

# Re: Compression and PSNR

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*Source:* <http://sci.tech-archive.net/Archive/sci.image.processing/2005-04/msg00176.html>

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- *From:* Thomas Richter <[thor@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:thor@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 26 Apr 2005 16:04:57 GMT
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> @But what you \*can\* do is to measure the rate/distortion curve of  
> both codecs, even though the sample points are not identical. You  
> should be able to interpolate between the two, at least graphically:  
> Plot PSNR against BPP and compare the plots.

> But if you think about it, you are looking at the ratio I mentioned in  
> my first post even in the curves. Slope, which would define which  
> method is better is infact this ratio. Nonetheless I think that this  
> method is better.

This actually is what I mean. (-; By looking at the plots, you can also derive a region where the codec at hand performs better (low/high bitrate) as well as in absolute numbers (rate larger/smaller) as well as differentially (looking at the slope). The slope will likely not be constant along the curve either.

> @If you really got 1000 people, and you setup the test correctly  
> (i.e. you haven't tried to bribe them ;- ) then this sounds pretty  
> much convincing to me.

> But how would I prove this to the editor?

Well, I would describe the experiment and deliver some of the outcomes in numbers. As in, "we asked 1000 xxx-students to participate in our test and rate the streams according to a scale from ... to .... points. We instructed them to check for .... According to figure xxx, about xxx% of the students rated... We found artifacts of the kind xxx in streams xxx" and so on. Describe the methods accurately, give the statistics. Do not mix your conclusions with the description of the experiment, state facts first, then derive results, make clear what's the experiment and what conclusions you draw from it.

So long,  
Thomas

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- *Follow-Ups:*

- ◆ **Re: Compression and PSNR**  
◇ *From:* roshu

• **References:**

- ◆ **Compression and PSNR**  
◇ *From:* roshu
- ◆ **Re: Compression and PSNR**  
◇ *From:* Thomas Richter
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