

MakeBaseApp and SNL Exercises

This example uses an instance of the “example” IOC application template, generated using **makeBaseApp.pl**

1. Create a <top> directory for your application under your home directory:
cd; mkdir example; cd example
2. Create an example application called “testApp”:
makeBaseApp.pl -t example test
3. Create an IOC directory file for “ioctest”:
makeBaseApp.pl -i -t example -p test test
4. Edit your **configure/RELEASE** file and change the SNCSEQ line to this:
SNCSEQ=/opt/epics/R3.14.12/modules/soft/seq/seq-2.1.16
5. Build the application:
make
6. Prepare to execute the application:
cd iocBoot/ioctest
chmod +x st.cmd
7. Edit **st.cmd** and remove the # from the seq line, so that it looks similar to:
seq sncExample, user=userHost
8. Execute the application (finally...)
./st.cmd
You should now see an **epics>** prompt, and be able to use the commands **dbl**, **dbpr**, etc.
9. Familiarize yourself with the contents of the startup file, the example database files in **testApp/Db** and the example sequence program in **testApp/src/sncExample.stt**
Create an EDM screen to display the value of the counting record.
10. Verify proper operation of the sequence program: Run the application and explore the **seqShow**, and **seqChanShow** commands
11. Add a *stringin* record to the example database and modify the sequence program to update that record's value with the current state name. Display that new record on a CSS screen.
12. Add an error state. If the sequence remains in the high state for more than 5 seconds, it should enter the error state and stay there until the user presses a (new) reset button on the CSS screen. Add the button and additional records as necessary.
13. Verify operation: Rebuild the application and restart the IOC. Add a CSS control for the SCAN field of the example's saw-tooth record so that you can see whether the error state is entered if you slow down the counter.