

Database Exercise

1. In your home directory, create a new directory called **db** and change directories into it.
2. All records you create should have unique names incorporating your user-name or initials say, for example **anj:calc**
3. Create:
 1. A calc record which counts from 0 to 99, then starts again from 0. Scan this record at 10 Hz.
 2. Another calc record which determines if the value of the counter is > 50 or not.
 3. A binary output record that has its Desired Output Location (DOL) pointing to the result of the 2nd calculation. Set the OMSL field of the binary record to **closed_loop**
 4. Save the database as **test.db**
 5. Make sure that all of your records will process.
4. Start the IOC application using this command:
/path/to/epics/base/bin/linux-x86/softIoc -d test.db
5. Test the database
 1. Use **camonitor** in a separate window to display the values of the 2 calculations and of the binary output. Did you name the two states of your binary record?
 2. Try to change the value of the binary record using **caput**
 3. Set the binary record's OMSL field to **supervisory**, then try changing the binary value again.