EPICS Instructions

THESE INSTRUCTIONS MAY BE OUTDATED.

TALK TO PELLE IF YOU NEED EXACT WORKING COMMANDS.

SVT Monitoring

Log into 'clonioc4' (requires access through gateway).

```
ssh hpsrun@clonioc1
hps_epics dev # pull up the screens that are relevant
```

SVT IOC Control

MPOD IOC

Log into '**clonioc1**' (requires access through gateway).

```
ssh clonioc1
cd /usr/clas12/hps/dev/
source .setup-hps

# Use procServMgr to control the IOC
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot -i iochvCaen [status|start|stop]

# Monitor output (to check if commands get through the IOC for example)
telnet localhost port # you can find the 'port' from the status command above

# while in monitor mode:
# If you type 'Cntrl-X' the IOC will stop and restart automatically
# You can type 'Cntr-]' to get telnet prompt (and e.g. 'quit' to exit form there).
```

SVT Hybrid and DAQ IOC

Log into '**clonioc4**' (requires access through gateway).

```
ssh epics@clonioc4 #default passw
cd /usr/clas12/hps/dev/
source .setup-hps

# Use procServMgr to control the IOC
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot [-i IOC_NAME] [status|start|stop]

# Examples:

# start/stop/status for all SVT DAQ IOCs:
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot status/start/stop

# Control DPMIOC only:
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot status/start/stop -i iocsvtDaq status/start/stop

# Data DPM "X" (X=0-13) IOC only:
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot status/start/stop -i iocsvtDaqDpmX status/start/stop


# Bring up the IOC stdout for all or individual SVT DAQ IOCs
cd /usr/clas12/hps/dev/apps/svtDaqApp/scripts
./start_svt_mon.py  -h [dpmX|dtmY|cntrldpm] # 'X'=0-13 and 'Y'=0-1
```

If everything fails try to use the below standard procServMgr scripts:

```
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot status/start/stop
```

If the IOC refuses to stop or start, the process might be stuck and you manually have to kill the IOCs before you restart.

If that fails, call Pelle.

Official IOC instructions

NOT USED FOR THE MOMENT

Access IOC from clonioc1:

```
telnet localhost 20006  # iochvCaen
telnet localhost 20007  # iocsvtDaq
```

Control IOC from clonioc1:

```
Ctrl+] to exit #(type quit in terminal)
Ctrl+x to reboot
```

ProcServer commands

The path has to be included to override the production default. So it's a bit cumbersome, but you can put the lines in a local script.

```
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot -i iocsvtDaq stop
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot -i iocsvtDaq start
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot -i iocsvtDaq status
# show all iocs
procServMgr -p /usr/clas12/hps/dev/apps/iocBoot status
```

Development tree on clonioc1:

```
cd /usr/clas12/hps/dev
# contains:
#   apps/hvCaenApp, apps/iocBoot/iochvCaen
#   apps/svtDaqApp, apps/iocBoot/iocsvtDaq
#   drivers/LVMPOD
```