

Converting Wav files with Audacity

Part of the SPIflash Tools suite

How-to manual



What is Audacity:

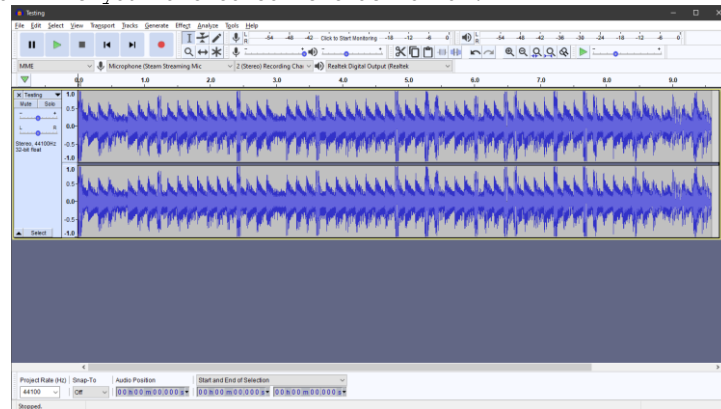
Audacity is an easy-to-use, multi-track audio editor and recorder for Windows, Mac OS X, GNU/Linux and other operating systems.

Developed by a group of volunteers as open source.

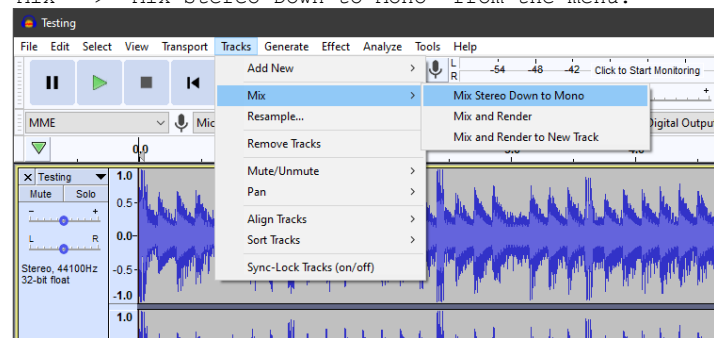
Audacity can be downloaded at <https://www.audacityteam.org/>

Converting from stereo to mono:

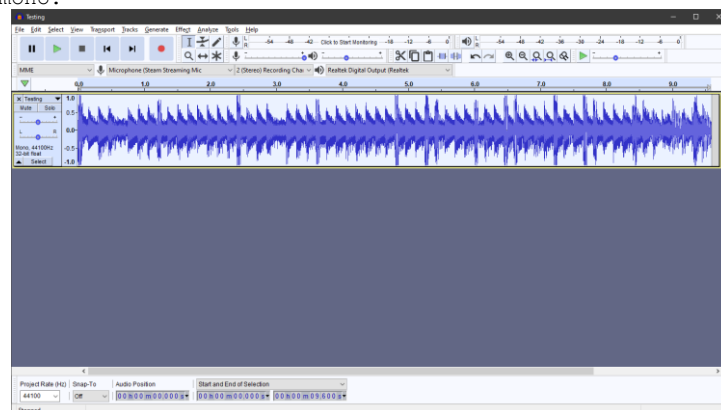
Open the stereo .wav file you want to convert as normal.



Select "Tracks" -> "Mix" -> "Mix Stereo Down to Mono" from the menu.

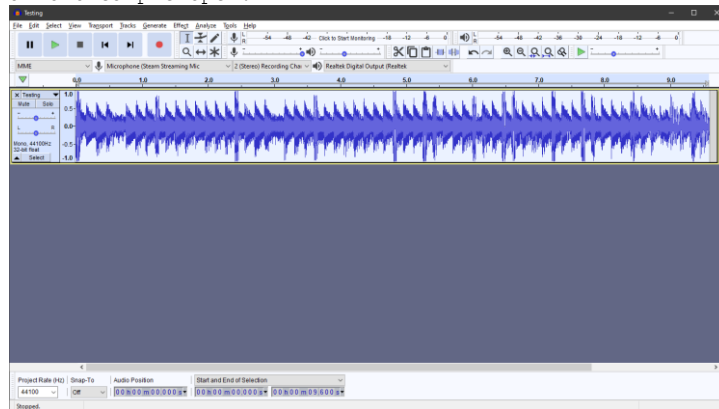


Your sample is now mono.

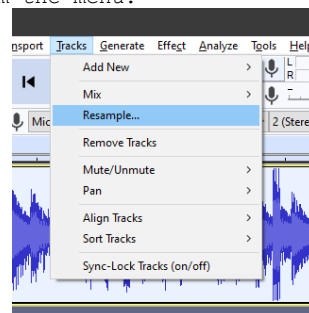


Changing the bitrate:

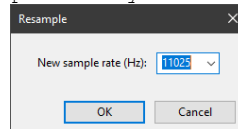
Make sure you have a mono sample open.



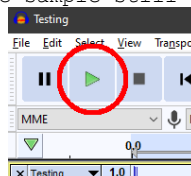
Select "Tracks" -> "Resample..." from the menu.



Select or enter the bitrate you want, preferably 11025 or less, and click "OK".



Press the Play button to verify that the sample still sounds acceptable.

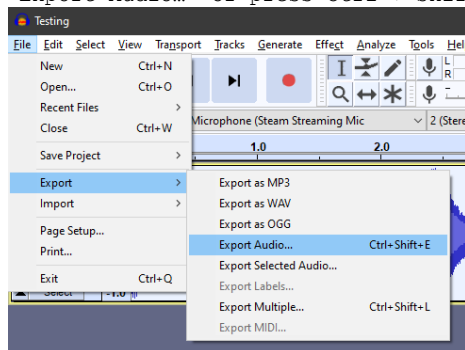


If it does not sound good you can always go back to the original bitrate by undoing the resampling (press Ctrl + Z or use the menus). Try resampling again with another, higher rate.

Saving the sample as an 8-bit PCM file:

Now that you have a mono sample at an acceptable bitrate you can export it as a file suitable for use with SPIflash FlashUploader.

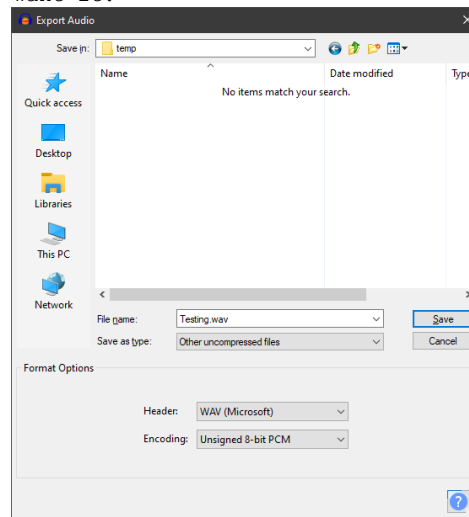
Select "File" -> "Export" -> "Export Audio..." or press Ctrl + Shift + E.



Select the following options:

Save as type: Other uncompressed files
Header: WAV (Microsoft)
Encoding: Unsigned 8-bit PCM

Then save the file where you want it.



It should be noted that saving the file as 8-bit PCM may degrade the audio quality so it is recommended that you verify that the audio quality is still good using your favorite media player that supports .wav files.