

# Progress Report on HVmon

May 28, 2002

## Some Minor Corrections

- Changes in Trigger-Inhibit policy:
  - Before: Trip, SB, All channels off.
  - Now: Trip, SB, Ramping
- Changes in Trigger-Inhibit Control GUI
  - VB form → Fix picture
  - Auto is now “default”
- Removed redundant HB and Timer.

## Heart-Beat Program

- First Changes (Last Year)
  - ✓ Inconsistency in Day-Light-Saving-Time
  - ✓ ReadValue Function Error
  - ✓ Too Complex and Slow
- Last week
  - ✓ Removed redundant HBs and FixTimers

## **Potential cures for frequent system crash**

### **Observations:**

- **System crashes when:**
  - **there is network congestion**
  - **CPU is too busy**
- **After crash, sometimes needs reboot.**
  - **Bugs in NT kernel?**
- **Page fault on TCPTASK.EXE is too much**
  - **Example of MUON3**
    - **Before HB correction, Last year: thousands**
    - **Now: 150 per second**

### **Potential cures:**

- **Simplify program.**
- **Reduce number of programs simultaneously running**
- **Reduce using of FixTimer**
- **Decrease priority of some program**
- **Increase priority of tcptask.exe**