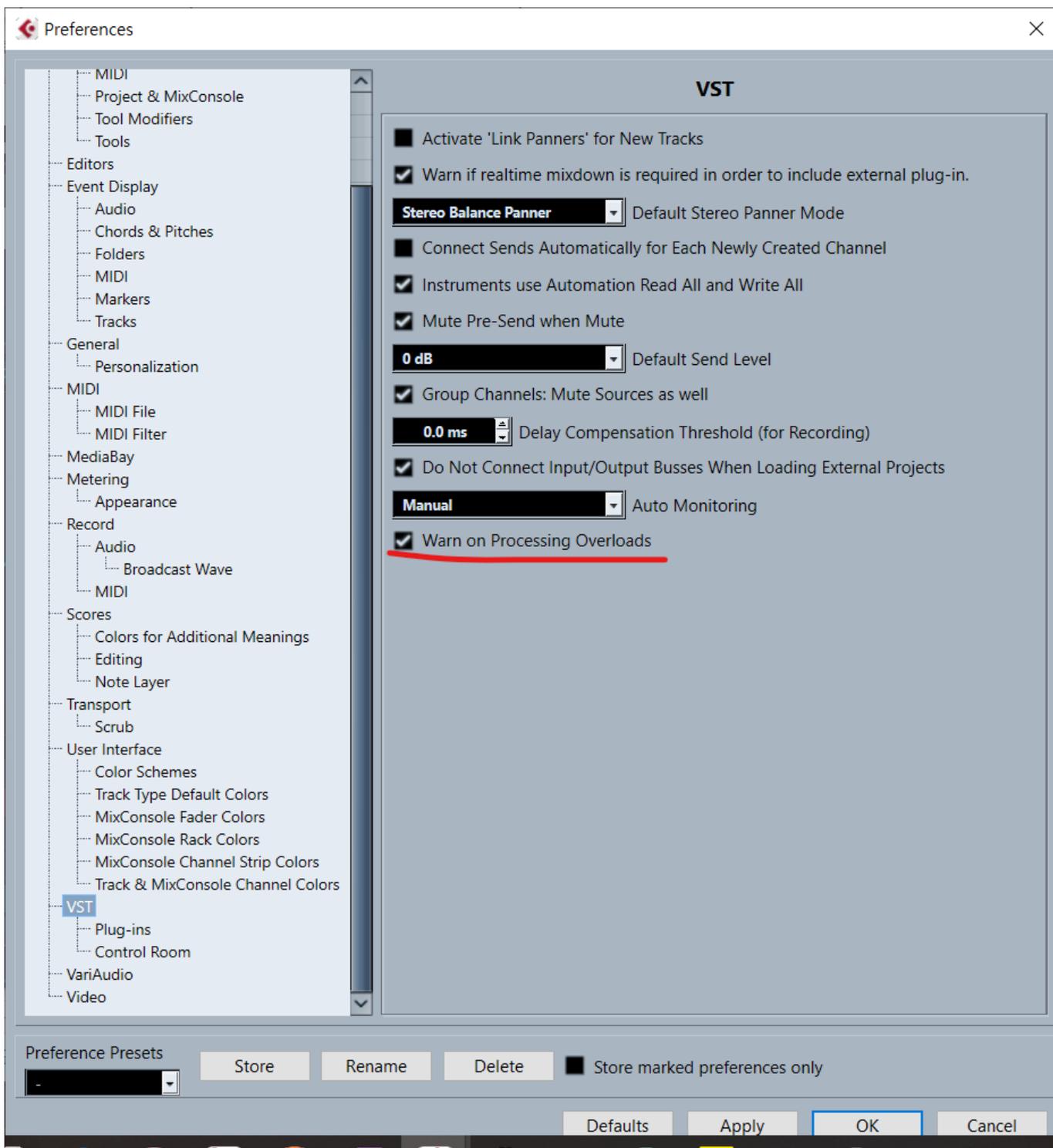
DAW ) 가 , 가 ( 가 )

## Warn on processing overload

, Realtime( , VSTi ) Audio Drop out , 가 , Audio drop out . drop out 가 , . Realtime Performance , 가

가 9),

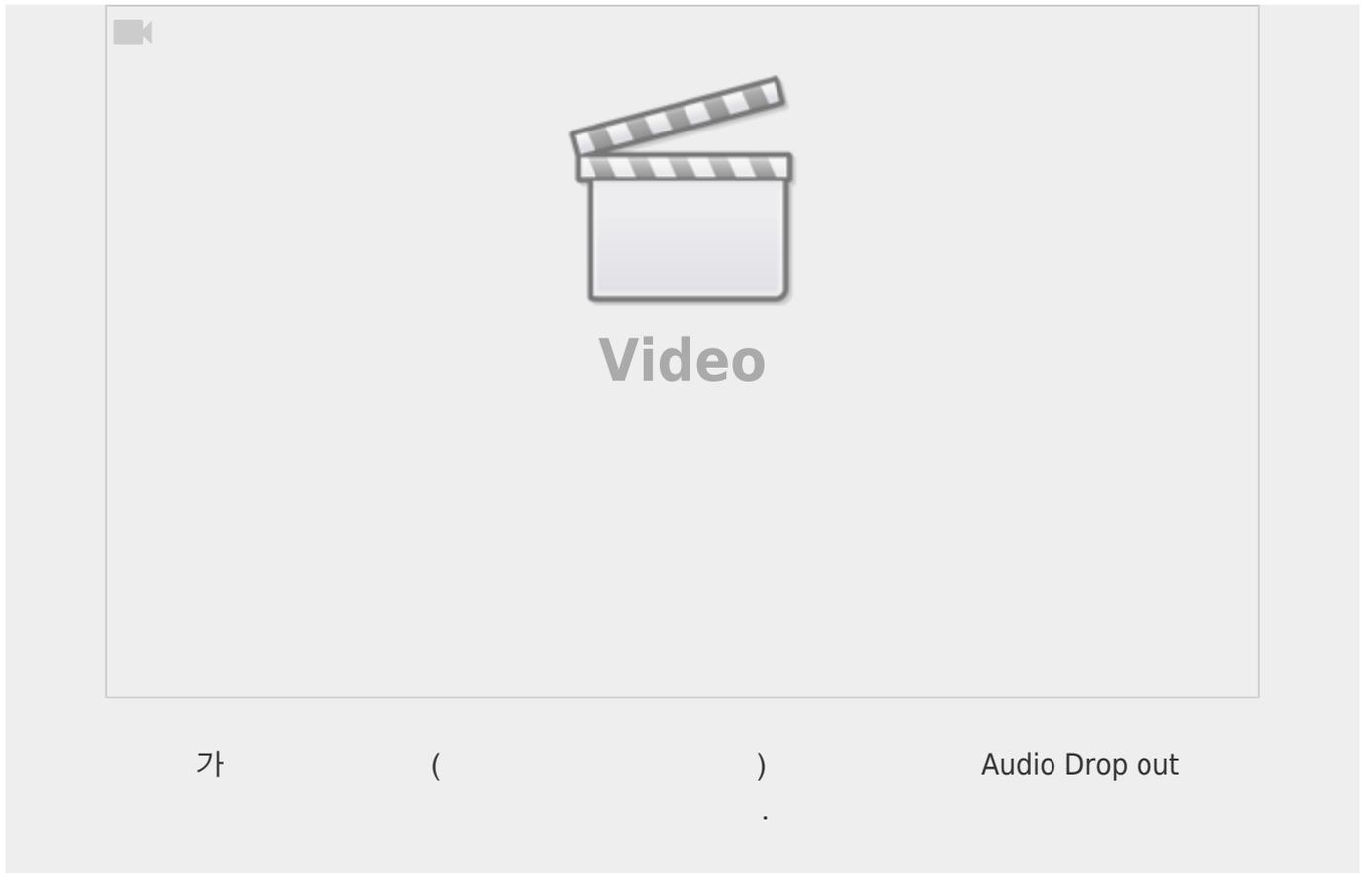
### Audio Drop out



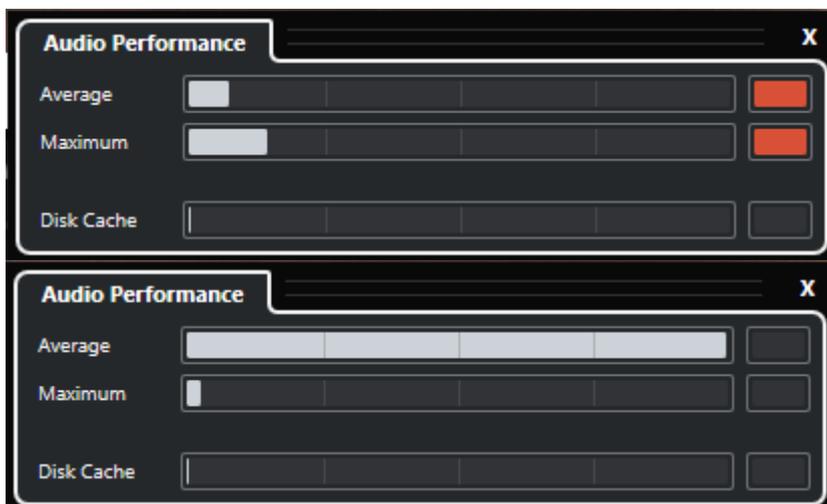
Audio Drop out

ASIO buffer

Buffer



- 1) Audio Drop out 가 , 가 .
- 2) 가 .
- 3) 가
- 4) .
- 5) Realtime export Audio drop out .
- 6) CPU 가 100% 가 ...



7)

Direct memory access, Cache [latency](#)

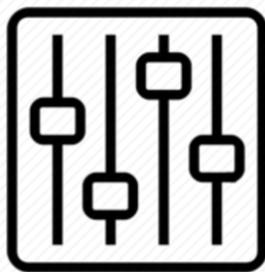
	L2 Setup	L2 Latency
Skylake (Client)	256 KB 4-Way	12 cycles
Skylake (Server)	1024 KB 16-Way	13 cycles
Sunny Cove (Client)	512 KB 8-Way	13 cycles
Willow Cove (Client)	1280 KB 20-Way	14 cycles
Golden Cove (Client)	1280 KB 10-Way	15 cycles
Raptor Lake P-Core (Client)	2048 KB 16-Way	16 cycles

Intel's L2 designs trend towards increased capacity, with slightly higher latency

8)

64 samples      Audio drop out

9)



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: (admin@homerecz.com)