Setup

st.cmd

(/net/s8iddserv/xorApps/epics/synApps_5_8/ioc/8id/iocBoot/ioc8idd/st.cmd)

```
Make sure protocol path is set, e.g.:
```

serial.cmd

(/net/s8iddserv/xorApps/epics/synApps_5_8/ioc/8id/iocBoot/ioc8idd/serial.cmd)

Make sure db file loaded, e.g.:

```
dbLoadRecords("/net/s8iddserv/xorApps/epics/synApps_5_8/ioc/8id/8idApp/Db/d
evKeithley2400.db","P=8ide:,R=2400:,L=0,A=-1,PORT=L0")
```

devKeithley2400.vdb

(/net/s8iddserv/xorApps/epics/synApps_5_8/ioc/8id/8idApp/Db/devKeithley2400.vdb)

```
-Copy as devKeithley2400.db
-Remove vdb lines (at end)
-Add the following record:

record(waveform, $(P)$(R)ReadArray) {
   field(DESC, "Gets array data from Keithley")
   field(DTYP, "stream")
   field(FTVL, "DOUBLE")
   field(NELM, "1067")
   field(INP, "@keithley.proto read_array() $(PORT)")
   field(PINI, "NO")
   field(SCAN, "Passive")
}
```

keithley2400.proto

(Add to 8idApp/Db directory, make sure stream_protocol_path set in st.cmd)

```
Terminator = CR;
ReadTimeout = 5000;
read_array {
    out ":READ?";
    separator=",";
    in "%+E";
    ExtraInput = Ignore;
}
```

Usage

The setting of the PV's PROC field is what will instigate the the sweep. The reading (caget) of the PV must be delayed until the sweep is completed or else stale data will be returned.

From command line:

In python

From command line: