## EEE4084F Lecture 5: Parallel Architectures Class Activity

Step 1: choose an application

Consider an application:

- 1. Transaction processing
- 2. Face recognition
- 3. 3D graphics rendering
- 4. Pattern search (or string search
- 5. Radar
- 6. Database queries

Step 2: which programming model would you like to use

Consider the types of programming models:

- Sequential / non-parallel
- Data parallel model
- Message passing model
- Shared memory model
- Hybrid models

TODO: Work in groups. Follow steps 1-3 shown for a selection of the applications listed in step 1.



	Types of architecture models	
g ing search)	<b>SISD</b> Single Instruction Single Data	<b>SIMD</b> Single Instruction Multiple Data
ming	<b>MISD</b> Multiple Instructions Single Data	<b>MIMD</b> Multiple Instructions Multiple Data
to use? gramming mod	lels: Step 3: which computer	

architecture would you use?