醫用超音波專題

Computer Homework: Digital Beamformation
Due 12:00am 3/30/2005 by emailing to
paichi@cc.ee.ntu.edu.tw

Please refer to the data file "acuson17c" for this homework.

- 1. Implement the baseband digital beamformation architecture. Compare the images to the ones obtained from the RF architecture with upsampling ratio of 8. (50%)
- 2. Implement single element synthetic aperture imaging. Compare the results to full phased array imaging in mainlobe, sidelobe level and grating lobe. (50%)
- 3. Explore any related issues based on the same data file. (bonus)