

Homework Assignment

- Due 2:20pm, 12/22/2005
- Submit in class to TA.

Problem 1

- Devise a scheme for “directional Doppler energy” (i.e., Doppler energy with flow direction information). Use the following diagram to explain the blocks to modify (and how), and the blocks to remain unchanged.



Problem 2

- In the triplex mode (in which both B-mode, color Doppler and Spectral Doppler are displayed at the same time), devise a firing sequence (i.e., how the scan lines in each mode should be interleaved) and discuss if there are any performance issues associate with your scheme.
- Also discuss the impact on the resulting bio-effects.