# List of Simulated PVs for Testing

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During this development phase, before injector commissioning, the IOC and software developers will have simulated PVs (simulated data and control interface) for testing purposes. Many of these will be up on the network and available for anyone to use. This wiki page lists those PVs available for testing. Please see Diane Fairley, Mike Zelazny, Sergei Chevtsov or Debbie Rogind for further information about these test PVs.

**Test PVs: XL07 / XX07**

There are a bunch of TEST PVs on IOC XX07 that anyone can read /write.
They are named by their EPICS record type.

If the soft IOC is not already up, it may be started typing the following at a Linux command prompt:
**>iocConsole XX07**

The following PVs are available (read/write):

TEST:XX07:1:AI
TEST:XX07:2:AI
TEST:XX07:3:AI
TEST:XX07:1:AO
TEST:XX07:2:AO
TEST:XX07:3:AO
TEST:XX07:1:LONGIN
TEST:XX07:2:LONGIN
TEST:XX07:3:LONGIN
TEST:XX07:1:LONGOUT
TEST:XX07:2:LONGOUT
TEST:XX07:3:LONGOUT
TEST:XX07:1:STRINGIN
TEST:XX07:2:STRINGIN
TEST:XX07:3:STRINGIN
TEST:XX07:1:STRINGOUT
TEST:XX07:2:STRINGOUT
TEST:XX07:3:STRINGOUT
TEST:XX07:1:WFDOUBLE
TEST:XX07:1:WFLONG
TEST:XX07:1:WFSHORT
TEST:XX07:2:WFDOUBLE
TEST:XX07:2:WFLONG
TEST:XX07:2:WFSHORT
TEST:XX07:3:WFDOUBLE
TEST:XX07:3:WFLONG
TEST:XX07:3:WFSHORT

**Soft IOC MIKE Test PVs**

Mike Zelanzy and Sergei Chevtsov have a few OTR/YAG test PVs listed below:

If their test IOC is up then these PVs are available:

r/w MIKE:BEAM:RATE 0,1,10
r MIKE:BEAM:RATE.EGU Hz
r/w MIKE:BEAM ON,OFF

r MIKE:OTR2:BKG:IMAGE
r MIKE:OTR2:IMAGE
r MIKE:OTR2:IMAGE:BPP
r MIKE:OTR2:IMAGE:HEIGHT
r MIKE:OTR2:IMAGE:WIDTH
r/w MIKE:OTR2:POS:REQ
r MIKE:OTR2:POS

r MIKE:OTR4:BKG:IMAGE
r MIKE:OTR4:IMAGE
r MIKE:OTR4:IMAGE:BPP
r MIKE:OTR4:IMAGE:HEIGHT
r MIKE:OTR4:IMAGE:WIDTH
r/w MIKE:OTR4:POS:REQ
r MIKE:OTR4:POS

r/w MIKE:OTR12:POS:REQ
r MIKE:OTR12:POS

r/w MIKE:OTRS1:POS:REQ
r MIKE:OTRS1:POS

r/w MIKE:YAGS1:POS:REQ
r MIKE:YAGS1:POS

r/w MIKE:YAGS2:POS:REQ
r MIKE:YAGS2:POS

**PV List for Feedback Simulator IOC: XL04 / XX04**
Diane has a soft IOC to support feedback development.
If this soft IOC is up, the following data acquisition (read only) PVs will be available:

**Measurement PVs**

| PV Name | Purpose | Units | Range |
|---|---|---|---|
| BLEN:XX04:265:WIDTH, WIDTHHST, WIDTH1HZ | Width of pulse (length) | Fsec | 100.0 to 300.0 |
| BPMS:XX04:<position>:X, XHST, X1HZ position = 525, 581, 631, 651, 731, 771, 781, 925, 945, 981, 233 | Beam position in X | Mm | -3.0 to 3.0 |
| BPMS:XX04:<position>:Y, YHST, Y1HZ | Beam position in Y | Mm | -3.0 to 3.0 |
| BPMS:XX04:<position>:TMIT, TMITHST, TMIT1HZ | Electron count | | 1e10 to 3e10 |
| TORO:XX04:215:TMIT, TMITHST, TMIT1HZ | Electron count | | 1e10 to 3e10 |