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🛇 foobar2000 🐼

Lossy file (MP3¹) transfer to DSD256/512

AMR/iFi is always seeking to make music more enjoyable. We are firm believers of keeping the music file original. In this instance, we will make an exception: where lossy MP3 is already heavily compressed it is worth converting to DSD.

From our listening tials, converting MP3s to DSD256/512 takes the *digital harshness* out of the music and makes it more *analogue sounding*. We hope you enjoy reading this tutorial. You may just rediscover your lossy music collection!

Important: PLEASE go to the LAST PAGE and read the user notes first!

Setup Instructions

Step 1: Download ASIO-Proxy for Foobar (also runs under JRMC) Download and install this.

http://sourceforge.net/projects/sacddecoder/files/foo_dsd_asio/ or http://sourceforge.net/projects/sacddecoder/files/foo_dsd_asio/ASIOProxyInstall-0.7.1.2.zip/download

(this "Meta Driver" sits between the playback software [J-River] and actual ASIO Driver [iFi Driver])

Summary Files Reviews	Support Wiki	Tickets • Di	scussion Donate Admin	N
_ooking for the latest version? Dow	nload foo_input_s	acd-0.7.1.zip (6	i11.3 kB)	
Home / foo_dsd_asio				5
Name +	Modified +	Size +	Downloads / Week	
↑ Parent folder				
				-
ASIOProxyInstall-0.7.1.2.zip	2014-05-12	239.7 kB	171 🔛 🏾	U
ASIOProxyInstall-0.7.1.2.zip ASIOProxyInstall-0.6.5.zip	2014-05-12 2013-07-29	239.7 kB 149.3 kB	171 🔛	0
ASIOProxyInstall-0.7.1.2.zip ASIOProxyInstall-0.6.5.zip ASIOProxyInstall-0.6.4.zip	2014-05-12 2013-07-29 2013-05-06	239.7 kB 149.3 kB 144.2 kB	171 🖿 16 🔔 5	0 0 0

¹ Includes AAC, MP3 & WMA etc...

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Step 2: Start > Programs > iFi by AMR USB Audio Control Panel

Change the settings to this:

Status Buffer Settings Info USB Streaming Mode Extra Safe	~
USB Streaming Mode Extra Safe	~
Extra Safe	~
Asio Buffer Size	
8192 samples	\sim
WARNING: The selected ASIO buffer size is too small for the current USB streaming mode and the current sampling rate. To avoid audio distortions, yo should select a larger ASIO buffer size.	ы

Step 3: Foobar2K File > Preferences

Select "Output>Asio" then under "ASIO drivers" select "foo_dsd_asio"

Preferences: ASIO	? ×
···· Components	ASIO drivers
Keyboard Shortcuts Media Library Metworking	foo_dsd_asio iFi (by AMR) HD USB Audio JRiver Media Center 19
	Double-click an entry to activate the driver's control panel.
Shell Integration Advanced	Use 64-bit ASIO drivers Run with high process priority
	Custom channel mappings
	Add New
	Edit
	This feature allows you to configure alternate channel mappings for your ASIO-enabled soundcards.
	You may need to close and re-open the foobar 2000 preferences dialog for your newly added mappings to appear as output devices in the "output" page.
	Reset all Reset page OK Cancel Apply

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Step 4: Foobar2k Output

Click "Output" then select "Asio: foo_dsd_asio"

···· Components	Device	
Keyboard Shortcuts	ASIO : foo_dsd_asio < 2	
Media Library		
	Buffer length	
DSP Manager		
▷ Input		
	Warning: setting too low buffer length may cause some visualization effects to stop	working,
Shell Integration		
Advanced	Output format	
	Output data format:	ier
	Output data format will be chosen automatically for the selected device.	

Step 5: Foobar2k foo_dsd_asio

While STILL inside Preferences: Output:

- 1. Click on "ASIO" (above GREEN arrow 1)
- 2. Double-click "foo_dsd_asio" (above GREEN arrow 2)

The following "foo_dsd_asio v0.7.1.2" box will open

i. <u>nano iDSD</u>.....follow these settings for <u>Quad-Speed DSD256</u>)

foo_dsd_asio v0.7.1.2	×
ASIO Driver:	Fi (by AMR) HD USB Audio
DSD Playback Method:	ASIO Native
DSD to DSD Method:	None Fs: DSD256
PCM to DSD Method:	SDM Type C (FP32) Fs: DSD256
DSD/PCM Transition:	1000 ms 🔻

Technical Tutorial

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OR

ii. micro iDSD.....follow these settings for Octa-Speed DSD512)

	foo_dsd_asio v0.7	.1.2			
ASIO Driver:	iFi (by AMR) HD USB Aud	lio			*
DSD Playback Method:	ASIO Native				¥
DSD to DSD Method:	None	•	Fs:	DSD512	¥
PCM to DSD Method:	SDM Type C (FP32)	¥	Fs:	DSD512	¥
DSD/PCM Transition:	1000 ms	~			

Step 7: EXIT and SAVE

Apply > Exit to save your selection. You are now ready to enjoy your lossy MP3s which have now been upsampled to DSD256/512!

Just look for the Magenta (DSD256/512) light on nano/micro iDSD ©

Addendum: How to revert back to listening to the rest of my high-resolution files via Bit-Perfect?

- Just deselect foo_dsd_asio [ASIO] and revert back to iFi (by AMR) HD USB Audio [ASIO].
 - i. Select ASIO drivers > ASIO: iFi (by AMR) HD USB Audio
 - ii. Click "Apply" then "OK"

Preferences: ASIO	23 S
Components	ASIO drivers
Keyboard Shortcuts	foo dsd asio
Media Library	lifi (by AMR) HD USB Audio 🗋
Networking	JRiver Media Center 19
▲ Playback	
⊿ · Output	
ASIO	Double-click an entry to activate the driver's control panel.
Shell Integration	Use 64-bit ASIO drivers
Advanced	Run with high process priority
	Custom channel mappings
	Add New
	Edit
	Remove
	This feature allows you to configure alternate channel mappings for your ASIO-enabled soundcards.
	You may need to close and re-open the foobar 2000 preferences dialog for your newly added mappings to appear as output devices in the "output" page.
	Reset all Reset page OK Cancel Apply

Note to users:

- I. We do not recommend converting lossless PCM tracks to DSD or altering lossless tracks. We recommend that they are played in their respective native format PCM tracks remain PCM and DSD tracks remain DSD.
- *II.* We cannot provide any additional technical support on Foobar2K other than what has been covered in this tutorial.
- *III.* Please ensure that you are reasonably proficient at computer audio. We are not responsible for the changes you make to your computer audio setup!
- *IV.* This is only available for Windows as OS X runs only on Core Audio (not ASIO).
- V. DSD has different gain levels to PCM. So after conversion to DSD, the audio will be a little quieter, how much, varies from one filter to another.
- VI. Only 44.1/88.2/176.4 & 352.8 KHz tracks can be converted to DSD if "native" is selected in ASIO-Proxy for the iDSD nano/micro.
- VII. Native interface for now does not support 48kHz-based sample rates for DSD, only DOP does. So if you have a lot of 96/192 material you want as DSD you need to use DoP and you are limited to DSD128 (nano) or DSD256 (micro). Or you can upsample 48 to 88, 96 to 176, 192 to 352 OR downsample 48 to 44.1, 96 to 88.2, 192 to 176.4 and 384 to 352.8 etc.

<u>References</u>: This article is a good read for general for DSD playback and for the challenges it brings on many platforms.

http://www.positive-feedback.com/Issue69/dsd_pcm.htm



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