

Re: Please help: I need to create a midi file using C language and "truncated fourier series"

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2005-09/msg03064.html>

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- *From:* "Mohan Pawar" <[Reply@xxxxxxxxxxxxxxxxxxxxxx](mailto:Reply@xxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 13 Sep 2005 20:50:25 GMT
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"david" <[aass000999@xxxxxxxx](mailto:aass000999@xxxxxxxx)> wrote in message  
[news:1126612851.011892.325200@xx](mailto:news:1126612851.011892.325200@xx)

- > 1.I am considering doing a simple midi file generator for my
- > 4th year project in B.SC.
- > 2.I would do it using c language, but i'm not sure how
- > difficult it would be.

There is significant learning curve for any one new to Windows API which assumes firm grasp of C. If you already have written some WinMain or WndProc functions to produce some sort of user interface then you should not find it too difficult.

- > 3.Basically, the executable c program would read a text document
- > with some "musical pseudocode" representing some `tune`.
- > Then convert the "musical pseudocode" into "midi code" that
- > could be played in any midi player like `windows media player`.
- > 4.How would you do this?
- > 5.I hear that you could use `truncated fourier series`; but how to
- > do this?
- > 6.Also, how to re-create various musical instruments?

You might be able to save lot of effort by referring to program called kbmidi.c written by Charles Petzold in his book Programming Windows 5th edition, chapter 22 on sound and music. Petzold shows how to play midi synthesizer from PC keyboard. But no Fourier series involved. Possibly because the API functions may already have included that analysis in libraries.

- > 7.Please give me some quick guidance on the above issues.

Note that Petzold's book comes with a CD and code so you can actually see different instruments play from your PC keyboard. Hope this helps.

- > 8.Thanks.
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Respectfully,

Mohan Pawar

MIO Instruments LLC

Please note that Phone # (920) 277-6037 that I used to give before is no longer in use. In future I will discontinue to mention it. Thanks.

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- ***Follow-Ups:***

- ◆ ***Re: Please help: I need to create a midi file using C language and "truncated fourier series"***

- ◆ *From:* david

- Prev by Date: ***Re: infinity***

- Next by Date: ***Re: Where do mathematical ideas come from?***

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