

Disclaimer

This program is offered to users in the spirit of those DiYers who enjoy playing at the computer to gain insight into an area they are interested in, in this case audio and horns, in particular.

It may be shared freely and modified as desired with the provisos that the part that references the original creator (Joe Ladish) and the credit for the Struve function section (taken from Robert McGough) be left intact. In addition, the program function file, InfExpHorn.m makes use of another function file, piecewise.m, which is copyrighted by Tobin Driscoll. The notice for use of this file is attached at the bottom of the file InfExpHorn.m following the function piecewise.m.

It would be unethical in my opinion to use it in any way for commercial purposes...it was made for personal enjoyment.

Finally, this program wasn't written to compete with any existing programs. I did try to check it against results from David McBean's Hornresp program because I felt that the DiY community has high regard for Hornresp, and I wanted the program to be credible in its results. I do also want to thank David for his pointing me toward a couple of useful papers that helped in formulating the program.

Let me be very clear, however; this program was meant to serve a set of very different purposes than many of the other programs that are available for free use.

First, I originally wrote this program for myself, and purposely did not try to make it concise and optimized. Thus, I chose to do it in Matlab and did not compile it. I decided to offer it to others in the spirit of learning how one might go about understanding the response of horns. Second, my background contains a long pedagogical experience, and I wanted this program to reflect that background. Thus, it is more for learners than practicing experts.

My hope is that others will improve on it and add to it and share it.

Joe Ladish; February23, 2013