Psychtoolbox

2 messages

Drew Fegen <dfegen@gmail.com> Fri, Apr 12, 2013 at 1:26 PM
To: Dennis Thompson <dennisthompso@gmail.com>

Hi Dennis,

Well, I got the "device loop" up and running and used it on my own Mac, so that should be ready to go for the scanner PC.

In terms of the presenting audio I found the following code snippet in the script I have (included below). Obviously some of the code deals with the sound stimulus itself (sin(1:0.25:1000) but then other parts seems to interface with the appropriate devices.

So just to be clear, there is currently no Matlab Pscytoolbox code snippet for sound currently available sitting around somewhere? So this is something I will have to code myself?

Thanks,
Drew

****

```
%%%% Setting up the sound stuff

    %%%% Psychportaudio

    load soundfile.mat

    %wave=y;

    wave=sin(1:0.25:1000);

    %freq=Fy*1.5; % change this to change freq of tone

    freq=22254;

    nrchannels = size(wave,1);

    % Default to auto-selected default output device:

    deviceid = -1;

    % Request latency mode 2, which used to be the best one in our measurement:

    reqlatencyclass = 2; % class 2 empirically the best, 3 & 4 == 2

    % Initialize driver, request low-latency preinit:

    InitializePsychSound(1);

    % Open audio device for low-latency output:

    pahandle = PsychPortAudio('Open', deviceid, [], reqlatencyclass, freq, nrchannels);

    %Play the sound
```

```
PsychPortAudio('FillBuffer', pahandle, wave);

PsychPortAudio('Start', pahandle, 1, 0, 0);

WaitSecs(1);

PsychPortAudio('Stop', pahandle);

%%%% Old way

%     Snd('Open');

%     samp = 22254.545454;

%     aud_stim = sin(1:0.25:1000);

%     Snd('Play',aud_stim,samp);
```

Dennis Thompson <dennisthompso@gmail.com> Fri, Apr 12, 2013 at 3:08 PM
To: Drew Fegen <dfegen@gmail.com>

```
%%%% Setting up the sound stuff

    %%%% Psychportaudio

    load soundfile.mat

    %some samples of generic sine wave
    wave=sin(1:0.25:1000);
    wave=[wave;wave];

    freq=2250;

    % find first dim of array
    nrchannels = size(wave,1);

    % Default to auto-selected default output device:
    %deviceid = -1;

    % do a loop to determine the corrent output device (see keyboard test)
    count = PsychPortAudio('GetOpenDeviceCount');
    devices = PsychPortAudio('GetDevices');

    % Request latency mode 2, which used to be the best one in our measurement:

    reqlatencyclass = 2; % class 2 empirically the best, 3 & 4 == 2

    % Initialize driver, request low-latency preinit:

    InitializePsychSound(1);

    % Open audio device for low-latency output:
    %pahandle = PsychPortAudio('Open' [, deviceid][, mode][, reqlatencyclass][, freq][, channels][, buffersize][,
```

suggestedLatency][, selectchannels][, specialFlags=0]);
pahandle = PsychPortAudio('Open', deviceid, [], reqlatencyclass, freq, nrchannels);

%Play the sound

PsychPortAudio('FillBuffer', pahandle, wave);

% once buffer is full you only need to run this code below next to the stimulus

PsychPortAudio('Start', pahandle, 1, 0, 0);

WaitSecs(1);

PsychPortAudio('Stop', pahandle);

On Fri, Apr 12, 2013 at 1:26 PM, Drew Fegen <dfegen@gmail.com> wrote:

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> Drew
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> **********
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> %%%% Psychportaudio
>
> load soundfile.mat
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> %wave=y;
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> wave=sin(1:0.25:1000);
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> %freq=Fy*1.5; % change this to change freq of tone
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> freq=22254;
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> nrchannels = size(wave,1);
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    % Open audio device for low-latency output:
    pahandle = PsychPortAudio('Open', deviceid, [], reqlatencyclass, freq, nrchannels);
    %Play the sound
    PsychPortAudio('FillBuffer', pahandle, wave);
    PsychPortAudio('Start', pahandle, 1, 0, 0);
    WaitSecs(1);
    PsychPortAudio('Stop', pahandle);
    %%%% Old way
%     Snd('Open');
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