DAQの操作手順 ver. 0.1

R. Yonamine

1. Control PCとDAQ PCを起動する。

2. L.V.電源を、RCU,FECの順に入れる。

(専用の電源を作って、スイッチーつで同時に起動するのも可) RCUには、4.3V,3.3VFECには、2.5V,3.3V,3.8Vの電圧を与える必要がある。 Lundでは、テスト用に5つの電源を用意してそれぞれの電流をチェックしていた。

3. NIMモジュールの電源を入れる。

4. Control PCにログインする。 Lundでは username: ilcdaq



~/bin/にstartdaq-4.0, startmon-4.0などのスクリプトを置き、PATHを通しているので、どこからでも呼べるようになっている。

SCRIPT	Run comment (max 240 characte	ers):		
SCRIPT	•	111		
Status	[2008-12-01 10:03:40] Powe [2008-12-01 10:03:42] SRV:	ering off *POW S0 1 RCU0 2 P0 0 S1 1 RCU1 4	40000 P1 0 S2 2 RCU2 0 P2 0 S	53 2 RCU3
Run stopped	[2008-12-01 10:01:13] SRV: [2008-12-01 10:03:14] Stop [2008-12-01 10:03:14] SRV:	*STATUS DAQ 1 RUN 0 LOG 0 MON 1 ping DAQ *STATUS DAQ 0 RUN 0 LOG 0 MON 1	. EVT 13213 TYPE 0 MODE 1 RU . EVT 13213 TYPE 0 MODE 1 RU	JNNB 338: JNNB 338:=
Pause	[2008-12-01 10:00:08] SRV: [2008-12-01 10:01:08] SRV: [2008-12-01 10:01:13] Stop	*UPD EVT 12198 *UPD EVT 13133 ping run		
Start run	[2008-12-01 09:57:08] SRV: [2008-12-01 09:58:08] SRV: [2008-12-01 09:59:08] SRV:	*UPD EVT 10327 *UPD EVT 11262		
DAQ stopped	[2008-12-01 09:55:08] SRV: [2008-12-01 09:55:08] SRV: [2008-12-01 09:56:08] SRV: [2008-12-01 09:56:08] SRV:	*UPD EVT 7520 *UPD EVT 8455 *UPD EVT 9391		
Start DAQ	[2008-12-01 09:52:08] SRV: [2008-12-01 09:53:08] SRV: [2008-12-01 09:54:08] SPV:	*UPD EVI 4/12 *UPD EVI 5648 *UPD EVI 6584		-





Polarity Shutdown Preamp enable 3 Gain 7 Shaper 2,500 Decay time PeaLoad

RCU0 RCU2

Power setting:

PCA setting

0 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293081

008-12-01 09:52:08] 5KV:*0PD EVT [2008-12-01 09:53:08] SRV:*UPD EVT 5648 Start DAQ [2008-12-01 09:54:08] SRV:*UPD EVT 6584 [2008-12-01 09:55:08] SRV:*UPD EVT 7520 2008-12-01 09:56:081 SRV:*UPD EVT 8455 2008-12-01 09:57:081 SRV:*UPD EVT 9391 2008-12-01 09:58:081 SRV *UPD EVT 1032 [2008-12-01 09:59:08] SRV:*UPD EVT 11262 [2008-12-01 10:00:08] SRV: *UPD EVT 12198 [2008-12-01 10:01:08] SRV: *UPD EVT 13133 [2008-12-01 10:01:13] Stopping run 2008-12-01 10:01:13] SRV:*STATUS DAO 1 RUN 0 LOG 0 MON 1 EVT 13213 TYPE 0 MODE 1 RUNNE 338 [2008-12-01 10:03:14] Stopping DAO 2008-12-01 10:03:14] SRV:*STATUS DAO 0 RUN 0 LOG 0 MON 1 EVT 13213 TYPE 0 MODE 1 RUNNB 338 [2008-12-01 10:03:40] Powering off 2008-12-01 10:03:42] SRV:*POW S0 1 RCU0 2 P0 0 S1 1 RCU1 440000 P1 0 S2 2 RCU2 0 P2 0 S3 2 RCU3 Status SCRIPT Run comment (max 240 characters Events: 13213 Run:3382 [2008-12-01 09:47:06] Exit --- Write run comment Physics Test Run type: Pedestals Run mode Logging Pedestal ead events Monito Power settings 1 2 3 4 5 6 7 8 9 101112131415161718190 1 2 3 4 5 6 7 8 9 1011233415671819202122232425262728293081 RCHO RCU1 RCU RCU2 Shutdown Preamp enable 3 Gain 7 Shaper 2,500 Decay time 12008-12-01 03:24:0812KAL/0KD FA1 928-[2008-12-01 09:55:08] SRV:*UPD EVT 7520 [2008-12-01 09:56:08] SRV:*UPD EVT 8455 [2008-12-01 09:57:08] SRV: *UPD EVT 9391 [2008-12-01 09:58:08] SRV: *UPD EVT 1032] [2008-12-01 09:59:08] SRV:*UPD EVT 11262 [2008-12-01 10:00:08] SRV:*UPD EVT 12198 [2008-12-01 10:01:08] SRV:*UPD EVT 13133 [2008-12-01 10:01:13] Stopping run 12008-12-01 10:01 1315RV *STATUS DAO 1 RUN 01:0G 0 MON 1 EVT 13213 TYPE 0 MODE 1 RUNNE 338 [2008-12-01 10:03:14] Stopping DAO 2008-12-01 10:03:14] SRV:*STATUS DAO 0 RUN 0 LOG 0 MON 1 EVT 13213 T [2008-12-01 10:03:40] Powering off. [2008-12-01 10:03:42] SRV:*POW S0 1 RCU0 2 P0 0 S1 1 RCU1 440000 P1 0 S2 2 RCU2 0 P2 [2008-12-01 10:05:15] Powering on. [2008-12-01 10:05:16] SRV:*POW S0 1 RCU0 2 P0 0 S1 0 RCU1 440000 P1 440000 S2 2 RCU2 0 P2 Status SCRIPT Run comment (max 240 characters) Events: 13213 Run:3382 [2008-12-01 09:47:06] Exit --- Write run comment -🔾 Test Run type:) Pedestals Run mode Logging lestal subtractio Zero sunnressior lead events Monito -

1. FECの電源を入れる。

PCAの設定する。 ロードする。 RunModeを選択する。

PedestalRunのときは、~1000イベント程度に設定する。 Pedestal SubtractionやZero Suppressionを使うためには、 /export1/ilcdaq/root/pedestal/にできる pedestal-<Run#>-<RCU#>.newというファイルを DAQ-PCの/misc/ilcdaq/config-v4.0/に置き pedestals-1.datとしてリンクする。 (In -s pedestal-<Run#>-<RCU#>.new pedestals-1.dat)

↑但し、いずれ自動化される可能性あり

5. Start DAQボタンを押す。

0 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728298081	0 23455	7 8 9 100 11 21 31 41 51 61 71 81 92	02122232425262728298081
RCU0			RCU1
RCU2			RCU3

PCA settings

Run mode:

Monitor

Power settings

Polarity Shutdown Preamp enable 3 Gain 7 Shaper 2,500 Decay time Pcal val

	[2008-12-01 10:03:14] Stopping DAO	DAQ I KUN U LOG U MOIN .	LEVI 15215 TYPE 0 MODE I RUNNE 5:	56.
DAQ ALLIVE	[2008-12-01 10:03:14] SRV:*STATUS	DAQ 0 RUN 0 LOG 0 MON 1	LEVT 13213 TYPE 0 MODE 1 RUNNE 3	38:
Stop DAG	[2008-12-01 10:03:40] Powering off		40000 81 0 52 2 87112 0 82 0 52 2 871	113
Stop DAQ	[2008-12-01 10:05:42] SKV: FOW S0 [2008-12-01 10:05:15] Powering on	1 KC00 2 F0 0 51 1 KC01 4	H0000 F1 0 52 2 RC02 0 F2 0 55 2 RC0	05
M	[2008-12-01 10:05:16] SRV:*POW S0	1 RCU0 2 P0 0 S1 0 RCU1 4	140000 P1 440000 S2 2 RCU2 0 P2 0 S	32
ΣΖ	[2008-12-01 10:06:21] Loading Pca [2008-12-01 10:06:23] SRV *PCA SR 1	*PCA SR 190 DAC 2500		
	[2008-12-01 10:07:01] Starting DAQ	Die 2000 Brat o		
Pause	[2008-12-01 10:07:01] *START CONT	ROL 1 MODE 1 TYPE 0	EUT 12012 TUDE O MODE 1 DUNNE 2	201
	[2008-12-01 10:07:21] SRV:*STATUS	DAQ I RUN U LOG U MON . rer status	LEVI 13213 I YPE 0 MODE I RUNNE 3:	58
Run stopped	[2008-12-01 10:07:21] SRV:*POW S0	1 RCUO 2 PO O S1 O RCU1 4	40000 P1 440000 S2 2 RCU2 0 P2 0 S	32_
	[2008-12-01 10:07:21] Retrieving PCA	settings		-
Status		Die 2000 Blat o		•
	1	II		•
SCRIPT	Burn comment (may 240 share stard)			
	Run comment (max 240 characters):			
nts: 13213				_
in:3382				_
08-12-01 09:47:06]				
Exit		Write run comment		
		the contraction		
n type:	Physics	O Pedestals	O Test	
n mode:	Pedestal subtraction	Zero suppression	Logging	_
	Monitor	1 Read events	~	0
0 1 2 3 4 5 6 7 8 9 10112	3419678201/2245572561 0123	978910112341507890223	RCU1 PowOn PowOf	r
012345678910112	24 9 9 7 9 900/2272707787890 111111111111111111111111111111111111	.78310112341587828222	RCU3 RCU1 Powor Powor	
CA settings	241997/9 2002/27/27/27/27/27/27/27/27/27/27/27/27/27	. 7 8 9 10 11 2 3 4 5 6 7 8 9 00 1223	RCU1 Powon Powor	
OWER SECLINGS 0.1.2.3.4.5.6.7.8.9.10112 0.1.2.3.4.5.6.7.8.9.10112 0.1.2.3.4.5.6.7.8.9.10112 CA settings ✓ Polarity □ Shutdo	2419978 20122220 0072290 		Pealond	1
over settings	3419978 20122220 56729200 		Peal.ond	
012345670910112 CA settings ✔ Polarity Shutdo	3419878 2002222000728200 0.1251 111111111111111111111111111111111111	er 2,500 Decay time	Pealond	
Over settings 0 1 2 3 4 5 6 7 8 9 10112 CA settings ✓ Polarity Shutdo DAQ Atlive	2498789800222205878980 0.125.7 111111111111111111111111111111111111	er 2,500 - Decay time er 3,500 - Decay time er status 1 RCU0 2 P0 0 51 0 RCU1 4	Postoria 40000 P1 440000 52 2 RCU2 0 P2 0 53	3 2
CA settings	13878 800122742967782801 0.12547 11111111111111111 RCU0 RCU2 RCU2 wn Preamp enable 3	er 2,500 - Decay time er 3.500 - Decay time er status 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0	Postored 400000 P1 4400000 S2 2 RCU2 0 P2 0 S3	3 2
CA settings	3413978 2002222€5672029681 0123-3 RCU2 RCU2 RCU3 RCU2 RCU3 RCU2 RCU3 RCU2 RCU3 RCU2 RCU3 RCU3 RCU3 RCU3 RCU3 RCU3 RCU3 RCU3 RCU3 RCU3	er 2,500 Decay time er 2,500 Decay time er status 1 RCU0 2 P0 0 S1 0 RCU1 4 .settings 20 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1	RCUI Rowon Rowon Rcu3 Rcu3 Rowon Postord Rcu3 Rcu3	3 2 •
Over settings 0 2 3 4 5 6 7 6 9 1 11 2 CA settings ☑ Polarity Shutdo DAQ Active Stop DAQ	3453878 901222958729981 012.5.5 RCU2 RCU2 RCU2 RCU2 Wn Preamp enable 3 Gain [2008-12-01 09:46:59] SRV: "POW S0 0 12008-12-01 09:46:59] SRV: "POW S0 0 [2008-12-01 09:46:59] SRV: "POW S0 0 12008-12-01 09:46:59] SRV: "POW S0 0 [2008-12-01 09:46:59] SRV: "SVA SR 1 12008-12-01 09:47:06] SRV: "STATUS 1 [2008-12-01 09:47:06] SRV: "STATUS 1 12008-12-01 09:47:06] SRV: "STATUS 1 [2008-12-01 09:47:06] SRV: "STATUS 1 12008-12-01 09:47:06] SRV: "STATUS 1	er 2,500 → Decay time er 2,500 → Decay time er status 1 RCU0 2 P0 0 S1 0 RCU1 4 .settings 190 DAQ 1 RUN 1 LOG 0 MON 1 31	Protocol Provini Provini Protocol RCU3 Provini Provini Protocol Protocol Protocol Protocol Protocol	7 3 2
CA settings CA settings Polarity Shutdo DAQ Active Stop DAQ Runsing	345878 €01222€5872€981 01253 RCU2 01206 12008-12-01 03:46:59 Retrieving PCA [2008-12-01 03:47:06] SRV:*PCA SRI 12008-12-01 03:47:06] SRV:*PCA SRI [2008-12-01 03:47:06] SRV:*TATUE SVI 12008-12-01 03:47:06] SRV:*UPE SVI [2008-12-01 03:47:06] SRV:*UPE SVI 12008-12-01 03:47:06] SRV:*UPE SVI	er 2,500 Decay time er 2,500 Decay time rer status 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RU1 1 LOG 0 MON 1 31 968 1904	Protont Protont Protont Protont RCU1 Protont Protont Protont RCU3 Protont Protont	3 2 •
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CA settings CA settings CA settings Polarity Shutdo DAQ Active Stop DAQ Pause Stop run	3453878 €€1222€5€722€€81 012.5.* RCU2 RCU2 RC08 RCV <	er 2,500 → Decay time er 2,500 → Decay time er status 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 368 1904 2840 3776 4712 5648 6584	Protocol Provini Provini Protocol RCU3 Provini Provini Protocol Protocol Protocol Provini Protocol Protocol Protocol Protocol Pro	3 2 A
CA settings CA settings CA settings Polarity □ Shutdo OAQ Active Stop DAQ Ritmoting Pause Stop run	1413878 €01222€25€272€901 01255 RCU2 01757 RCU2 0175757 RCU2 0175757 RCU2 0175757 RCU2 0175757 RCU3 RCU2 RCU3 RCU2 RCU3 RCU2 RCU3 RCU3 RCU3 RCU3 RCU3	er 2,500 Decay time er 2,500 Decay time er 5tatus 1 RCU0 2 PO 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 968 1904 2840 3776 4712 5648 6584 7520	Protont Protont Protont Protont RCU1 Protont Protont Protont RCU3 Protont Protont 400000 P1 4400000 S2 2 RCU2 0 P2 0 S5 P2 0 MODE 1 RUNNB 3382 EF P2 0 MODE 1 RUNNB 3382 EF	3 2
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Over settings 0 2 3 4 5 6 7 6 9 10112 CA settings ☑ Polarity □ Shutdo DAQ Atthe Stop DAQ Running Pause Stop run Status SCRIPT	3433783200222225587282980 0123** RCU2 RCU2	er 2,500 Decay time er 2,500 Decay time er status 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 10 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 31 968 1304 2840 3776 4712 5648 6584 6584 6584 7520 8455	Postgrad RCU1 Postgrad Postgrad 400000 P1 4400000 52 2 RCU2 0 P2 0 53 EVT 0 TYPE 0 MODE 1 RUNNE 3362 EI 	3 2 *
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01 2 3 4 5 6 7 6 9 1 (11) 2 CA settings	343874 €01222€58272€60 01234 RCU2 01744 Reversion 02084 Reversion 02084 20084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 12-01094 120084 <td>er 2,500 → Decay time er 2,500 → Decay time r 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 31 968 1904 2840 3776 4712 5648 6584 7520 8455</td> <td>Protocol Protocol 111111 RCU1 Protocol 111111 RCU3 Protocol</td> <td>RR</td>	er 2,500 → Decay time er 2,500 → Decay time r 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 31 968 1904 2840 3776 4712 5648 6584 7520 8455	Protocol Protocol 111111 RCU1 Protocol 111111 RCU3 Protocol	RR
CA settings CA set	343874 901222958272990 01233 RCU2 01749 Retrievelop 01759 Retrievelop 0194659 Retrievelop 0194706 Retrievelop 0194706 Retrievelop 0194706 Retrievelop 0194706 Retrievelop 0194706 Retrievelop 0194706	er 2,500 → Decay time er 2,500 → Decay time r 2,500 → Decay time r 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 31 968 1904 2840 3776 4712 5648 6584 7520 8455	Protocol Protocol 400000 P1 4400000 S2 2 RCU2 0 P2 0 S5 EVT 0 TYPE 0 MODE 1 RUNNE 3382 EI	
A settings	343874 €01222€58272€60 01253 RCU2 80174 Retrievelop 80174	er 2,500 → Decay time er 2,500 → Decay time er 5tatus 1 RCU0 2 P0 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 968 1904 2840 3776 4712 5648 6584 7520 8455 //	RCU1 RCU1 Protocol Frational RCU3 Protocol 400000 P1 440000 S2 2 RCU2 0 P2 0 S5 EVT 0 TYPE 0 MODE 1 RUNNB 3382 EI	
23 4 5 6 7 6 9 10112 4 settings Polarity Stop DAQ Running Pause Stop run Status		er 2,500 Decay time er 2,500 Decay time r 2,500 Decay time r 1 RCU0 2 PO 0 S1 0 RCU1 4 settings 190 DAC 2500 ERR 0 DAQ 1 RUN 1 LOG 0 MON 1 968 1904 2840 3776 4712 5648 6584 7520 8455 m Write run comment	Protocol Protocol Protocol 400000 P1 440000 S2 2 RCU2 0 P2 0 S2 EVT 0 TYPE 0 MODE 1 RUNNB 3382 EI	

1 Read events

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6. Start runボタンを押す。

終了時は、逆順にStop ボタンを押していく。

Monitorウィンドウ



各チャンネルごとの信号を見れる。

