
Subject: Re: noise reduction

Posted by [Liam E. Gumley](#) on Mon, 21 Feb 2000 08:00:00 GMT

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Ingo Gross wrote:

- >
- > I'm working as a student for my diploma-thesis on a tool for noise
- > reduction
- > with microphones.
- > I've to examine the noise IN a bottle.
- > I want to avoid the influence of noise around the bottle.
- > Therefore I've put two microphones receiving two different signals:
- > One into the bottle, the other outside.
- > One microphone receives the sound in the bottle and the surrounding
- > sound,
- > the other receives the surrounding sound only.
- > I want to subtract the two signals to reduce the disturbing signal.
- >
- > I've used my soundcard to record the signal which created a
- > stereo-wav-file.
- > This file is to examine by some software.
- >
- > - Which tool shall I use? IDL or MathLab?
- > - Is it possible to import the stereo-wav file into IDL / MathLab ?
- > Or do you have any conversion-tools ?

IDL version 5.3 can read, write, and query WAV audio files. If you grab the demo version of IDL from

ftp://ftp.rsinc.com/pub/idl_5.3/

you can try loading one of your WAV files:

```
file = dialog_pickfile() ; select a WAV file
info = query_wav(file)   ; get information about the file
help, info, /structure
data = read_wav(file)    ; read the file
help, data
```

For more information, see the online help:

? read_wav

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley>
