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Subject: Small speaker flanking sub limitations.

Posted by [jonone](#) on Wed, 26 Oct 2016 20:08:54 GMT

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So my main speakers are quite small typical 6" plus 1" dome tweeter. I know the idea of running your mains full range with flanking subs is to have as many speakers overlapping as possible to help smooth the response.

But if your speakers are relatively small is there some actual benefit in crossing them over at 80hz etc like the AV boys do, does this increase "headroom" or just intermod distortion?  
Is intermod distortion audible?

Is it plausible to roll in the flanking subs with the circa 100hz crossover but then add a 80hz shallow crossover to your mains, this way the modal transition area is still covered by the mains and the flanking subs.

If you also have distributed subs you still have up to four sources overlapping up to 80hz. (Three in my case)

I suppose you can measure the response at the seating positions and see how adding in or taking out the 80hz crossover on the mains effects the response?

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