

# Re: Audio sampling question

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- *From:* John Fields <jfields@xxxxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Thu, 30 Aug 2007 11:14:30 -0500
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On Thu, 30 Aug 2007 06:50:02 +0100, Eeyore  
<rabbitsfriendsandrelations@xxxxxxxxxx> wrote:

Bob wrote:

"HiTek" <personalemailcl@xxxxxxxx> wrote

Can someone check my logic on this? It sounds simple but I'd appreciate someone confirming what I'm trying to do.

I have CD-quality streaming audio digitized at 44.1 ksamples per second, 16-bit samples.

I also have an approx 10 msec duration recorded segment of the same audio, in the same digital format as above.

I'm shifting the digitized streaming audio in real time into a comparator and looking for a data match between my sample and the streaming audio.

Question: What is the maximum theoretical time lag before a match can be detected, ignoring quantization noise and processing time? Is it one-half the sample period or some other value?

Thanks for your help.

Re: Audio sampling question

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Bob

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Graham

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JF

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