Subject: Re: Slot loaded woofers
Posted by Wayne Parham on Sat, 17 Oct 2009 04:41:58 GMT
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I agree with you. I built a push-pull hornsub and the summing is in the throat, so very close acoustically. Naturally the reduction of distortion is excellent in this configuration.

I considered also building a smaller version of the same horn, basically 1/2 of the push-pull model. My thought was to make two versions, one with the throat driven by the cone face and another with the throat driven by the cone back. Each would have identical front chamber volumes, rear chamber volumes and flare. By stacking the mouths together, it would also be push-pull, but coupled at the mouth, which is acoustically distant through most of the passband.

I would expect distortion reduction to possibly be as good at the lowest frequencies, but maybe not as good as frequency went up. My expectation is there would be some degradation of performance but the advantage in the trade is it would make a smaller package, easier to move around. I really would like to know how much difference there is, so one of these days, I'll probably get around to building it. But the hornsub I did already was a very ambitious project with a lot of R&D over a long period of time. It's not a trivial design, certainly not a weekend project.