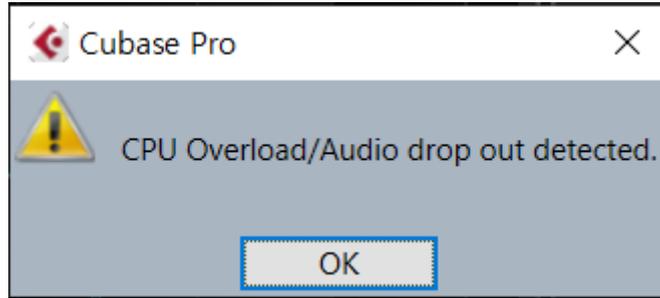




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- Audio Drop out** 5
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- Realtime 6
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- Peak 7
- Disk cache 7
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Audio Drop out



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

Audio Drop out

Audio Drop out

Audio Drop out

, 가

VSTi

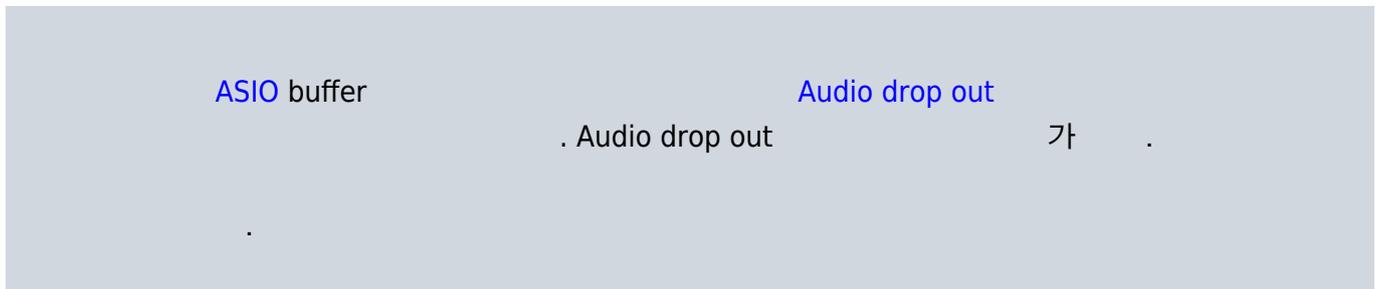
Audio Drop out ¹⁾

, **F12**

Audio Performance

Audio

Drop out



ASIO performance meter

: **F12**

Cubase 12

, ASIO



Realtime

(, **VSTi**) ²⁾

Peak , **VSTi**

Audio Drop out 가 , Audio Drop out 가

³⁾ **Peak**가 Audio Drop out 가

가 , 가 ,

ASIO Guard

(**ASIO-Guard**)

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

가 **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

MIDI

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	4)	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



60-70%가 256 samples , CPU 가 5)



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, L3 /DMA⁷⁾ . ASIO 256 samples .) CPU Audio drop out , 256 samples ASIO buffer Audio drop out 가 . 256 samples 가 8)

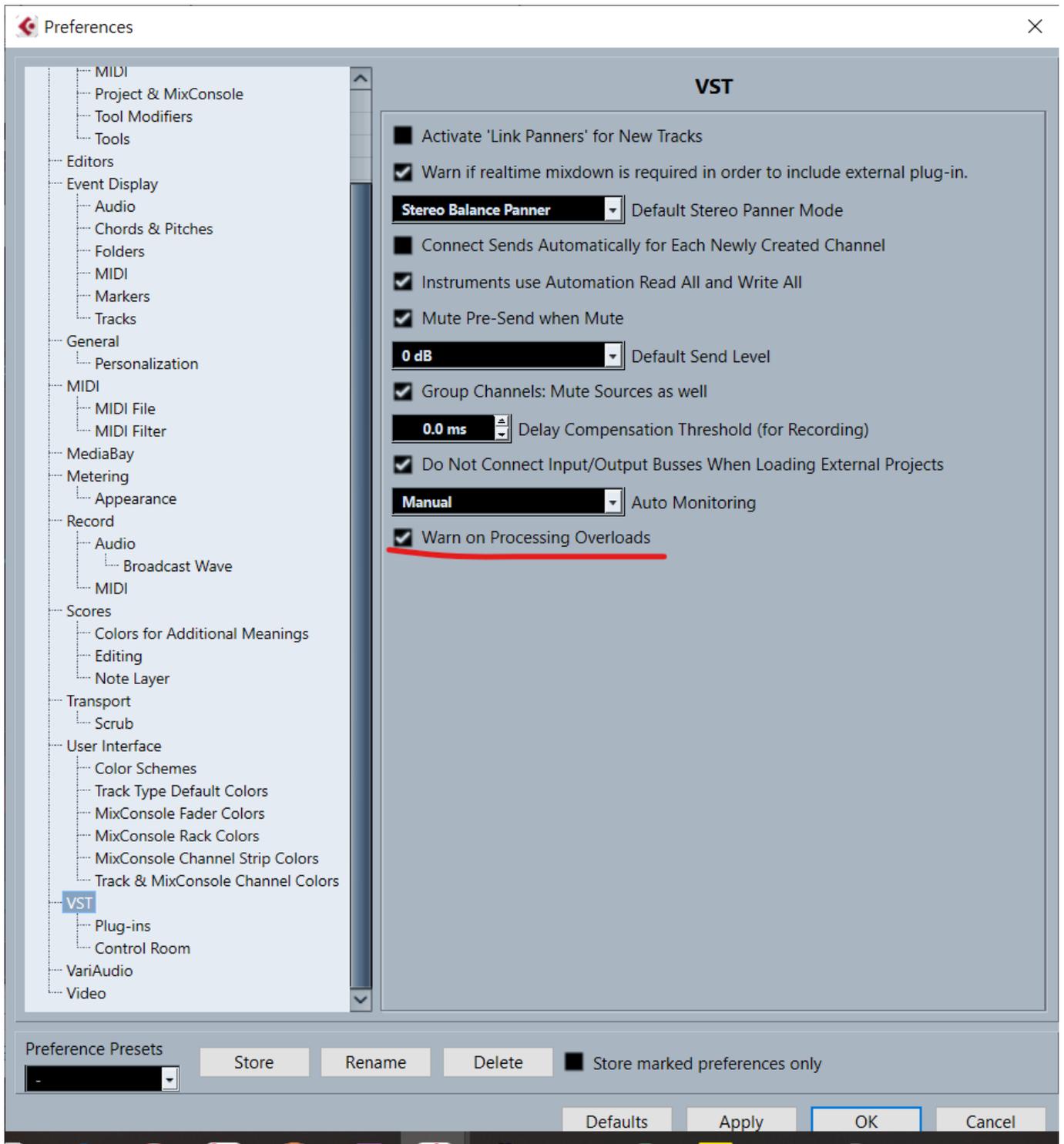
DAW 가 , 가 (가 가)

Warn on processing overload

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

가 9),

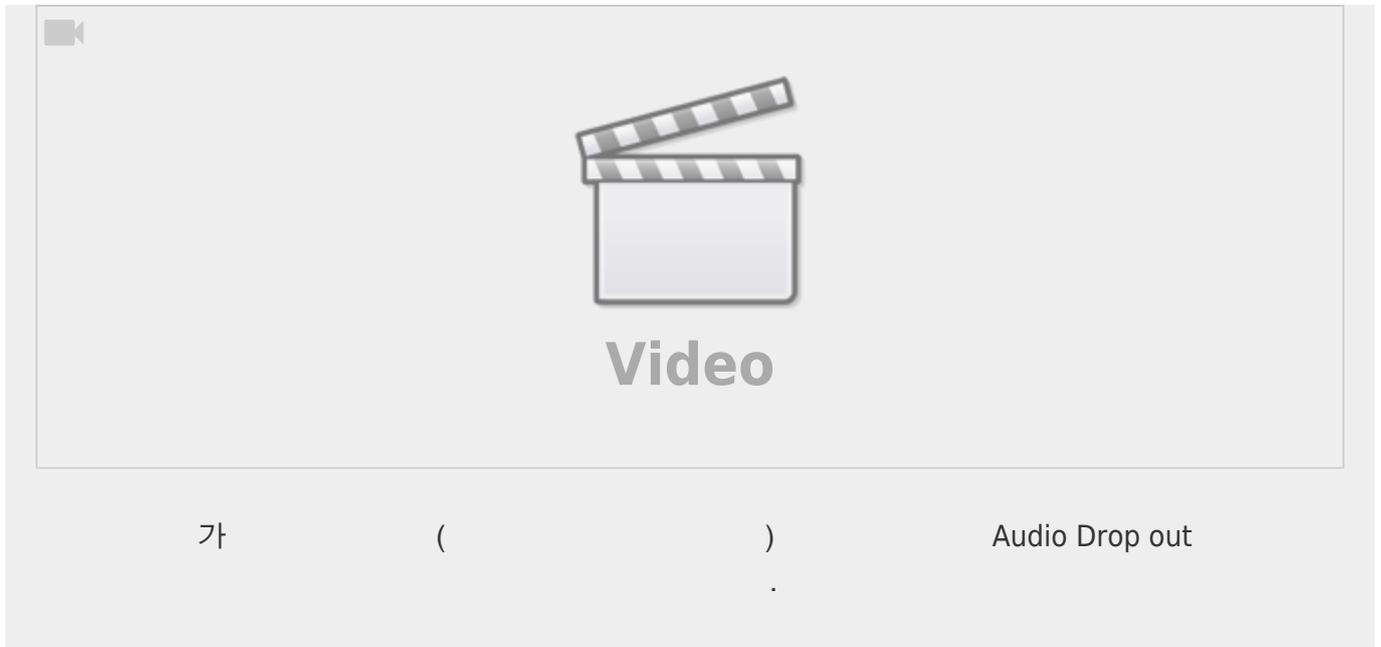
Audio Drop out



Audio Drop out

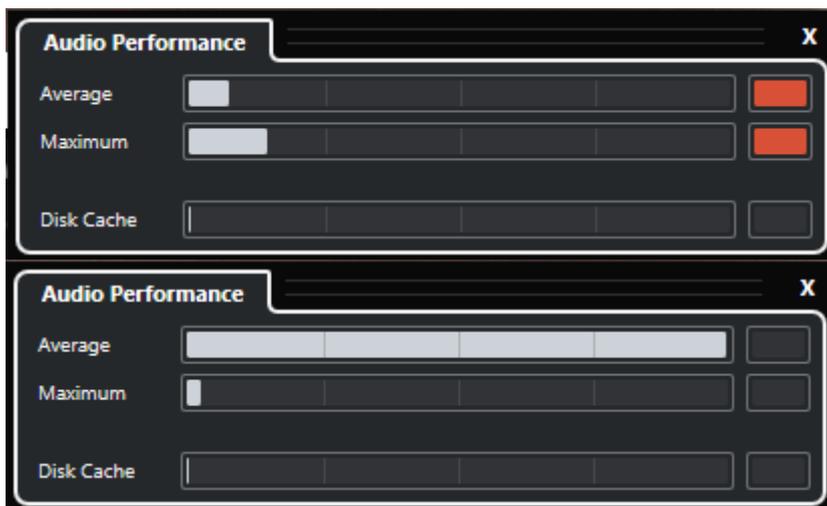
ASIO buffer

Buffer



ASIO

- 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

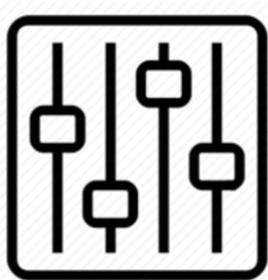
Intel's L2 designs trend towards increased capacity, with slightly higher latency

8)

64 samples Audio drop out

9)

,



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