

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:WFDDOUBLE
TEST:XX07:1:WFLONG
TEST:XX07:1:WFSHORT
TEST:XX07:2:WFDDOUBLE
TEST:XX07:2:WFLONG
TEST:XX07:2:WFSHORT
TEST:XX07:3:WFDDOUBLE
TEST:XX07:3:WFLONG
TEST:XX07:3:WFSHORT

Soft IOC MIKE Test PVs

Mike Zelazny 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	Unit s	Range
BLN: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