

How to use EN DAQ

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For the routine start / stop

1. login to plutonium PC:
`ssh -Y daq@plutonium (PW: rcnpdaq1)`
2. type "babicon" to launch the DAQ program.
3. In the babicon program, type "wth" to make a title of the run.
4. Then, type "start" to start the run. You can stop the run by "stop"
You can test the DAQ without saving data by "nssta" command (no save start).
5. The raw data (.ridf files) are stored in the `~/attpcdata` directory.

```
daq@plutonium:~  
daq@plutonium:~/daqconfig/v7768/at... %1 quser@nihonium: ~/exp/attpc/enana (... %2 daq@plutonium:~ (ssh) %3 +  
DBHost :  
DBName :  
DBUser :  
DBPass : *****  
UDP Client list  
ID : HOSTNAME  
0 : plutonium (SHMID = 0)  
1 : lawrencium (SHMID = 0)  
2 : californium (SHMID = 0)  
3 : 192.168.253.130 (SHMID = 0)  
localhost> wth  
Header : test  
localhost> nssta  
Run information  
Run name : run  
Run number : 218  
Run status : NSSTA  
Start date : 15-Jun-25 22:15:36  
Header : test  
localhost> stop  
Run information  
Run name : run  
Run number : 218  
Run status : IDLE  
Start date : 15-Jun-25 22:15:36  
Stop date : 15-Jun-25 22:15:37  
Header : test  
Ender :  
Last event number  
EFN Nickname EVTN  
16 v7768-2 1220  
localhost>
```

How to change the trigger logic

1. Access to this page: <http://plutonium/~daq/webutil/GWTSDGTO/>
(From RCNP network only)
2. Press the “unlock” button and then choose the trigger inputs in the left column.
3. Press the “save” button.
4. Press the “unlock” button.
5. Note that **only “busy1” should be selected in the right column.**
Never change this!!!

SDGTO11 (gto)

DAQ stopAuto refresh

UnlockTest LED

AT-TPC mesh	1	9	Busy 1
F2-Si F3-Si	2	10	Busy 2
F2 UD PPAC	3	11	Busy 3
F3 UD PPAC	4	12	Busy 4
F2PL	5	13	Bury 5
F3PL	6	14	Busy 6
	7	15	Busy 7
1kHz clock	8	16	Busy 8
		17	Busy 9
Check Busy		18	Busy 10
Monitor		19	Busy 11
Veto OR ▼		20	Busy 12
Veto OR ▼		21	Busy 13
		22	Busy 14
		23	Busy 15
Save		24	Busy 16named
Reset			

Initialization of the V1190 TDC module

When you reboot the VME crate, you must initialize the TDC module by following procedure:

1. From the plutonium PC, login to the VME controller by
ssh root@v7768-2 (PW: rtlinux)
2. cd /home/daq/daqconfig/v7768/attpc/init/
3. ./v1190ini.sh

Troubleshooting

In case the DAQ seems to not working, please restart the DAQ processes:

1. Open the DAQ process manager page: <http://plutonium/~daq/webutil/babipm.php>
(From RCNP network only)
2. Kill all of the processes on DAQ and V7768-2
3. On the DAQ column, start the processes “babinfo” → “babild” → “babissm” → “babian”
4. On the V7768-2 column, start the process “babies”
5. In the babicon prompt, type “esconnect 16”
6. Then you should be able to run the DAQ.

babirl DAQ Process Manager

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☐ all ☒ daq ☒ v7768-2

Refresh

Timeout

5

s

Server = daq

Server = v7768-2

Process	PID	Command	Option	EFN
babinfo	3520	KILL		
babild	3526	KILL		
babies	----	RUN	-I v	1
babissm	3533	KILL		
babian	6334	KILL		
babiau	----		-It v	1

REBOOT HALT INIT

Process	PID	Command	Option	EFN
babinfo	----	RUN		
babild	----		-I v	16
babies	898	KILL		
babissm	----	RUN		
babian	----	RUN		
babiau	----	RUN	-It v	16

REBOOT HALT INIT

Refresh

If you still have a problem, don't hesitate to call me.