1 Introduction

ANC -¿ bad speech -¿ -¿ Feedforward -¿ Delay LP -¿ We do simulation

2 Methods

FXLMS -¿ LP (Wiener med Wiener-Hofs fra ACF(LPC))

3 Results of Simulation

- LP Parameters (Framelength, N - Overlap, O - Prediction Gain, PG)
- -¿ No delay, no LP needed - it just works! -¿ For delay use LP FXLMS -¿ For optimal parameters gives ¿40 dB for delays below 14 @ 48 kHz.
- Compared in 1/3 -¿ LP FXLMS gives up to 30 dB

4 Discussion

- High instruction count with optimal parameters too high -¿ LP FXLMS er bare godt, lower P the better -¿ Multirate can be used
- LP FXLMS compared to FXLMS is better for higher freqs
- counter-counter-phase at 2400 Hz, which gives gain instead of attenuation.

5 Conclusion

- All in all the preposition works -¿ we attenuate speech greatly - up to 30 dB with LP for P=10
- But it is unfeasible this way due to computational cost, with these parameters we need 15000 instructions/sample. Our DSP's are too slow :(