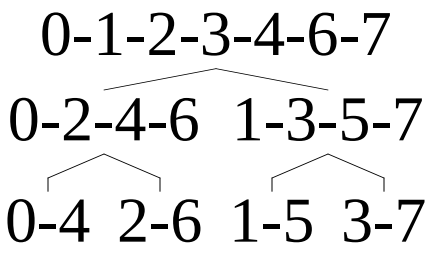

Figure 6.1 Decimation in time.

N	A	B	C	C	B	A	bitr(N)
0	0	0	0	0	0	0	0
1	0	0	1	1	0	0	4
2	0	1	0	0	1	0	2
3	0	1	1	1	1	0	6
4	1	0	0	0	0	1	1
5	1	0	1	1	0	1	5
6	1	1	0	0	1	1	3
7	1	1	1	1	1	1	7

Figure 6.2. An Example of how to decimate by bit reversal

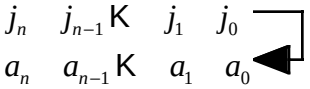

Figure 6.3. The j *and* a *registers are linked with the + operator.*

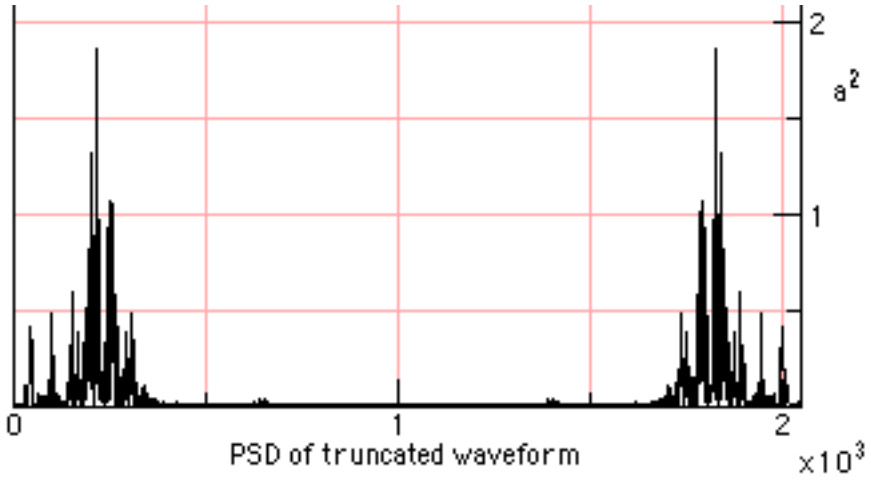

Figure 6.4. The psd of a 2048 Sampled Waveform

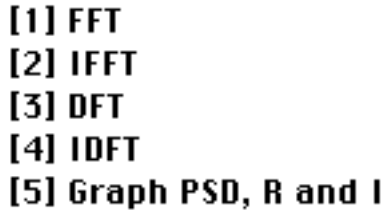

Figure 6.5. The Transform Fragment of the AudioFrame

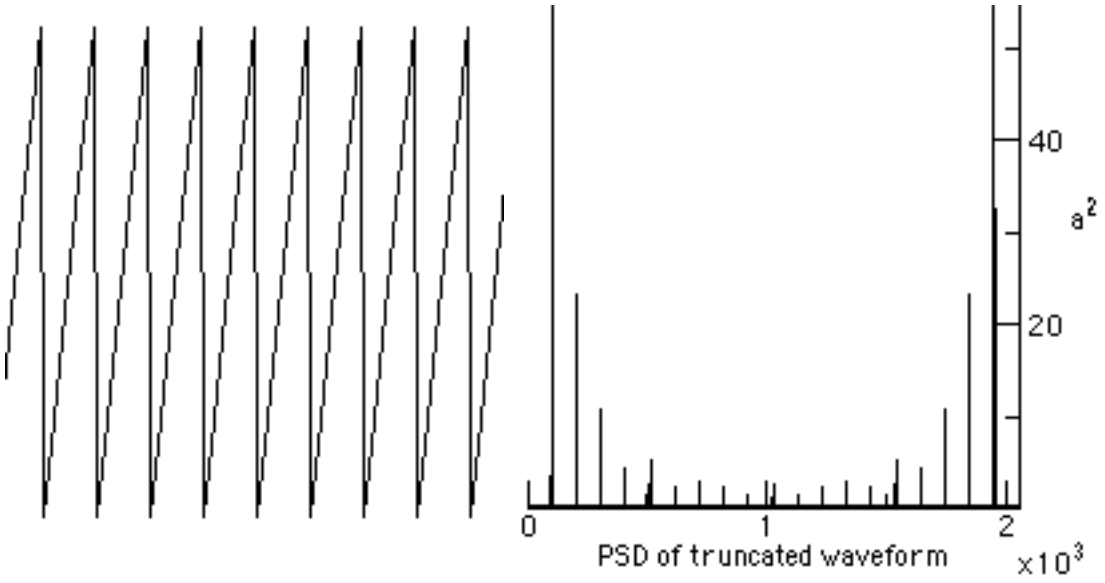

Figure 6.6. SawWave and Spectral output from the graphPSD method.

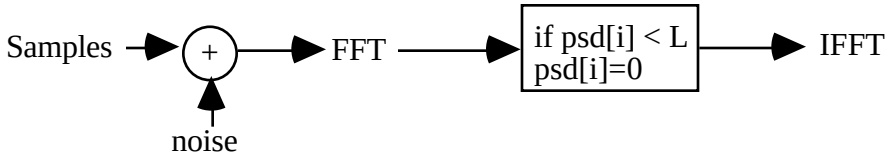

Figure 6.7. The Noise Filter

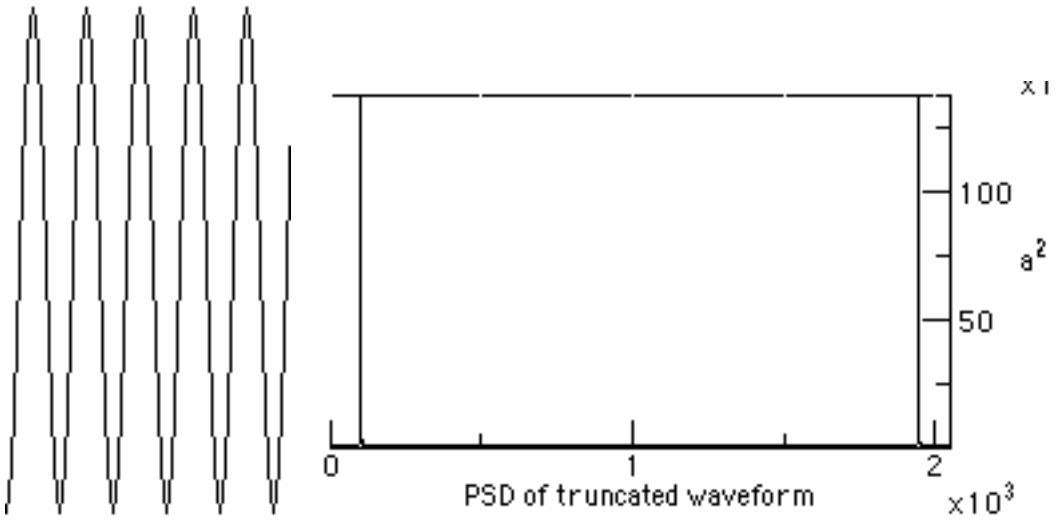

Figure 6.8. Graph of the Sine Tone at 400 Hz with psd

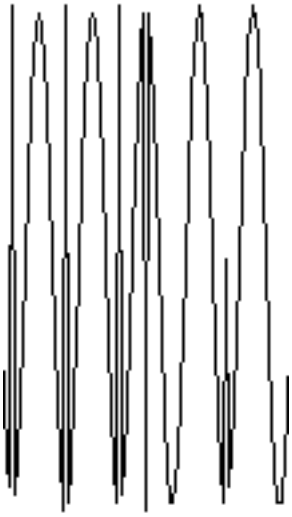

Figure 6.9. Sinewave after the addition of noise

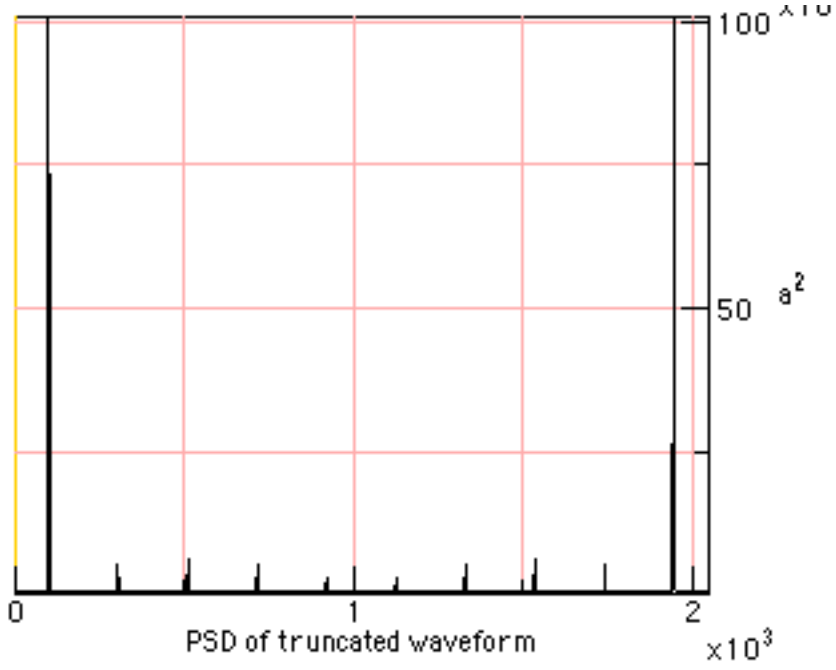

Figure 6.10. The psd of the Sinewave plus Noise

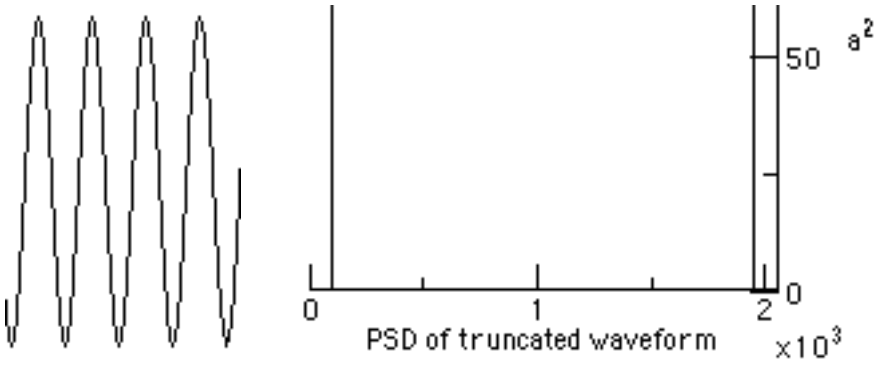

Figure 6.11. The Reconstructed Waveform and its psd

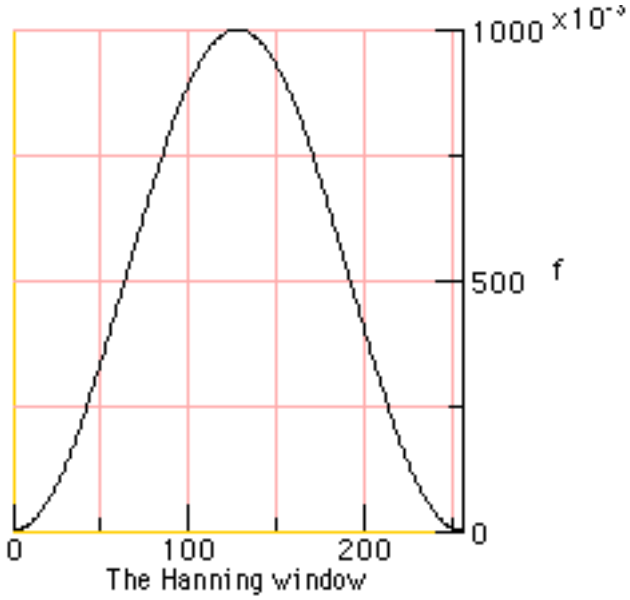

Figure 6.12 The hanning window

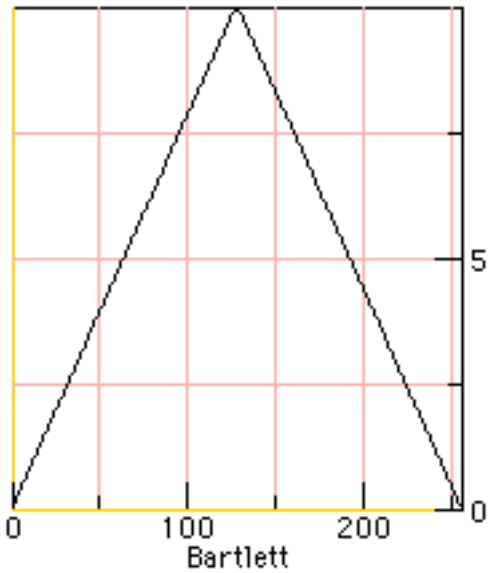

Figure 6.13. The Bartlett Window

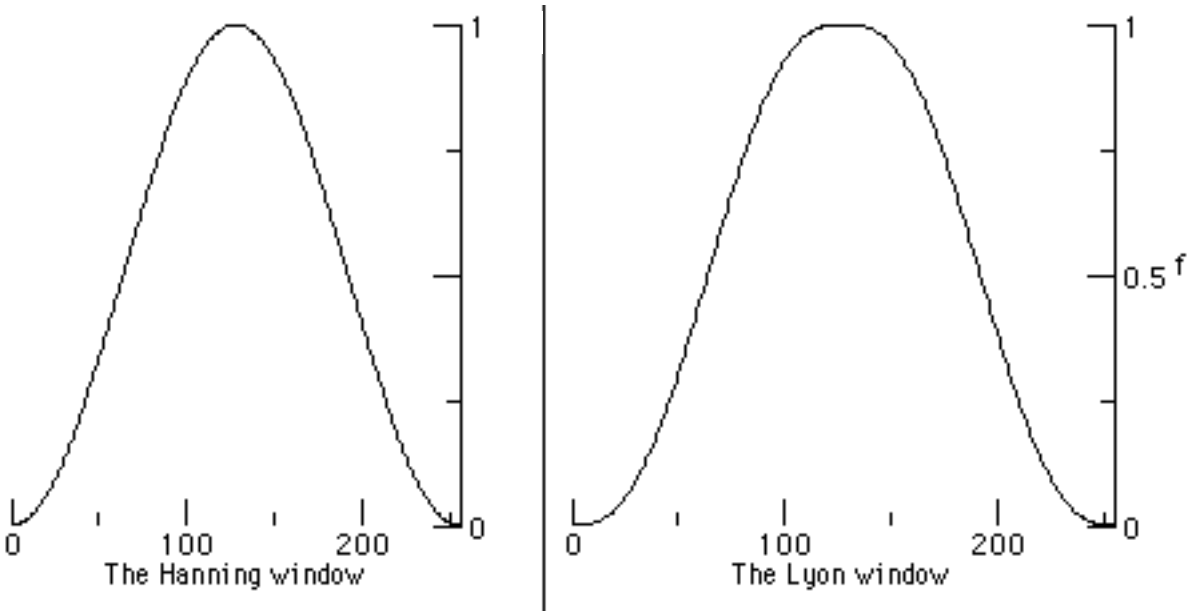

Figure 6.14. The Lyon and hanning windows compared

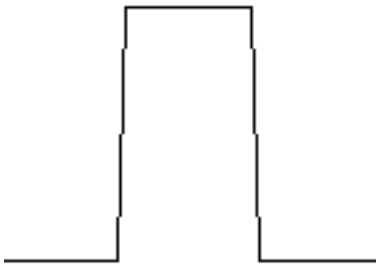

Figure 6.15. A passband shown spectral harmonics to admit

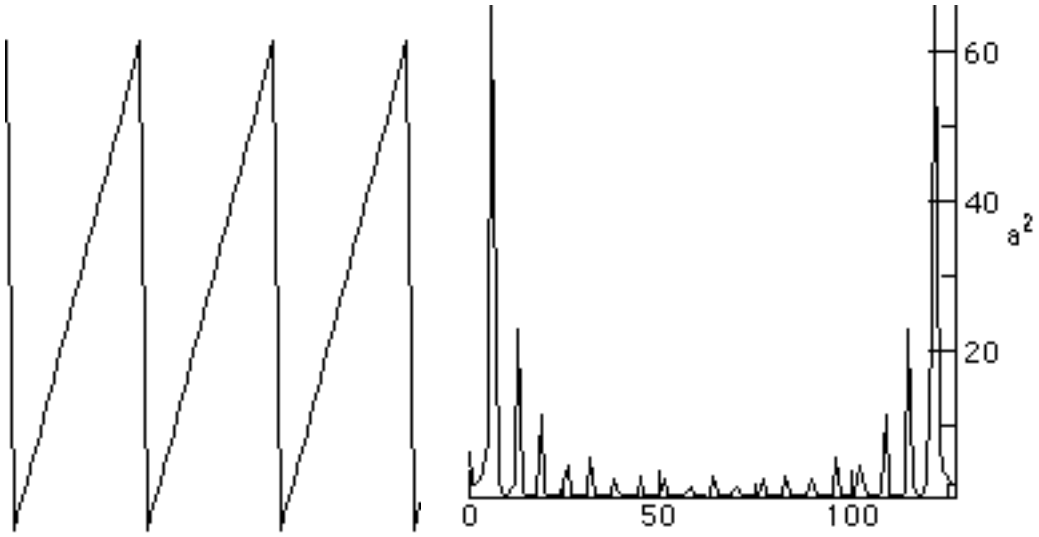

Figure 6.16. The Sawwave and its psd

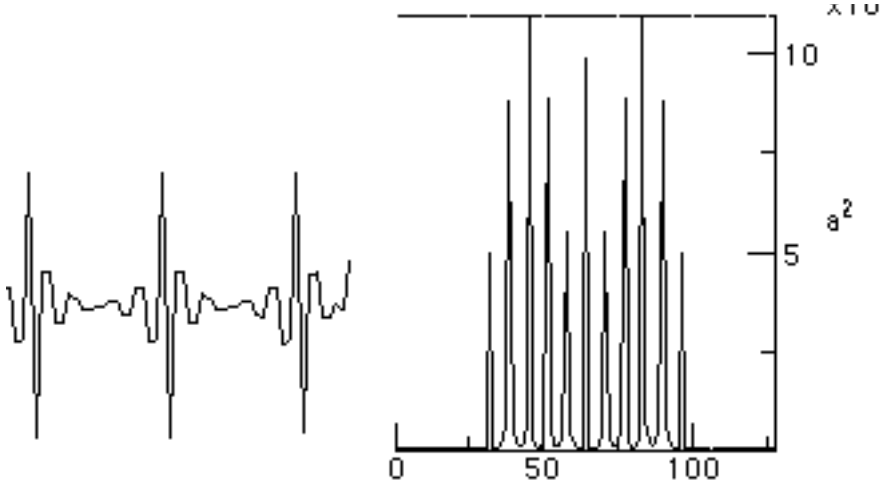

Figure 6.17. The Hi-pass filtered Sawwave and its psd

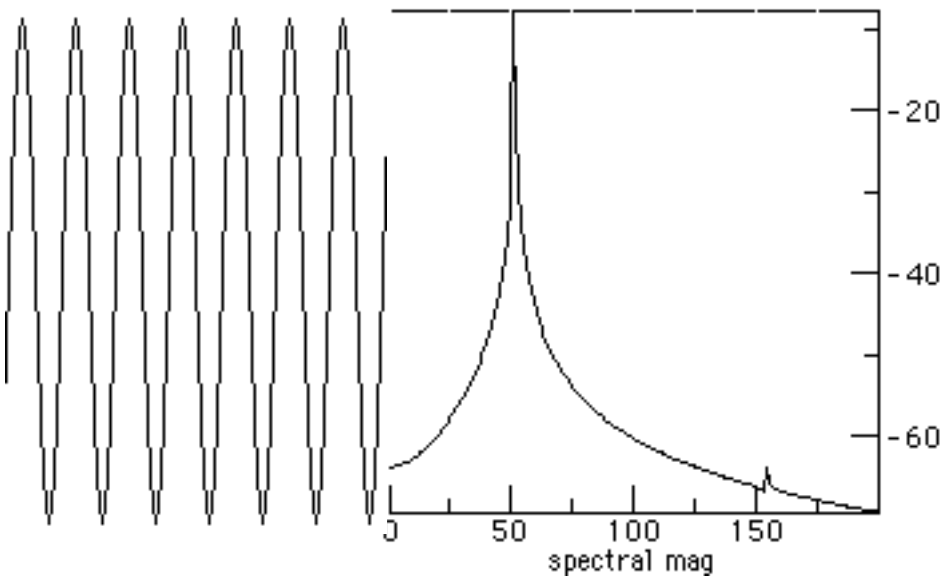

Figure 6.18. A Rectangular window and spectral dB log.

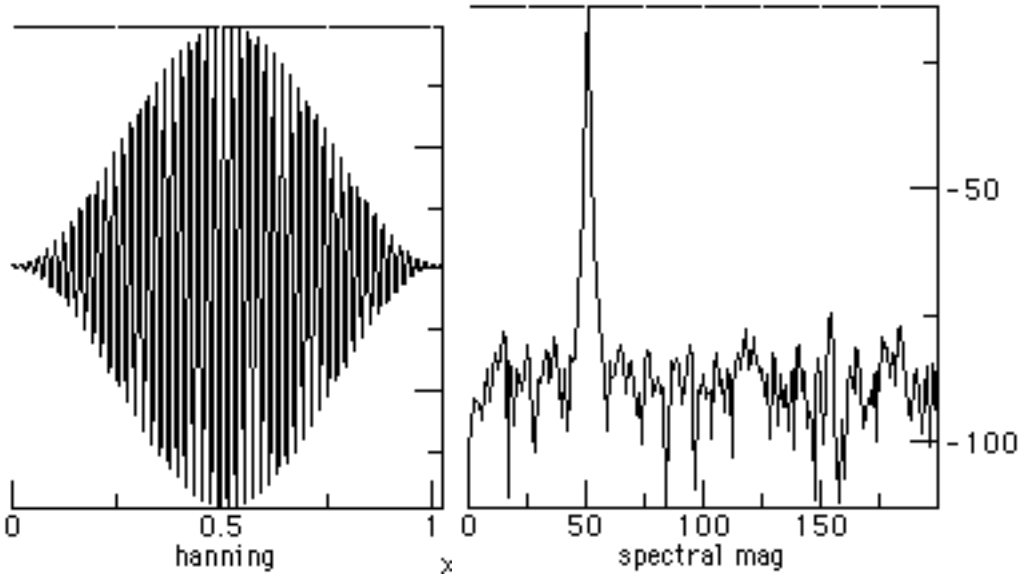

Figure 6.19. The hanning windowed data with the FFT result.

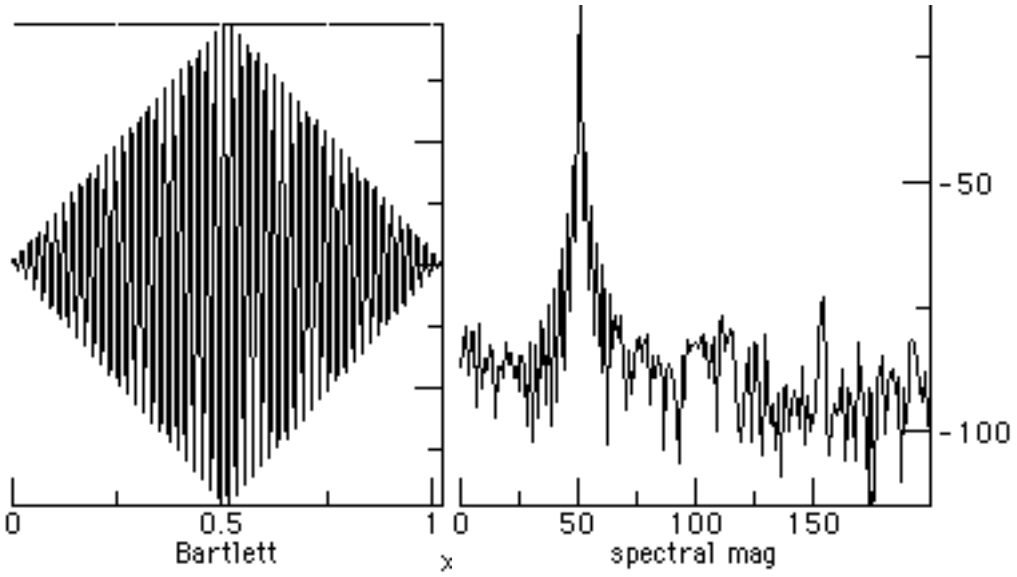

Figure 6.20. The Bartlett windowed data and the psd

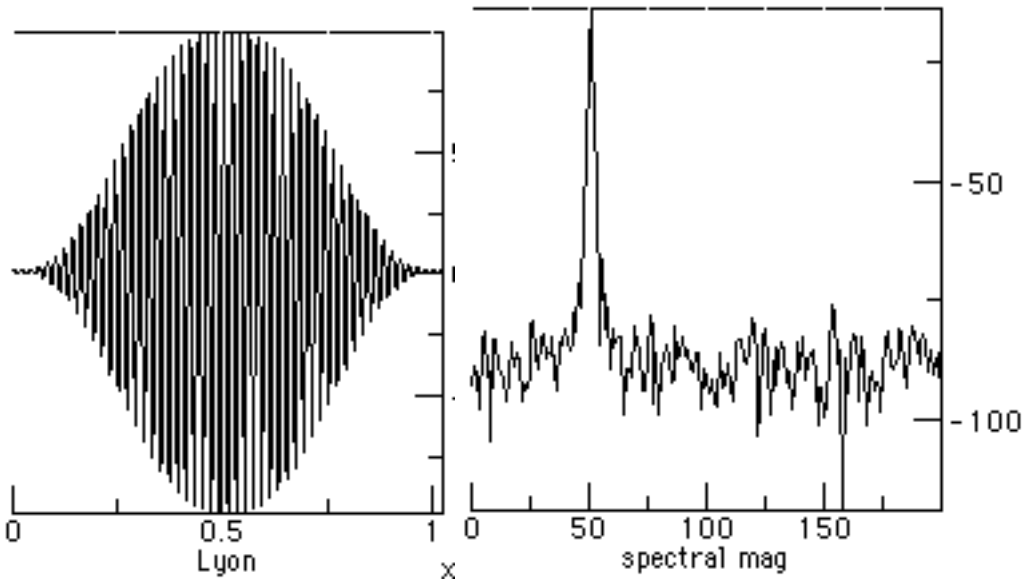

Figure 6.21. The Lyon window and psd

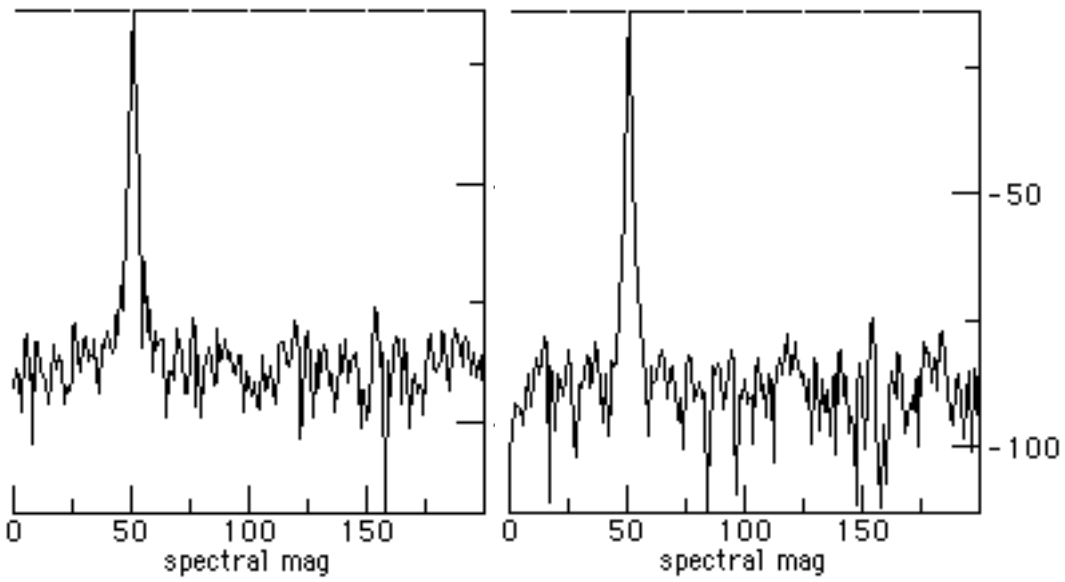

Figure 6.22. Spectra of Lyon vs. hanning windows

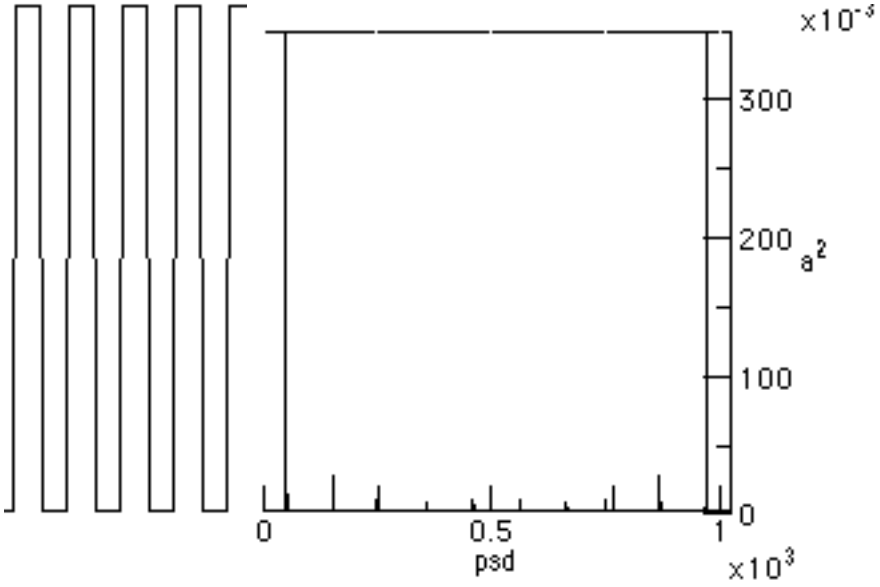

Figure 6.23. The Squarewave and its psd

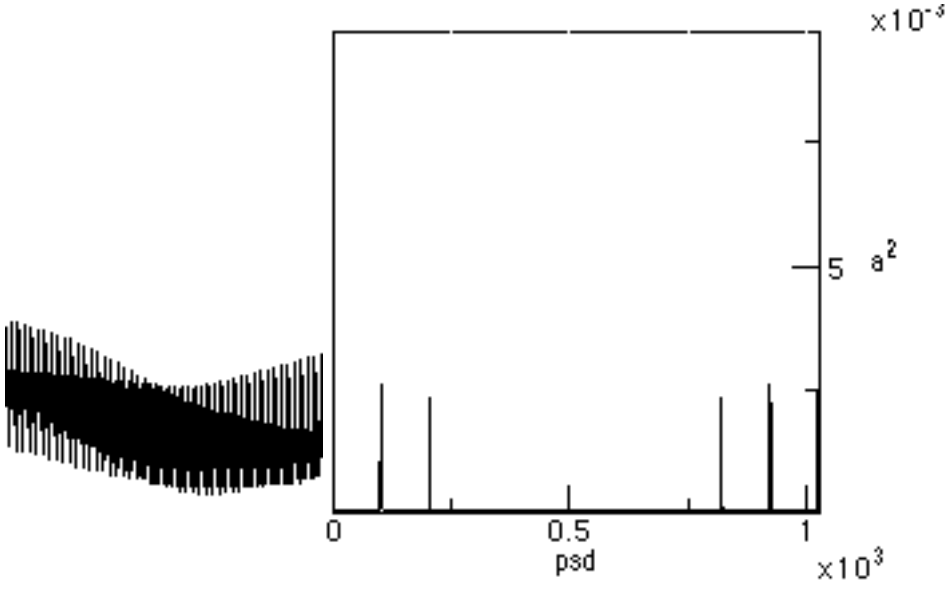

Figure 6.24. The pitch-shifted square wave and its psd.

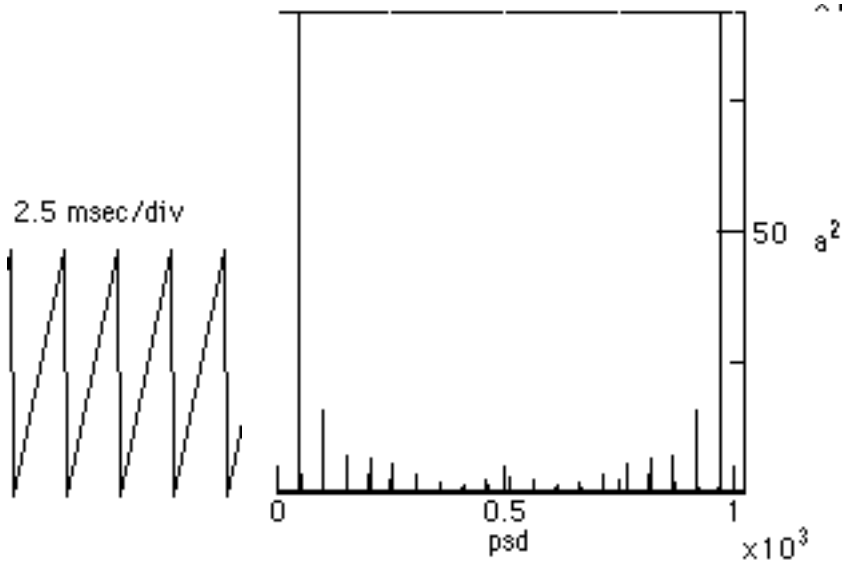

Figure 6.25. The sawwave and psd before the subsampling

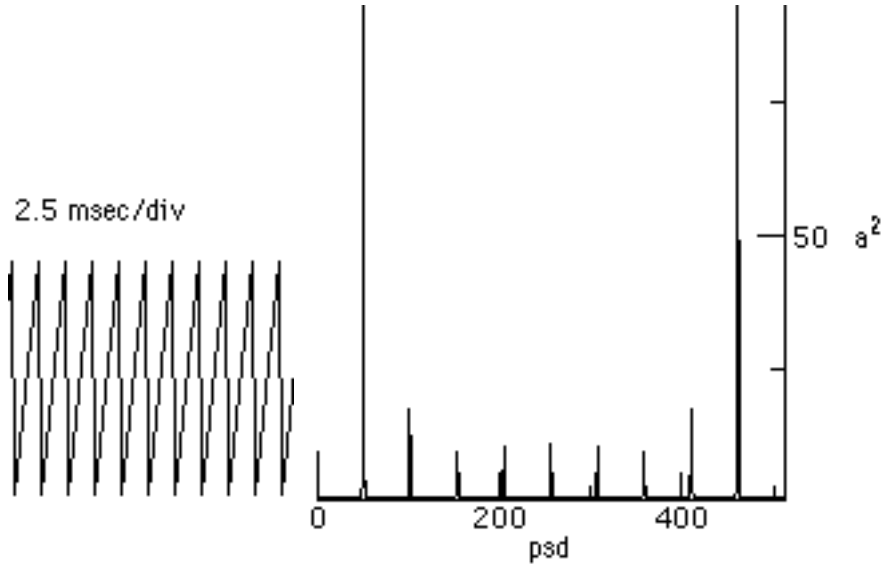

Figure 6.26. The sawave and psd after subsampling

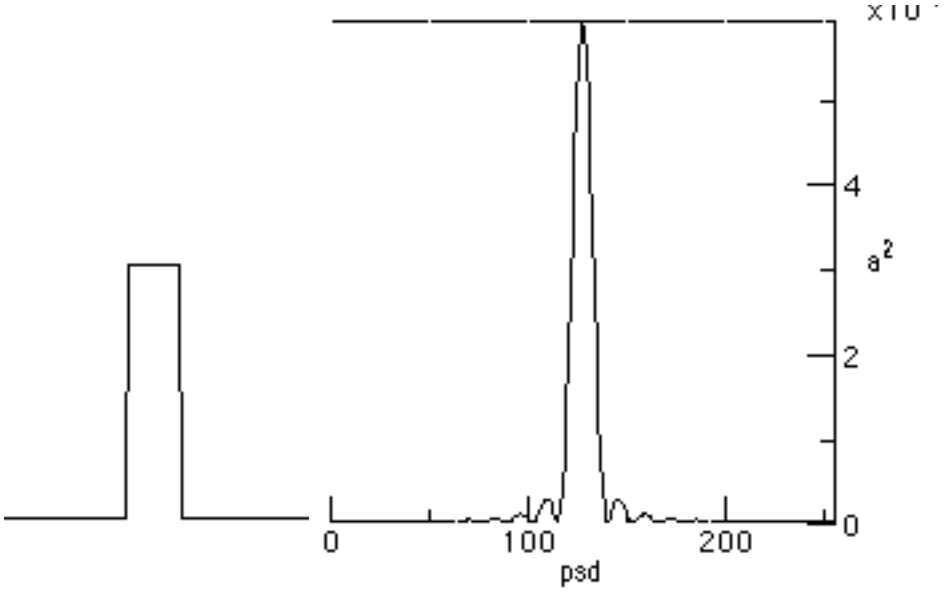

Figure 6.27 A Pulse with A Centered psd.

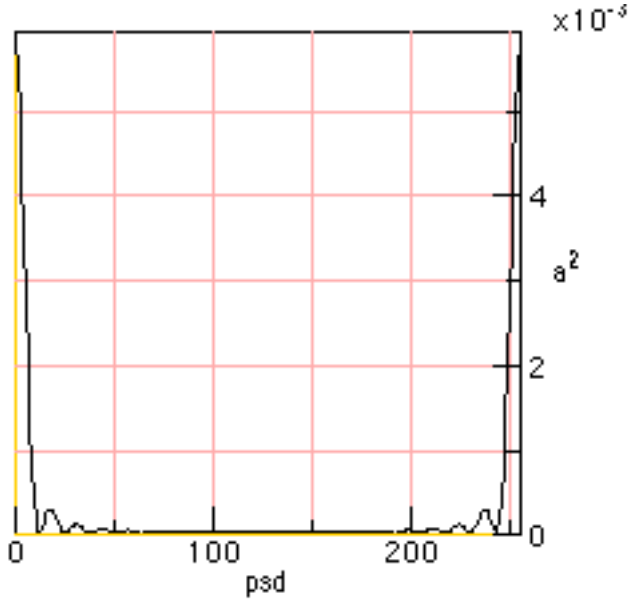

Figure 6.28. An Uncentered psd