EE 610/CPE 690 Model Based Design

Project Report: Due 30 Sep 09

Model Requirements:

Develop the receiver model as a single input (rx_data) and single output (range Doppler matrix) model. The receiver model should consist of library linked components which means all custom blocks should be linked to an established library of components. All intermediate signals between blocks need to have unique signal names (common signals can be mangled with numbers). Each custom subsystem needs to have a documentation block with a description of operation and interface specification. The interface specification needs to describe each module's inputs and outputs in terms of data type, signal dimension and function.

Report Requirements:

The report needs to contain a description of the model. Each subsystem needs to have a description of its purpose and how it operates. It will need to include screen shots of the various subsystems. The report will also need to give the results of using the evaluation test signal (provided to you). For the test stimulus, it needs to identify the number of targets, their ranges and velocities.

Deliverables:

1) Hardcopy Report
2) Electronic version of the model and library

Evaluation Criteria:

1) Report Contents
2) Model/Library Organization
3) Model Performance with Test Stimulus