

Trigger Slow Control



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Sub-TRG	RC*	Archiver	Conf. DB	Ready sig.**	Person in charge
GDL	O	O	O	O	T. Koga & H. Nakazawa
GRL/CDC	O	O	O	O	Y. T. Lai
ECL	O	O	O	O	E. J. Jang & C. H. Kim
TOP	X	X	X	X	Savinov Vladimir
KLM	O	O	O	△	D. Liventsev
Neuro	X	X	X	X	S. Skambraks & T. Koga

* included in RC scheme

** Providing a ready signal and integrated in TRG ready signal.

[General]

- GDL, GRL/CDC, and ECL are included in TRG RC and we have experienced some problems during Phase III.
- Many of them are solved and TRG SLC has been stabilized, but some more update is required for TRG expert shifts to easily operate.
- TRG simple(just based on CSS GUI) alarm was once applied, not that well operated..

[Solved]

- nsmd2 updated for the comparability with the latest daq_slc version

```
[b2trg@btrgsrv1 ~]$ nsmd2 --version
NSMD2 - network shared memory daemon version 1.9.97 (required version 1.9.97)
```

```
[b2ecltrg@btrgctr0 srvslc] nsmd2 --version
NSMD2 - network shared memory daemon version 1.9.97 (required version 1.9.97)
```

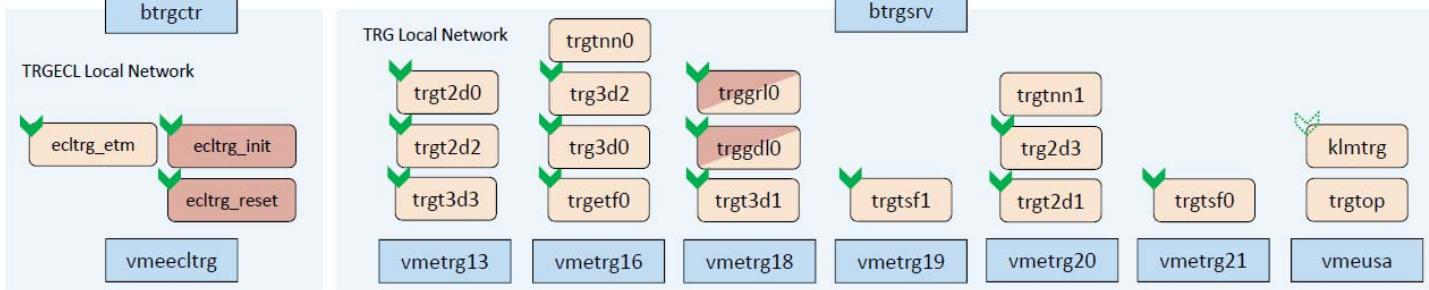
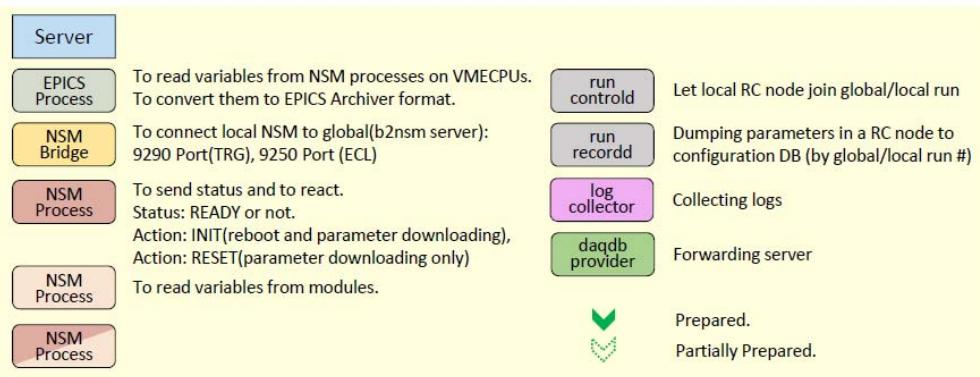
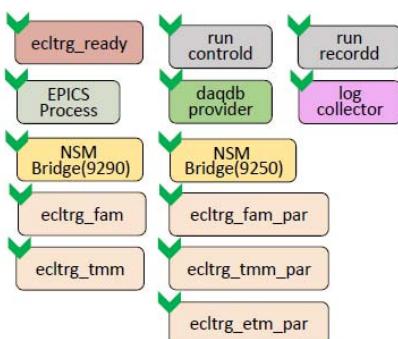
- Experimental parameter recording by run
 - Sometimes not recorded well due to the daqdbprovider process
 - Solved after applying Mikhail's pull-request (#130: Bugfix/daqdbprovider thread safety)
- KLM TRG is included in TRG RC scheme during phase III

[Under consideration]

- TOP TRG
- Initialization via SLC TRG main panel
 - TRG experts are frequently confused.
- Configuration DB to Condition DB conversion
 - **It seems there is no official way** to convert
- **GIT / cvmfs** related: not much progress
 - (almost) No TRG related codes on the central GIT repository
- Integration TRG SLC **restart script** with DAQ script (?): Should this be done?

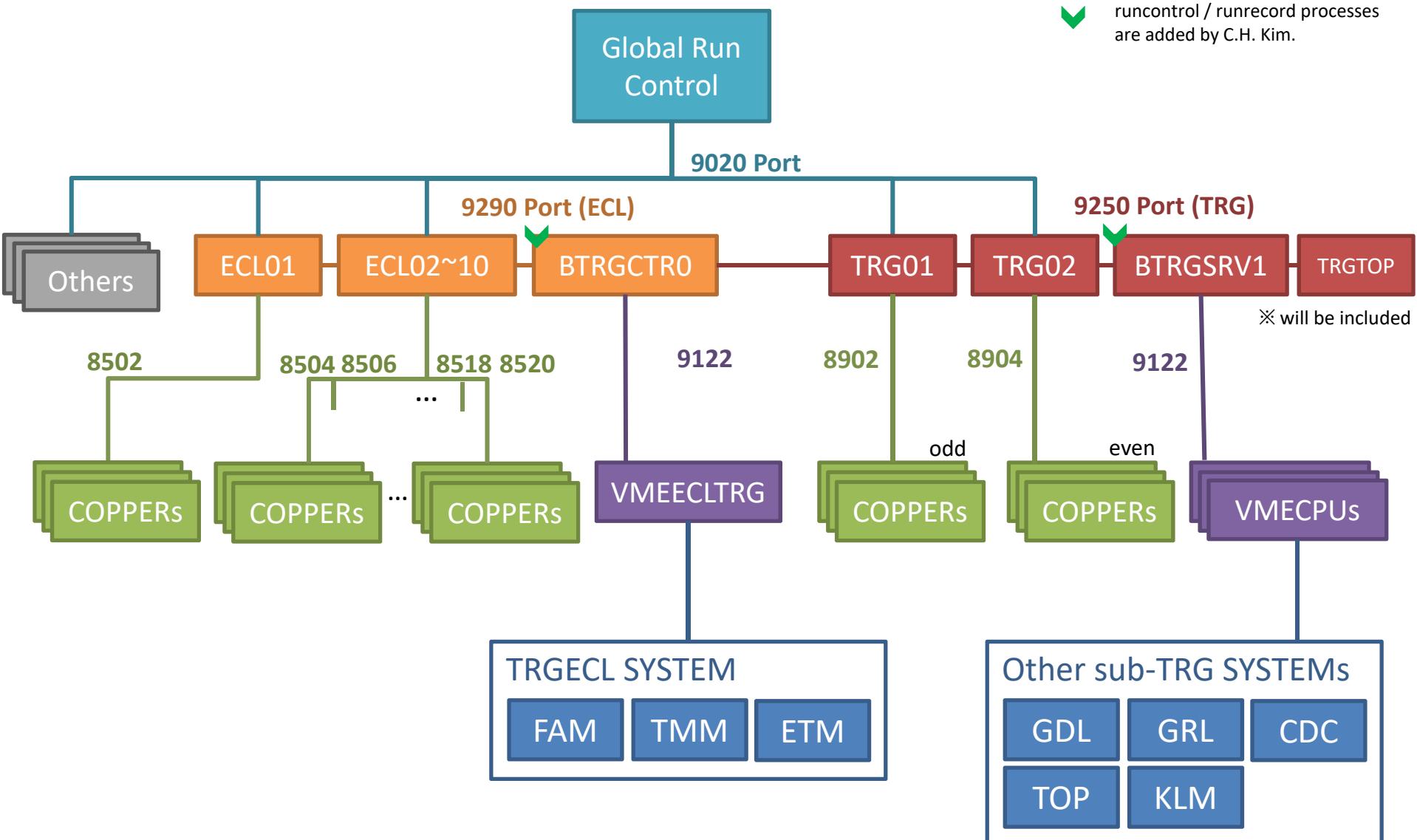
TRG SLC & RC & Archiver & Conf. DB

[Update log]
 2019/06/17: New nodes, logcollectord (CHK)
 2019/02/03 : status updated, partially prepared, person in charge, etc (CHK).
 2018/11/21 : runcontrold, runrecordd (CHK)
 2018/10/15 : TRGECL added (CHK)
 2018/10/05 : SC added (YI)
 2018/10/04 : Second version (YI)
 2018/10/04 : First version (YI)



Due to the way how TOP TRG operate, the trgtop server should have same structure as btrgctr / btrgsrv.
 Not just add a node on vmeusa (full SLC setting on trgtop server is necessary).

Run control structure



TRG slow control restart script (btrgsrv)

slcctr check / reboot / kill/ recover

```
[b2trg@btrgsrv1 ~]$ slcctr check

#####
##### [ TRIGGER SLOW CONTROL SCRIPT ] #####
#####     except TRGECL #####
#####

#####
##### The svrlc control script #####
#####

>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122 is well running.

>> Global NSM related
[ Normal ] Global NSM port 9020 is well running. // For connection to CR server
[ Normal ] Global NSM port 9290 is well running. // For connection to TRG

>> NSM bridges
[ Normal ] nsmbridge(9122=>9020) is well running. // For connection to CR server ( GBTRGSRV )
[ Normal ] nsmbridge(9122=>9290) is well running! // For connection to TRG ( BBTRGSRV )

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> Recording parameters on configuration DB: btrgsrv1 as provider for VMEs
[ Normal ] daqdbprovider process is well running.

>> Send local log to the central log ( b2db/logdaq ).
[ Normal ] logcollector process is well running.

>> Related to Runcontrol
[ Normal ] RUNCONTORLD precess is well running. // RCBTRGSRV
[ Normal ] RUNRECORD precess is well running. // RECORDSRV

>> NSM nodes Related to TRG/ECLTRG readiness
[ TIMEOUT ] TRG_READY process is timed out!! ==> Try recover or qsol

>> For displaying and editing TRG expert shift information
[ Normal ] TRG_EXPERT process is well running.
```

```
#####
##### The vmetrg13 control script #####
#####

>> check option is selected.

>> Local NSM related
[ Error ] Local NSM port 9122 is not running!

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> TRG NSM nodes on vmetrg13
[ Normal ] TRGT2D0 process is well running.
[ Normal ] TRGT2D2 process is well running.
[ Normal ] TRGT3D3 process is well running.

#####
##### The vmetrg16 control script #####
#####

>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122 is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> TRG NSM nodes on vmetrg16
[ Normal ] TRGETF0 process is well running.
[ Normal ] TRGT3D0 process is well running.
[ Normal ] TRGT3D2 process is well running.

#####
##### The vmetrg18 control script #####
#####

>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122 is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> TRG NSM nodes on vmetrg18
[ Normal ] TRGGDL process is well running.
[ Normal ] TRGGRRL process is well running.
[ Normal ] TRGT3D1 process is well running.
```

TRG slow control restart script (btrgsrv)

```
##### ##### ##### ##### ##### ##### ##### #####
#####      The vmetrg19 control script      #####
##### ##### ##### ##### ##### ##### #####
>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122      is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090      is well running.

>> TRG NSM nodes on vmetrg19
[ Normal ] TRGTSF1      process      is well running.

##### ##### ##### ##### ##### ##### #####
#####      The vmetrg20 control script      #####
##### ##### ##### ##### ##### ##### #####
>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122      is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090      is well running.

>> TRG NSM nodes on vmetrg20
[ Normal ] TRGT2D1      process      is well running.
[ Normal ] TRGT2D3      process      is well running.
```

```
##### ##### ##### ##### ##### ##### #####
#####      The vmetrg21 control script      #####
##### ##### ##### ##### ##### ##### #####
>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122      is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090      is well running.

>> TRG NSM nodes on vmetrg21
[ Normal ] TRGTSF0      process      is well running.

##### ##### ##### ##### ##### ##### #####
#####      The vmeusa control script      #####
##### ##### ##### ##### ##### ##### #####
>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122      is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090      is well running.

>> TRG NSM nodes on vmeusa
[ Normal ] KLMTRG      process      is well running.

##### ##### ##### ##### ##### ##### #####
#####      EPICS process control (btrgsrv)  #####
##### ##### ##### ##### ##### ##### #####
>> check option is selected.

[ Normal ] EPICS(nsm2cad)  process is well running.
```

TRG slow control restart script (btrgctrl)

```
[b2ecltrg@btrgctr0 srvslc] slcctr check

#####
##### The btrgctr SLC control script #####
#####

>> check option is selected.

>> Local NSM related
[ Normal ] Local NSM port 9122 is well running.

>> Global NSM related
[ Normal ] Global NSM port 9020 is well running. // For connection to CR server
[ Normal ] Global NSM port 9290 is well running. // For connection to TRG
[ Normal ] Global NSM port 9250 is well running. // For connection to ECL

>> NSM bridge
[ Normal ] nsmbridge(9122=>9020) is well running. // For connection to CR server ( GECLTRG )
[ Normal ] nsmbridge(9122=>9290) is well running. // For connection to TRG ( BBTRGCTR )
[ Normal ] nsmbridge(9122=>9250) is well running. // For connection to ECL ( BECLTRG )

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> Recording parameters on configuration DB: btrgctr as provider for vmeecltrg
[ Normal ] daqdbprovider process is well running.

>> Send local log to the central log ( b2db/logdaq ).
[ Normal ] logcollector process is well running.

>> Related to Runcontrol
[ Normal ] RUNCONTROL node is well running. // RCECLTRG
[ Normal ] RUNRECORD node is well running. // RECORDCTR

>> Related to EPICS and Archiving
[ Normal ] EPICS process is well running.

>> ECLTRG system readiness
[ Normal ] ECLTRG_READY node is well running.

>> ECLTRG NSM nodes on btrgctr
[ Normal ] ECLTRG_FAM node is well running.
[ Error ] ECLTRG_FAM NOI node is not running!
[ Normal ] ECLTRG_FAM_PAR node is well running.
[ Normal ] ECLTRG_TMM node is well running.
[ Normal ] ECLTRG_TMM_PAR node is well running.
[ Info ] ECLTRG_ETM node is on vmeecltrg. // Check ECLTRG_ETM on vmeecltrg server.
[ Normal ] ECLTRG_ETM_PAR node is well running.

>> Nodes for special purpose on btrgctr
[ Normal ] ECLMODE node is well running.
```

```
#####
##### The vmeecltrg SLC control script #####
#####

>> check option is selected.

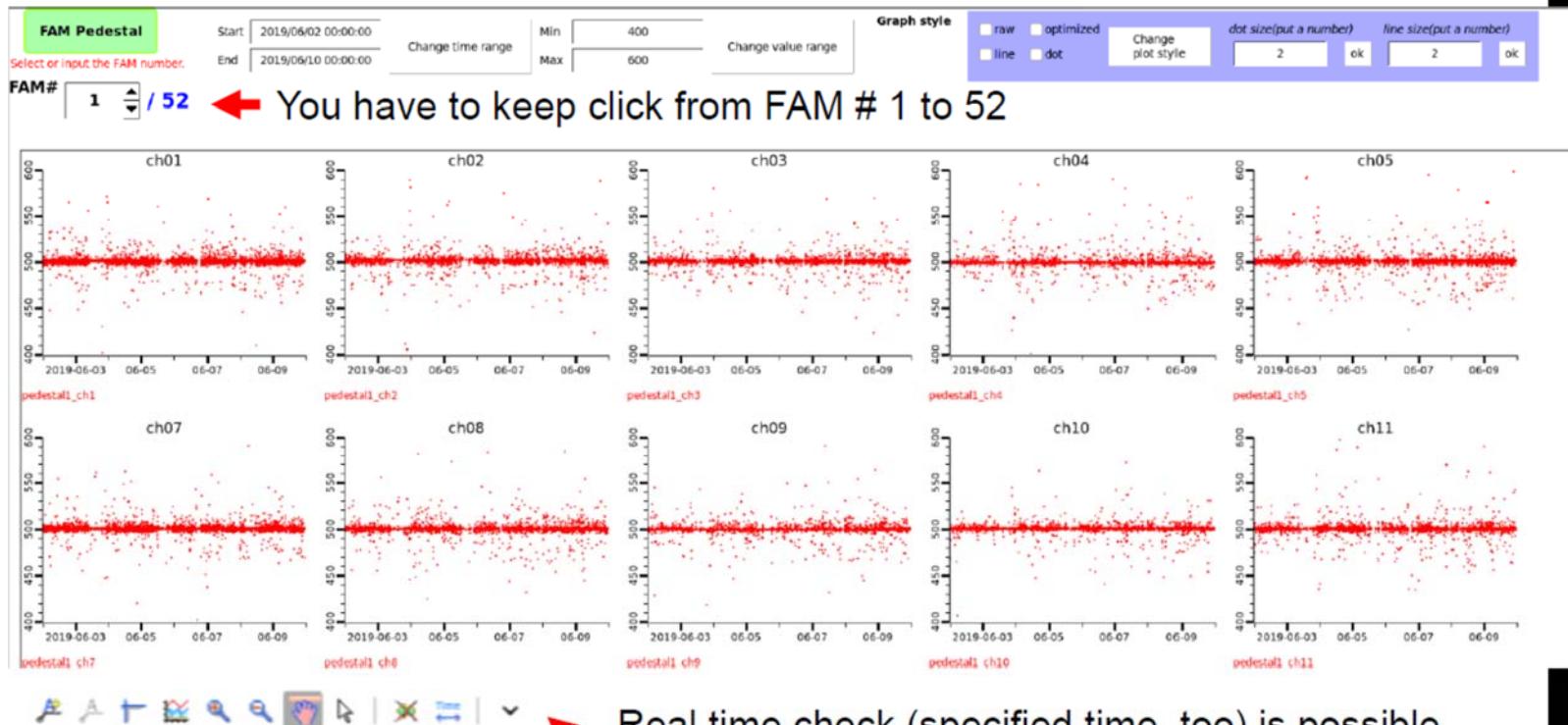
>> Local NSM related
[ Normal ] Local NSM port 9122 is well running.

>> NSM socket for CS-studio(GUI)
[ Normal ] nsm2socket port 9090 is well running.

>> ECLTRG NSM nodes on vmeecltrg
[ Normal ] ECLTRG_ETM NSM node is well running.
[ Normal ] ECLTRG_LUM NSM node is well running.
[ Normal ] ECLTRG_INIT NSM node is well running.
[ Normal ] ECLTRG_RESET NSM node is well running.
```

ARCHIVER BASED MONITORING PROGRAMS

GUI BASED SLC MONITORING



Real time check (specified time, too) is possible
also more detail check is possible using those tools.

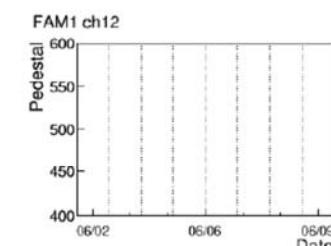
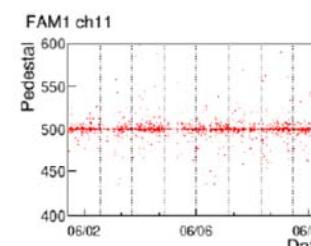
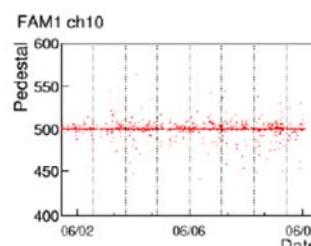
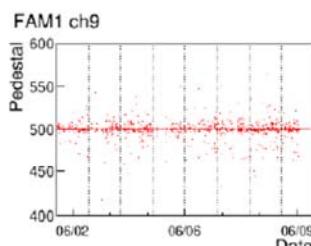
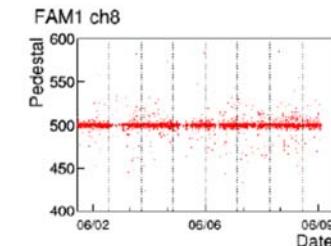
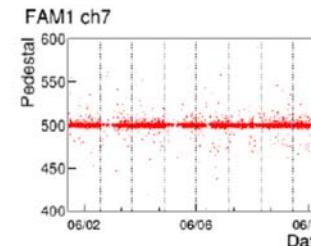
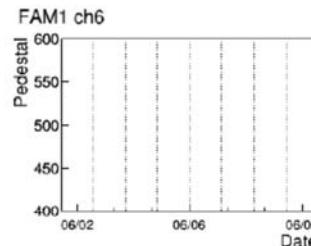
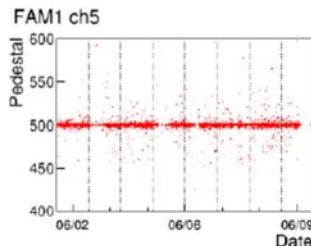
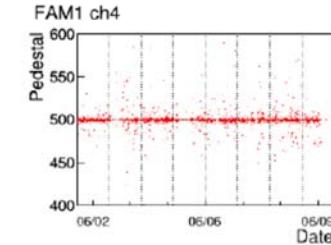
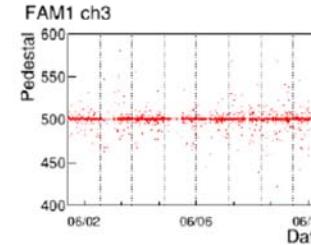
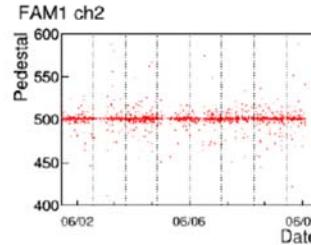
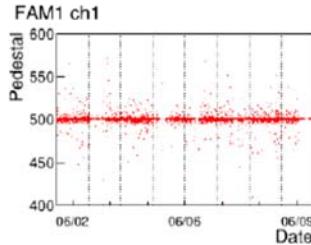
2019-08-27

Depending on server condition, sometimes it is too slow.

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※ From Eunji's slide

CUI BASED MONITORING(MONARCH)



Based on Seokhee's code for extracting archived data.

The code is on the Confluence page

(<https://confluence.desy.de/display/BI/ECLTRG+Monitoring+with+Archived+Data>)

Sungjin's code would be helpful for updating this monitoring program.

2019-08-27



※ From Eunji's slide

- TRG rebooting script
 - Make it easier (including initialization)
 - Integrating scripts on btrgctr and btrgsrv
 - Include TRG SLC script in the Belle II whole SLC rebooting script (?)
- Add neuro related node
- TOP TRG SLC whole setting
- Version management
 - GIT / cvmfs
- TRG SLC is now on ‘usable’ level, but not that good enough.

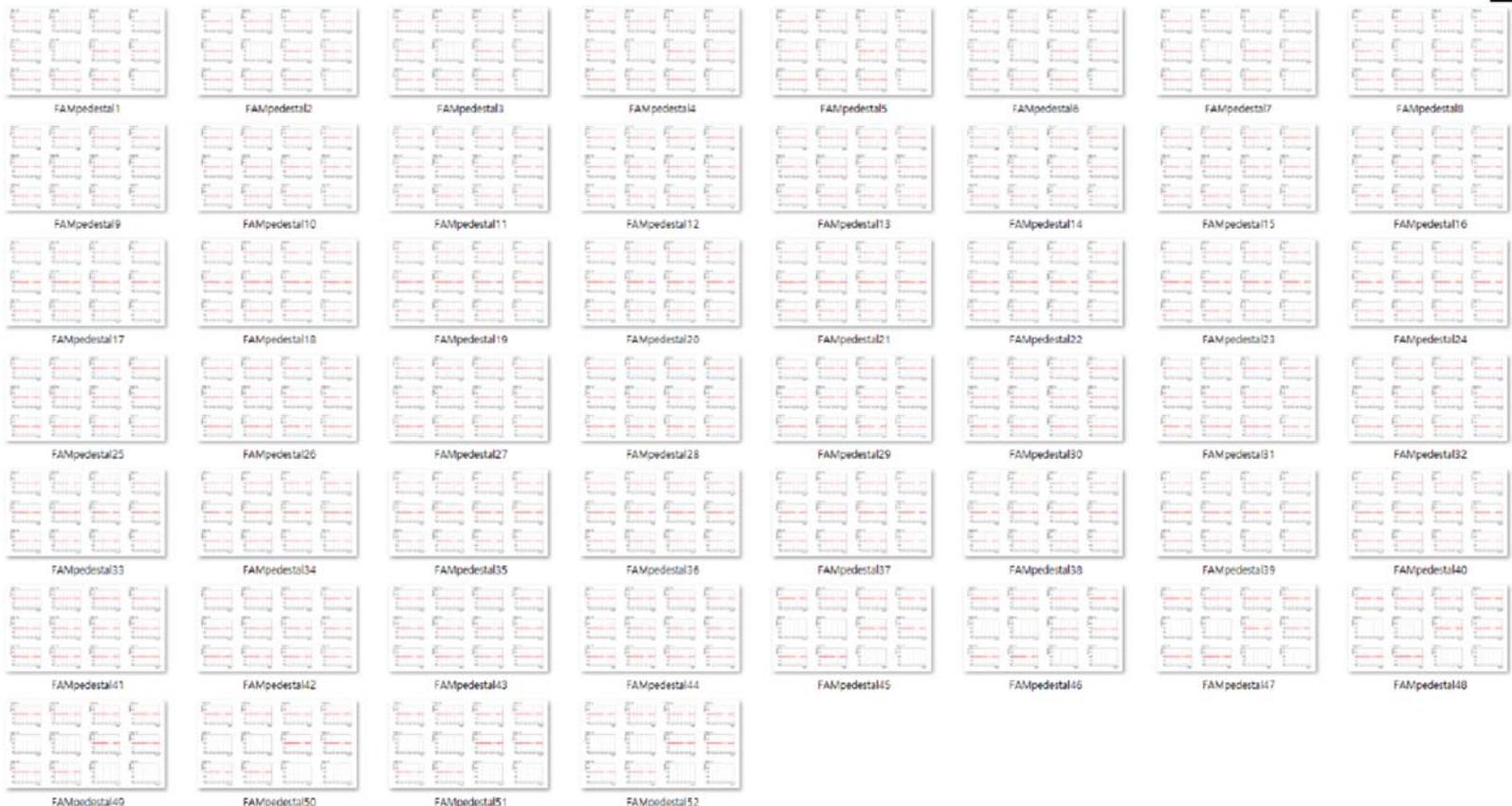
Too complicated (only for the real expert)	only for trained experts	usable	quite good	Good enough
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Backup



“We can check all 52 FAM pedestal at once.”

FAM : Hit rate / noise / pedestal / temperature
TMM : temperature



2019-08-27

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The Trigger Slow Control System Main Panel

Last updated: 190604(TUE), ver 1.2.29

For the TRG Expert Shifts! Phase III Started from 25 Mar. 2019

(1) = (2) + (3)
 (2) System Readiness: Parameter, links, temperature, etc.
 (3) RC STATE: RC(Run Control) node status
 (4) Local / Global
 (5) Parameter Reset
 (6) System Initialization
 (7) Open Sub-trigger detail panel

(1)	(2)	(3)	(4)	(5)	(6)	(7)
TRG	NOTREADY	NOTREADY	Local Work	LOCAL	Reset	Init Locked

GDL	<input checked="" type="checkbox"/>	NOTREADY	NOTREADY	NOTREADY	LOCAL	Reset	Init Locked	Detail
GRL/CDC	<input checked="" type="checkbox"/>	NOTREADY	NOTREADY	NOTREADY	LOCAL	Reset	Init Locked	Detail
ECL	<input checked="" type="checkbox"/>	NOTREADY	NOTREADY	READY	LOCAL	Reset	Initialization	Detail
TOP	<input type="checkbox"/>	OFF	OFF	OFF	OFF	Reset	Init Locked	Detail
KLM	<input type="checkbox"/>	OFF	NOTREADY	NOTREADY	LOCAL	Reset	Init Locked	Detail

Global Runtype	debug	Global Runno	1997	TRG SYSTEM is in	LOCAL
Global TRGtype	poisson	Global Expno	8	ECL SYSTEM is in	LOCAL

TRG SLC processes				TRGECL SLC processes	
RCBTRGSRV	Run # : 1996	TRG Run Control		RCECLTRG	Run # : 2003
NOTREADY	TRGGDL	NOTREADY	TRGT3D0	READY	ECLTRG_FAM
LOAD	TRGGRL	NOTREADY	TRGT3D1	START	ECLTRG_TMM
ABORT	TRGT2D0	NOTREADY	TRGT3D2	ABORT	ECLTRG_ETM
BOOT	TRGT2D1	NOTREADY	TRGT3D3	BOOT	ECLTRG_FAM_PAR
	TRGT2D2	NOTREADY	TRGTSF0		ECLTRG_TMM_PAR
	TRGT2D3	NOTREADY	TRGTSF1		ECLTRG_ETM_PAR
			TRG_READY		ECLTRG_READY

Currently on Duty (The TRG expert shift)

Name	Vladimir SAVINOV	PHS	
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The Trigger Slow Control System Main Panel

Last updated: 190604(TUE), ver 1.2.29

For the TRG Expert Shifts! Phase III Started from 25 Mar. 2019

(1)	(2)	(3)	(4)	(5)	(6)	(7)	
TRG	READY	READY	RUNNING	GLOBAL	Reset	Init Locked	
GDL	READY	READY	RUNNING	GLOBAL	Reset	Init Locked	Detail
GRL/CDC	READY	READY	RUNNING	GLOBAL	Reset	Init Locked	Detail
ECL	READY	READY	RUNNING	GLOBAL	Reset	Initialization	Detail
TOP	OFF	OFF	OFF	OFF	Reset	Init Locked	Detail
KLM	OFF	NOTREADY	RUNNING	GLOBAL	Reset	Init Locked	Detail

Global Runtype: physics Global Runno: 2637 TRG SYSTEM is in: GLOBAL

Global TRGtype: gdl Global Expno: 8 ECL SYSTEM is in: GLOBAL

TRG SLC processes

RCBTRGSRV	Run # : 2637	TRGGDL	RUNNING	TRGT3D0	RUNNING	TRGETFO	RUNNING	TRG Run Control
RUNNING		TRGGRL	RUNNING	TRGT3D1	RUNNING	KLMTRG	RUNNING	
STOP		TRGT2D0	RUNNING	TRGT3D2	RUNNING	TRG_READY	RUNNING	
ABORT		TRGT2D1	RUNNING	TRGT3D3	RUNNING			
BOOT		TRGT2D2	RUNNING	TRGTSFO	RUNNING			
		TRGT2D3	RUNNING	TRGTSF1	RUNNING			

TRGECL SLC processes

RCECLTRG	Run # : 2637	ECLTRG_FAM	RUNNING
RUNNING		ECLTRG_TMM	RUNNING
STOP		ECLTRG_ETM	RUNNING
ABORT		ECLTRG_FAM_PAR	RUNNING
BOOT		ECLTRG_TMM_PAR	RUNNING
		ECLTRG_ETM_PAR	RUNNING
		ECLTRG_READY	RUNNING

Currently on Duty (The TRG expert shift)

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The Trigger Slow Control System Main Panel

Last updated: 190604(TUE), ver 1.2.29

For the CR Shifts! Phase III Started from 25 Mar. 2019

(1) = (2) + (3)
 (2) System Readiness: Parameter, links, temperature, etc.
 (3) RC STATE: RC(Run Control) node status
 (4) Local / Global

Alarm on/off

	(1)	(2)	(3)	(4)
TRG	NOTREADY	NOTREADY	Local Work	LOCAL
GDL	<input checked="" type="checkbox"/> NOTREADY	NOTREADY	NOTREADY	LOCAL
GRL/CDC	<input checked="" type="checkbox"/> NOTREADY	NOTREADY	NOTREADY	LOCAL
ECL	<input checked="" type="checkbox"/> NOTREADY	NOTREADY	READY	LOCAL
TOP	<input type="checkbox"/> OFF	OFF	OFF	OFF
KLM	<input type="checkbox"/> OFF	NOTREADY	NOTREADY	LOCAL

< What should be checked for physics run >
 Please check TRG ready(the blue emphasized) signal
 >> (NOTREADY)
 [During a run]
 You will hear cat crying sound.
 Please Click "ABORT" on the main CR panel.
 Inform the TRG expert shift.
 [Before a run]
 You cannot start a new run.
 >> (READY)
 [During a run] TRG system is fine.
 [Not during a run] A new run can be started.

Global Runtype	debug	Global Runno	2008	TRG SYSTEM is in LOCAL
Global TRGtype	poisson	Global Expno	8	ECL SYSTEM is in LOCAL

TRG SLC processes
 RCBTRGSRV Run # : 1996

NOTREADY	TRGGDL	NOTREADY	TRGT3D0	NOTREADY	TRGETF0	NOTREADY
LOAD	TRGGRL	NOTREADY	TRGT3D1	NOTREADY	KLMTRG	NOTREADY
ABORT	TRGT2D0	NOTREADY	TRGT3D2	NOTREADY	TRG_READY	NOTREADY
BOOT	TRGT2D1	NOTREADY	TRGT3D3	NOTREADY		
	TRGT2D2	NOTREADY	TRGTSF0	NOTREADY		
	TRGT2D3	NOTREADY	TRGTSF1	NOTREADY		

TRGECL SLC processes
 RCECLTRG Run # : 2003

READY	ECLTRG_FAM	READY
START	ECLTRG_TMM	READY
ABORT	ECLTRG_ETM	READY
BOOT	ECLTRG_FAM_PAR	READY
	ECLTRG_TMM_PAR	READY
	ECLTRG_ETM_PAR	READY
	ECLTRG_READY	READY

Currently on Duty (The TRG expert shift)

Name	Vladimir SAVINOV	PHS	
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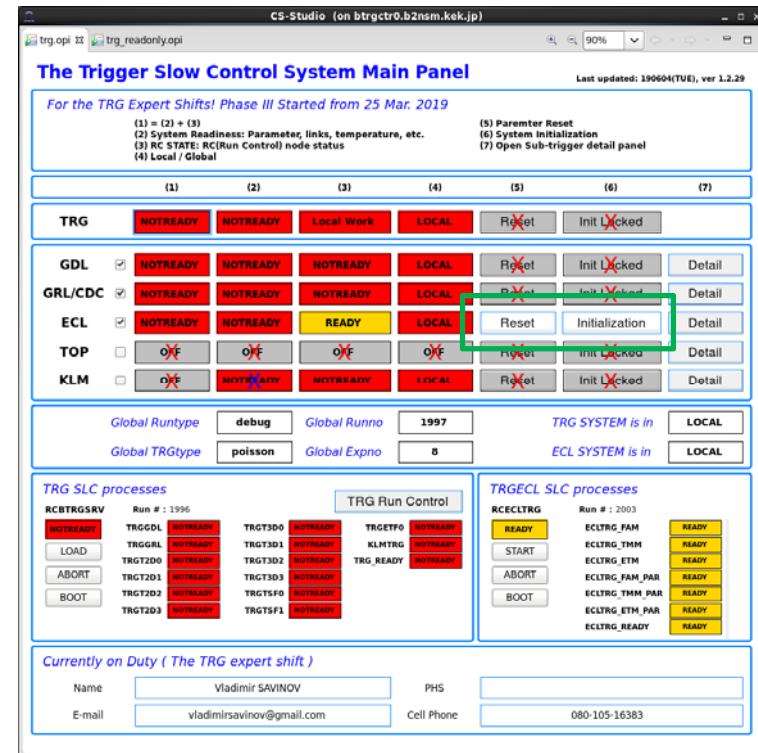
Initialization via TRG SLC main panel

< When the **SLC problem** happens >

- Because SLC itself shows problem in this case, the initialization button does not work properly (**the progress bar stucked**).
- SLC reboot with 'slcctr reboot'
- Initialization button again
- TRG(ECL) is recovered.

< When a real TRG ECL problem happens >

- Initialization / Reset works in this case
- TRG(ECL) is recovered.



- Right procedure
 - Try ‘slctr reboot(recover)’ first
 - Click the initialization button
- Unfortunately, there is no module(a code) to let expert shifts to distinguish the type of the problem, currently.
- It would be better to just have a script to initialize TRGECL, first(not through SLC would be more stable).
 - I will just deactivate the initialization button (for a while) to avoid the confusion.



TRG Local Run Control Panel

Current Global Run # 2638
 The Last Local Run # 2604
 The Last Run # 2638

RC_TRG	Run # : 2604	TRG@RC:cosmic:2...
NOTREADY	TORE_TRG	NOTREADY
LOAD	HLT_TRG	NOTREADY
ABORT	TRG	RUNNING
BOOT	TTD_TRG	NOTREADY

TRG	Run # : 2638
RUNNING	TRG01 RUNNING
STOP	TRG02 RUNNING
ABORT	BTRGSRV RUNNING
BOOT	

TRG main

FTSW #185	RUNNING	resetft	statft
Trigger type	aux	Run start at 2019-06-17 11:42:04	
Trigger limit		Run time 2312[sec]	
Dummy rate		Trigger in	1896.2 [Hz]
Max time	1997 [Hz]	Trigger out	1885.8 [Hz]
Max trig	1 [us]	Input count	4308003
		Output count	4281422

Hostname	Status	Bytes Rate [MB/s]
trg01	Label	##### 0

STORE_TRG	NOTREADY	
Run type	eb2rx	input
Event rate [Hz]	Event size [kB]	0
0	1	2
Flow rate [MB/s]	Event counter	0
0	1	2
File size [MB]	# of files	0
0	100	200

RCBTRGSRV	Run # : 2638		
RUNNING	TRGGDL RUNNING	rGT2D3 RUNNING	RGTSF0 RUNNING
STOP	TRGGRL RUNNING	rGT3D0 RUNNING	RGTSF1 RUNNING
ABORT	TRGT2D0 RUNNING	rGT3D1 RUNNING	RGETF0 RUNNING
BOOT	TRGT2D1 RUNNING	rGT3D2 RUNNING	LMTRG RUNNING
	TRGT2D2 RUNNING	rGT3D3 RUNNING	READY RUNNING

copper

TRG01

Hostname	Status	Bytes	Rate [MB/s]	HSLB-a	HSLB-b	Module
<input checked="" type="checkbox"/> cpr11001	RUNNING	RUNNING	1473659520	0.61	<input checked="" type="checkbox"/> 4276913	0 <input checked="" type="checkbox"/> 4276927 0
<input checked="" type="checkbox"/> cpr11003	RUNNING	RUNNING	1473652096	0.61	<input checked="" type="checkbox"/> 4280075	0 <input checked="" type="checkbox"/> 4280645 0
<input checked="" type="checkbox"/> cpr11005	RUNNING	RUNNING	1473652096	0.61	<input checked="" type="checkbox"/> 4276910	0 <input checked="" type="checkbox"/> 4276916 0
<input checked="" type="checkbox"/> cpr11007	RUNNING	RUNNING	1473659264	0.61	<input checked="" type="checkbox"/> 4276914	0 <input checked="" type="checkbox"/> 4276966 0
<input checked="" type="checkbox"/> cpr11009	RUNNING	RUNNING	1884915456	0.78	<input checked="" type="checkbox"/> 4276954	0 <input checked="" type="checkbox"/> 4276967 0
<input checked="" type="checkbox"/> cpr15001	RUNNING	RUNNING	11874940928	4.94	<input checked="" type="checkbox"/> 4282109	0 <input type="checkbox"/> 0 0

TRG02

Hostname	Status	Bytes	Rate [MB/s]	HSLB-a	HSLB-b	Module
<input checked="" type="checkbox"/> cpr11002	RUNNING	RUNNING	1471954048	0.62	<input checked="" type="checkbox"/> 4276884	0 <input checked="" type="checkbox"/> 4276892 0
<input checked="" type="checkbox"/> cpr11004	RUNNING	RUNNING	1471957760	0.62	<input checked="" type="checkbox"/> 4275495	0 <input checked="" type="checkbox"/> 4276081 0
<input checked="" type="checkbox"/> cpr11006	RUNNING	RUNNING	1471955328	0.62	<input checked="" type="checkbox"/> 4276888	0 <input checked="" type="checkbox"/> 4276900 0
<input checked="" type="checkbox"/> cpr11008	RUNNING	RUNNING	1882747264	0.79	<input checked="" type="checkbox"/> 4276894	0 <input checked="" type="checkbox"/> 4276901 0
<input checked="" type="checkbox"/> cpr11010	RUNNING	RUNNING	1061171136	0.45	<input checked="" type="checkbox"/> 4282125	0 <input type="checkbox"/> 0 0
<input checked="" type="checkbox"/> cpr15002	RUNNING	RUNNING	1951067520	0.82	<input checked="" type="checkbox"/> 4282182	0 <input type="checkbox"/> 0 0

Include All COPPERs A

Include All COPPERs B

Exclude All COPPERs

by S. Yamada-san and T. Koga-san

- 5 k are given for TRG group (~ 5 k are planned to be archived)
- TRGECL archiving PV list : <https://confluence.desy.de/pages/viewpage.action?pageId=94155341>
※ PV lists: <https://confluence.desy.de/display/BI>List+of+Archived+PVs>

PV	#	Comment	Archived?	Contact Person
FAM temp.	104	52x2	Y	C.H. Kim E.J. Jang
TMM temp.	14	7x2	Y	
TC noise	576	-	Y	
TC pedestal	576	-	Y	
TC hit-rate	576	-	Y	
TC hit-rate average	~100	FW, BR, BE, ALL, θ and \emptyset	Y	
TRG bits	44	-	Y	
Luminosity	2	Accelerator, Detector	Y	
Total	~2000	-	-	-

- The PV lists of other sub-triggers

PV	#	Comment	Archived?	Contact Person
trggdl	960	inp/ftd/psn/dam_r/a_rate → (672)	Y	T.Koga and H.Nakazawa
trggrl	7	rate_2D(4), rate_ECL(1), rate_KLM(1), rate_TOP(1)	Y	Y.T. Lai
trgtsfn	2336	TSF hit rates (2336)	646/2336	Y.T. Lai
trgt3n	12	track rate from IP, track rate outside IP, valid cot (12=3x4)	N	-
trgetf	1	event timing rate (1)	Y	Y.T. Lai
top	16	top L1 trigger hit rate	Y	Savinov Vladimir
klmtrg	4	total1DRate – Barrel FWD/BWD, Endcap FWD/BWD	Y	D. Liventsev
Total	~3000	-	-	-

~ 1500

※ PV lists: <https://confluence.desy.de/display/BI>List+of+Archived+PVs>

- TRGECL (on btrgctr server)
 - ~ 55 k
- Other (on btrgsrv server)
 - ~ 3 k

- T. Koga-san, H.Nakazawa-san and Y. T. Lai
- RC nodes are well established
 - READY signals are prepared.
- Well developed GUIs
- Configuration DB recording
 - daqdbprovider problem 1 or 2 times per a 1 or 2 day
- ~ 1500 PVs are archived.
- DQM is prepared by T. Koga

- E.J. Jang & C.H. Kim
- RC nodes are well established
 - A READY signal is prepared.
- Well developed GUIs
- Configuration DB recording
 - No daqdbprovider problem.
- ~2000 PVs are archived.
- DQM is prepared by I.S. Lee

- Savinov Vladimir
- No RC node
 - No READY signal.
- No detailed GUIs, yet (not urgent).
- No configuration DB recording.
- **16 PVs are archived.**
- No DQM

- Dmitri Liventsev
- A RC node “KLMTRG” is prepared.
 - Always shows NOTREADY, though. Need to be updated.
- No detailed GUIs, yet (not urgent).
- Configuration DB recording
 - daqdbprovider problem 1 or 2 times per a 1 or 2 day
- 4 PVs are archived.
- No DQM

Thomas Kuhr gave us a GIT project.

Project settings

Project details

[Delete project](#)

SECURITY

Project permissions
Branch permissions
Access keys
Audit log

WORKFLOW

Branching model
Hooks

PULL REQUESTS

Merge checks
Merge strategies
Default reviewers

Project details

Project name*

Project key*
Changing this project's key will change the clone URL of all contained repositories. You can update each repository's remote with the following command: git remote set-url REMOTE_NAME NEW_URL

Description

Project avatar  [Change avatar](#)

Save [Cancel](#)