DSD Playback on Windows with foobar2000

Pre-requisites: Correct Windows driver for DAC already installed on the computer and can be configured to the DAC's supported PCM bit-rates.

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1. Download and install the latest stable version of foobar2000. Use the default installation settings unless you know what you're doing.

foobar2000 download: https://www.foobar2000.org/download

2. Download the ASIO plug-in and install it by launching the downloaded 'foo_out_asio' plug-in component. Click 'Apply' for foobar2000 to load the plug-in.

- Components	Installed components:	Rig	ht-click a component for	additional option
Display	Name	Version	Module	
Keyboard Shortcuts	Album List	1.6.4	foo_albumlist	
Media Library	CD Audio Decoder	1.6.4	foo_cdda	
	Converter	1.6.4	foo_converter	
- Shell Integration	Default User Interface	1.6.4	foo_ui_std	
· Tools	Equalizer	1.2.2	foo_dsp_eq	
Advanced	FFmpeg Decoders	4.3.1	foo_input_std	
	File Operations	1.6.4	foo_fileops	
	foobar2000 core	1.6.4	Core	
	Online Tagger	0.8	foo_freedb2	
	ReplayGain Scanner	1.6.4	foo_rgscan	
	Standard DSP Array	1.6.4	foo_dsp_std	
	Standard Input Array	1.6.4	foo_input_std	
	ZIP/GZIP/RAR/7-Zip Reader	1.6.4	foo_unpack	
	(unknown - please apply changes to load)	(unknown)	foo out asio	
	Get more components Why are some components grayed out?	I	nstall Copy report	Get updates

ASIO plugin download: https://www.foobar2000.org/components/view/foo_out_asio

3. Download the 'SACD' plug-in. Extract the zip file and install the 'foo_input_sacd' plugin component in the extracted folder. Click 'Apply' for foobar2000 to load the plug-in.

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Display	Name	Version	Module	
Keyboard Shortcuts	Album List	1.6.4	foo_albumlist	
Media Library	ASIO support	2.1.2	foo_out_asio	
Playback	CD Audio Decoder	1.6.4	foo_cdda	
Shell Integration	Converter	1.6.4	foo_converter	
Tools	Default User Interface	1.6.4	foo_ui_std	
Advanced	Equalizer	1.2.2	foo_dsp_eq	
	FFmpeg Decoders	4.3.1	foo_input_std	
	File Operations	1.6.4	foo_fileops	
	foobar2000 core	1.6.4	Core	
	Online Tagger	0.8	foo_freedb2	
	ReplayGain Scanner	1.6.4	foo_rgscan	
	Standard DSP Array	1.6.4	foo_dsp_std	
	Standard Input Array	1.6.4	foo_input_std	
	ZIP/GZIP/RAR/7-Zip Reader	1.6.4	foo_unpack	
	(unknown - please apply changes to load)	(unknown)	foo_input_sacd	
	Get more components		Comment	Caluadata

SACD plugin download: https://sourceforge.net/projects/sacddecoder/files/latest/download

 From the foobar2000 menu, go to File -> Preferences. Expand 'Playback' and select the 'Output' option. Chose the corresponding installed ASIO driver under 'Device' and click 'Apply'.



5. Staying on the 'Preferences' page, expand 'Tools' and select the 'SACD' option. Chose the DSD as the 'Output Mode' and click 'Apply'.

Preferences: SACD		? ×
Components Display Keyboard Shortcuts Media Library Networking Playback Shell Integration Code	Output Mode: DSD DoP for Converter PCM Volume [dB]: DSD DSD DSD +PCM LFE-10dB Log Overloads PCM Samplerate: 44100 Log Overloads DSD2PCM Mode: Multistage (32fp) Load Save	
AcD Advanced	Preferable Area: None Editable Tags Store Tags With ISO Linked 2CH/MCH Tags Edited Master Playback Std Tag Editor DSD Processor: None Trace	
	Reset all Reset page OK Ca	ncel Apply

6. Connect the corresponding DAC to the computer and make sure that the computer's volume control is set to the attached DAC and is at 100% volume. DSD files will be playable through the DAC now.

The above setup configures foobar2000 to use DSD over PCM (DoP) to send the DSD data to the DAC. This setup often will not achieve the maximum supported DSD native rate of the DAC. To setup foobar2000 for DSD native playback, follow the additional steps.

7. Download the latest 'DSDTranscoder' plugin. Extract the zip file and click on the 'DSDTranscoderInstall' application installer to install the plug-in.

DSDTranscoder plug-in download:

https://sourceforge.net/projects/sacddecoder/files/dsd_transcoder/

8. From the foobar2000 menu, go to File -> Preferences. Expand 'Playback' and then 'Output' to select the 'ASIO' option. If you don't see the DSD Transcoder in the list of ASIO drivers, check the 'Use 64-bit ASIO drivers' checkbox and click 'Apply'.

Preferences: ASIO		?	×
···· Components > · Display	ASIO drivers		
 Keyboard Shortcuts Media Library Networking Playback Decoding DSP Manager 	DSD Transcoder (DoP/Native) NuPrime ASIO Driver		
✓ Output ASIO	Double-click an entry to activate the driver's control panel.		
Shell Integration	Use 64-bit ASIO drivers		
✓ · Tools — DSD Processor	Run with high process priority		
ReplayGain Scanner SACD	Custom channel mappings		
> · Tagging Advanced		A	dd New
			Edit
		R	emove
	This feature allows you to configure alternate channel mappings for your ASIO soundcards. You may need to close and re-open the foobar2000 preferences dialog for you added mappings to appear as output devices in the "output" page.	-enabled r newly	
	Reset all Reset page OK Ca	ancel	Apply

9. Double click the DSD Transcoder in the ASIO drivers to bring up the settings. Select the ASIO driver of the desired output device from the dropdown. Click on the sample rates under the 44.1k and 48k columns to change the output from DoP to DSD.

Components	ASIO drivers	
· Usplay · Keyboard Shortcuts	DSD Transcoder (DoP/Native)	
Media Library	NuPrime ASIO Driver	
Networking		
Playback	DSD Transcoder 1.1.5 X	
Decoding	ACCO Devices	
- DSP Manager	ASIO Device:	
✓ Output	Double-clid NuPrime ASIO Driver	
ASIO	Null Output	
Snell Integration	Use 64 Norrine Asto Driver	
DSD Processor	Run wit Dop 64 Dop Dop	
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SACD		
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	None V Save As Close	
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erences: ASIO	Reset all Reset page OK Ca	Apply
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ferences: ASIO • Components • Display	Reset all Reset page OK Ca ASIO drivers	ancel Apply
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10. Select the 'Output' option and change the output device to the DSD Transcoder. foobar2000 should now send DSD data to the DAC in native mode.

i Components	Device					
> Display	ASIO : DSD Transcoder (DoP/Nat	ive)			~	
Media Library	Null Output					
Networking	ASIO : DSD Transcoder (DoP/Nati	ve)			9	
✓ Playback	ASIO : NuPrime ASIO Driver Default : Primary Sound Driver					
Decoding DSP Manager	Default : SPDIF Interface (SoundMAX Integrated Digital HD Audio) Default : Speakers (SoundMAX Integrated Digital HD Audio) Default : Speakers (NuPrime uDSD)					
ASIO	Warning: setting too low buffe	er length may cause som	e visualization effects i	to stop workir	ig.	
Shell Integration	Output format					
- DSD Processor	Output data format:		~~	Dither		
ReplayGain Scanner	Output data format will be chosen	automatically for the se	lected device.			
SACD						
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Auvanceu	Fading					
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Auvaliteu	Fading Enable smooth seeking, pause	and volume changes Fade in	Fade out		^	
Auvaliceu	Fading Enable smooth seeking, pause Name Pause and stop	and volume changes Fade in 100 ms	Fade out 100 ms		Ŷ	
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