Subject: Re: Ten happy years with the 3pi... Time for the Pi 3 subs!
Posted by Wayne Parham on Fri, 25 Apr 2025 16:41:23 GMT
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I'll send plans in a separate email.

Sounds to me like you have the right equipment to build an excellent sound system!

I think you are right though - basshorns, when used indoors, are best used as distributed multisubs. So your placing them asymmetrically in the room would be a Geddes multisub configuration. Very good. Send them the LFE channel, or an all-channel summed signal with steep 4th-order low-pass, no higher than 80Hz.

Flanking subs are an excellent way to augment this arrangement, for all the reasons attributed to flanking subs - They provide baffle-step correction for the mains, mitigate SBIR and higher frequency room modes and provide additional extension.

Your basshorns provide more than adequate extension, I expect. But it is probably somewhat detached from the mains. By adding flanking subs, you'll blend them together much better.

Each flanking sub needs a low-passed copy of the signal sent to the main speaker it is flanking. The low-pass slope is generally pretty "gentle" - I find second-order at 100Hz generally works well.