

ADDI-DATA: after loading Pattern.db, pulseid no longer stuck at 131071

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```
# ./st.cmd
Successfully locked memory using mlockAll
#!../bin/linuxRT_glibc-x86_64/apci1710App
< envPaths
epicsEnvSet("ARCH","linuxRT_glibc-x86_64")
epicsEnvSet("IOC","apci1710-ioc")
epicsEnvSet("TOP","../..")
epicsEnvSet("EPICS_SITE_TOP","/afs/slac/g/lcls/epics/R3-14-12-4_1-0")
epicsEnvSet("BASE_SITE_TOP","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/base")
epicsEnvSet("MODULES_SITE_TOP","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules")
epicsEnvSet("IOC_SITE_TOP","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/iocTop")
epicsEnvSet("PACKAGE_SITE_TOP","/afs/slac/g/lcls/package")
epicsEnvSet("TOOLS_SITE_TOP","/afs/slac/g/lcls/tools")
epicsEnvSet("ALARM_CONFIGS_TOP","/afs/slac/g/lcls/tools/AlarmConfigsTop")
epicsEnvSet("EPICS_MODULES","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules")
epicsEnvSet("SNCSEQ","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/seq/seq-R2-1-6_1-3")
epicsEnvSet("AUTOSAVE","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/autosave/autosave-R5-5_0-0")
epicsEnvSet("CAPUTLOG","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/caPutLog/caPutLog-R3-3-0")
epicsEnvSet("IOCADMIN","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/iocAdmin/iocAdmin-R3-1-14_1-0")
epicsEnvSet("EVRCLIENT","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/evrClient/evrClient-R1-0-p4")
epicsEnvSet("MISCUTILS","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/miscUtils/miscUtils-R2-2-2")
epicsEnvSet("EVENT","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/evrClient/evrClient-R1-0-p4")
epicsEnvSet("RTEMSUTILS","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/rtemsutils/rtemsutils-R1-0-0-lcls5")
epicsEnvSet("ASYN","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/asyn/asyn-R4-26_0")
epicsEnvSet("CEXP","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/modules/cexpsh/cexpsh-R1-0-0")
epicsEnvSet("EPICS_BASE","/afs/slac/g/lcls/epics/R3-14-12-4_1-0/base/base-R3-14-12-4_1-0")
epicsEnvSet("LINUX_KERNEL_MODULES","/afs/slac/g/lcls/package/linuxKernel_Modules")
## Register all support components
dbLoadDatabase("../dbd/apci1710.dbd",0,0)
apci1710_registerRecordDeviceDriver(pdbbase)
Warning: IOC is booting with TOP = "../.."
        but was built with TOP = "../.."
dbLoadTemplate("APCI1710.substitutions")
# EVR
epicsEnvSet(IOC_NAME,"cafTESTevr")
epicsEnvSet(FAC,"SYS0")
epicsEnvSet(CRD,"0")
dbLoadRecords("../db/EvrPci.db","EVR=cafTESTevr,CRD=0,SYS=SYS0")
```

```
dbLoadRecords("../db/Pattern.db","IOC=cafTESTevr,SYS=SYS0")
eevrmaConfigure(0, "/dev/vevr0")
DBG: ----- will evrmaOpenSession
DBG: mmap = 0xa5f41000
APCI1710Config("apci1710", 0)
iocInit()
Starting iocInit
#####
## EPICS R3.14.12.4-1-0 $Date: Mon 2013-12-16 15:51:45 -0600$
## EPICS Base built Jan 9 2015
#####
CPU Clock Estimation: 1900.140973 MHz
iocRun: All initialization complete
epics> interruptThread(0): RTCounts=0 pulseid=126300
interruptThread(0): RTCounts=0 pulseid=127944
interruptThread(0): RTCounts=0 pulseid=129864
```

```
-----
# echo 1 > /proc/driver/apci1710ctr0/intEnable
#
# echo 0 > /proc/driver/apci1710ctr0/digout
# echo 1 > /proc/d[341883.035213] r0/digout
[341883.035213] i_APCI1710_TestInterrupt: mm = 0, im = 1, latch = 0
[341883.044079] apci1710_interrupt: ringbufPushLocked(chan=0, val=0) succeeded!
[341883.044083] apci1710ctr: read(ctr=0) waking up
river/apci1710ctr[341883.055659] apci1710ctr: read(ctr=0) = 12
r0/digout
# [341883.061147] apci1710ctr: read(ctr=0) going to sleep

# echo 0 > /proc/driver/apci1710ctr0/digout
# echo 1 > /proc/driver/apci1710ctr0/digout
[341887.947861]
[341887.947861] i_APCI1710_TestInterrupt: mm = 0, im = 1, latch = 0
[341887.955547] apci1710_interrupt: ringbufPushLocked(chan=0, val=0) succeeded!
[341887.955551] apci1710ctr: read(ctr=0) waking up
# [341887.967136] apci1710ctr: read(ctr=0) = 12
[341887.971408] apci1710ctr: read(ctr=0) going to sleep

#
```