

## SUSPENSION RESTART PROCEDURES

### 1. DIAGNOSIS

Look at the medm screens for one of the MC optics. Most of the fields should be blank white; otherwise why are you rebooting the crate? However, if the EPICS readbacks for the OSEMs (far left) and the coils (far right) are still active, as well as the watchdog controls, then the auxiliary crate is fine – skip to step 3. If not, you will have to reboot the auxiliary crate first.

### 2. REBOOT AUXILIARY CRATE

The auxiliary crate is the VME crate at the very bottom of rack 1Y5. The Motorola processor on the far left has a red reset button. Press this button and wait two minutes. The OSEM and coil readbacks and the watchdog controls should now be visible on the medm screens. If not, call an expert.

### 3. REBOOT FRONT END CRATE

The problem may be with either the Pentium (c0dscl0) or the Baja interface to EPICS (c0dscl0epics0). Rather than have you figure out which, let's just reboot them both.

The front end crate is the second crate from the top of 1Y5. Turn the key at the upper left to shut the crate off. Wait 10 seconds, then turn the key back to restart. Wait three minutes, then go to step 4.

### 4. RESTART PROCESS

From op140m, telnet into c0dscl0. At the prompt, type **sp sus\_start** to execute the code. A string of comments will follow (including a couple of known error messages; don't panic), ending in "Init ADC main loop" or something similar. The medm screens should now look normal. If not, guess what? Call an expert.

### 5. RESTORE DEFAULT SETTINGS

Again from op140m, type **burtgooy**. A BURT main menu will appear; choose "Restore". In the new window, choose "Snapshot Files", and locate and select `/cvs/cds/caltech/burt/autoburt/snapshots/2002/Jun/defaults/c0dscl0epics0.snap`. Highlight this selected snapshot file, press "Restore", and make sure you get an "OK" green light. The current mode cleaner alignment settings will now be in place.

(NOTE: We are currently having a problem with the pitch and yaw offset switches not restoring properly. If the switch light is on, but there is no voltage shown to the right of the switch, press the switch button. The light should not change, but the proper voltage should now be applied. If confused, consult an expert.)