Software Estimation Methods
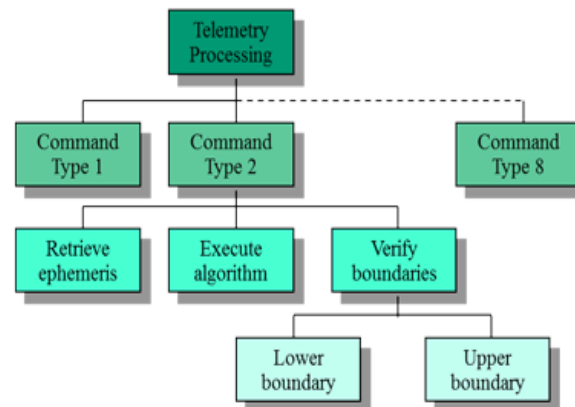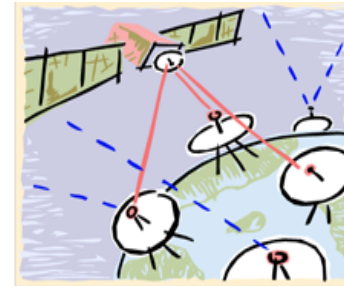
Software Estimation Methods

- Lines of Code (LOC)

- Function Points / Feature Points

- User Displays / Panels

- Classes / Modules

Lines of Code

The Satellite Command & Control example:

– Satellite command and control consists of:
  - Telemetry processing
  - Hardware control
  - User Interface
  - Off-line processing
– Decompose each functional area (e.g., telemetry processing)

Could assume that telemetry processing requires 18,000 LOCs or could further decompose into command types and decompose each command type into associated processing

Lower boundary = 200 LOCs
Upper boundary = 300 LOC
Verify boundaries = 500 LOCs
Execute algorithm = 600 LOCs
Retrieve ephemeris = 450 LOCs
Command type 2 = 1550 LOCs
Command type 1 = 950 LOCs
etc.