

MEBT Virtual Accelerator

Environment Variable Settings:

bash:

```
export EPICS_CA_AUTO_ADDR_LIST=NO  
export EPICS_CA_ADDR_LIST="160.91.227.21"  
export EPICS_CA_SERVER_PORT=5075
```

csh:

```
setenv EPICS_CA_AUTO_ADDR_LIST NO  
setenv EPICS_CA_ADDR_LIST "160.91.227.21"  
setenv EPICS_CA_SERVER_PORT 5075
```

Underlying Model: Trace3D

Instructions:

- 1) Issue caget at will to read values
- 2) To change a value
 - a. do a caput to modify something
 - b. set MODEL:Trace3D:SimStart to 1 to force the model to run
 - c. MODEL:Trace3D:SimStart will reset itself to 0 after the model is done

Available PVs (see PV List <http://www.sns.gov/APGroup/appProg/PVList.pdf> for description of these)

MEBT_Mag:QH01:fieldRB
MEBT_Mag:QV02:fieldRB
MEBT_Mag:QH03:fieldRB
MEBT_Mag:QV04:fieldRB
MEBT_Mag:QH05:fieldRB
MEBT_Mag:QV06:fieldRB
MEBT_Mag:QH07:fieldRB
MEBT_Mag:QH08:fieldRB
MEBT_Mag:QV09:fieldRB
MEBT_Mag:QH10:fieldRB
MEBT_Mag:QV11:fieldRB
MEBT_Mag:QH12:fieldRB
MEBT_Mag:QV13:fieldRB
MEBT_Mag:QH14:fieldRB

MEBT_Mag:QH01:fieldSet
MEBT_Mag:QV02:fieldSet
MEBT_Mag:QH03:fieldSet
MEBT_Mag:QV04:fieldSet
MEBT_Mag:QH05:fieldSet
MEBT_Mag:QV06:fieldSet
MEBT_Mag:QH07:fieldSet
MEBT_Mag:QH08:fieldSet
MEBT_Mag:QV09:fieldSet
MEBT_Mag:QH10:fieldSet
MEBT_Mag:QV11:fieldSet
MEBT_Mag:QH12:fieldSet
MEBT_Mag:QV13:fieldSet
MEBT_Mag:QH14:fieldSet
MEBT_Mag:DCH01:fieldSet
MEBT_Mag:DCV01:fieldSet
MEBT_Mag:DCH04:fieldSet
MEBT_Mag:DCV04:fieldSet
MEBT_Mag:DCH05:fieldSet
MEBT_Mag:DCV05:fieldSet
MEBT_Mag:DCH10:fieldSet
MEBT_Mag:DCV10:fieldSet
MEBT_Mag:DCH11:fieldSet
MEBT_Mag:DCV11:fieldSet
MEBT_Mag:DCH14:fieldSet
MEBT_Mag:DCV14:fieldSet
MEBT_Mag:DCH01:fieldRB
MEBT_Mag:DCV01:fieldRB
MEBT_Mag:DCH04:fieldRB
MEBT_Mag:DCV04:fieldRB
MEBT_Mag:DCH05:fieldRB
MEBT_Mag:DCV05:fieldRB
MEBT_Mag:DCH10:fieldRB
MEBT_Mag:DCV10:fieldRB
MEBT_Mag:DCH11:fieldRB
MEBT_Mag:DCV11:fieldRB
MEBT_Mag:DCH14:fieldRB
MEBT_Mag:DCV14:fieldRB
MEBT_RF:RB1:cavAmpAvg
MEBT_RF:RB2:cavAmpAvg
MEBT_RF:RB3:cavAmpAvg
MEBT_RF:RB4:cavAmpAvg
MEBT_RF:RB1:cavPhaseAvg
MEBT_RF:RB2:cavPhaseAvg
MEBT_RF:RB3:cavPhaseAvg
MEBT_RF:RB4:cavPhaseAvg

MEBT_RF:RB1:cavAmpSet
MEBT_RF:RB2:cavAmpSet
MEBT_RF:RB3:cavAmpSet
MEBT_RF:RB4:cavAmpSet
MEBT_RF:RB1:cavPhaseSet
MEBT_RF:RB2:cavPhaseSet
MEBT_RF:RB3:cavPhaseSet
MEBT_RF:RB4:cavPhaseSet
MEBT_Diag:BPM01:xAvg
MEBT_Diag:BPM04:xAvg
MEBT_Diag:BPM05:xAvg
MEBT_Diag:BPM10:xAvg
MEBT_Diag:BPM11:xAvg
MEBT_Diag:BPM14:xAvg
MEBT_Diag:BPM01:yAvg
MEBT_Diag:BPM04:yAvg
MEBT_Diag:BPM05:yAvg
MEBT_Diag:BPM10:yAvg
MEBT_Diag:BPM11:yAvg
MEBT_Diag:BPM14:yAvg
MEBT_Diag:BPM01:ampAvg
MEBT_Diag:BPM04:ampAvg
MEBT_Diag:BPM05:ampAvg
MEBT_Diag:BPM10:ampAvg
MEBT_Diag:BPM11:ampAvg
MEBT_Diag:BPM14:ampAvg
MEBT_Diag:BPM01:phaseAvg
MEBT_Diag:BPM04:phaseAvg
MEBT_Diag:BPM05:phaseAvg
MEBT_Diag:BPM10:phaseAvg
MEBT_Diag:BPM11:phaseAvg
MEBT_Diag:BPM14:phaseAvg
MEBT_Diag:BCM02:iAvg
MEBT_Diag:BCM11:iAvg

MODEL:Trace3D:SimStart
MODEL:Trace3D:BeamCiniX
MODEL:Trace3D:BeamCiniY

