Software Control for FTLRS, the French Transportable Laser Ranging Station

- **a LINUX station for GUI**
  
  *Embedded real time software control is managed by a remote LINUX station through a TCP/IP link*

- **Before tracking**
  - Verify Station hardware
  - Send previsions

- **During Tracking**
  - Read Observation's results
  - Plot observation's data
  - Get operator commands

- **a VME system for real time control**

  *Multitasking Real Time System*

  - Bus VME Motorola 68040 software remote loaded at boot
  - Range gate card
  - Dating card
  - Chronometer
  - Rubidium time station (synchronized with GPS)

  *Processing Schedule is done with 3 hardware interrupts:*

  - Firing interrupt, to get start time and load range gate
  - End of range gate interrupt, to measured round trip time
  - Timer interrupt, to send positioning order to the mount: