















## **Thread Model**

- Threads of control are rooted in two places
  - Hardware Interrupts
  - Tasks
- Threads of control may pass into **component** through its **interfaces** to another **component**.
- Interrupt Handlers may interrupt tasks and other interrupts.
- Tasks run to completion and may NOT be interrupted by other Tasks.
- nesC scheduler executes Tasks from a FIFO queue











## Component

- Two types of components in nesC:
  - Module
  - Configuration
- A component provides and uses Interfaces





- A configuration is a component that "wires" other components together.
- Configurations are used to assemble other components together
- Connects interfaces used by components to interfaces provided by others.









- A Directed Wire (Arrow '->') Connects Components
  - Only 2 Components at a time
  - Connection is Across an Interface
  - '<-' is equivalent to '->'
- [Component that uses the interface] '->' [component that provides the interface]
- An "=" can be used to equate an external specification element, whereas a link connects two internal elements.
- Unused System Components Excluded





- Your friend is grep or "find in files"
- Look at example applications in the /apps directory.
- Try to keep commands and events short.
  - Avoid long loops