
daqcontrol Documentation

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Contents:

class `daqcontrol.fdaqClient`

analysis_histo (*h*)

Analysis: Get the JSON representation of a ROOT histogram

Warning Only FEBV1 is implemented yet

Parameters *h* – Complete path of histo name

Returns JSON answer

analysis_histolist ()

Analysis: Get the JSON list of histogram available

Warning Only FEBV1 is implemented yet

Returns JSON answer

analysis_monitor (*run*)

Analysis: Starts to Monitor data stored in /dev/shm/monitor

Warning Only FEBV1 is implemented yet

:param *run*:run to analyse :return: JSON answer

analysis_process (*run*)

Analysis: Process one file

Warning Only FEBV1 is implemented yet

:param *run*:run to analyse :return: JSON answer

analysis_status ()

Analysis: Get the status of the processing (*run*,*evt*)

Warning Only FEBV1 is implemented yet

Returns JSON answer

analysis_stop (*run*)

Analysis: Stop to Monitor data stored in /dev/shm/monitor

Histogram are written int /tmp

Warning Only FEBV1 is implemented yet

:param *run*:run to analyse :return: JSON answer

daq_configure ()

Send a CONFIGURE transition to FDAQ :return: asnwer to the transition

daq_create ()

Send a CREATE transition to the FDAQ process

daq_dbstatus ()

Send an DBSTATUS command to FDAQ

Returns answer to the command, the status of the DBCACHE (*run* ,DB State)

daq_destroy ()

Send a DESTROY transition to FDAQ :return: answer to the transition

daq_difstatus ()

Send A DIFSTATUS command to FDAQ

Returns answer to the command, a list of all DIF or GRIC with their status

daq_discover ()

Send a DISCOVER transition to FDAQ :return: answer to the transition

daq_downloaddb (*state, version*)

Send a DOWNLOADADB command to FDAQ

Parameters

- **state** – State name
- **version** – State version if needed

Returns answer of the command

daq_evbstatus ()

Send an EVBSTATUS command to FDAQ

Returns answer to the command, the status of the Event Builder (run , events built)

daq_forceState (*name*)

Send a FORCESTATE command to FDAQ

Parameters **name** – State name to be set

daq_getparameters ()

Send a GETPARAM command to FDAQ

daq_info (*name*)

List all information about process named name

Parameters **name** – Name of the process

Returns A string with a pretty print of the informations

daq_initialise ()

Send a INITIALISE transition to FDAQ :return: answer to the transition

daq_list ()

List all information from all processes in the configuration

Returns A string with a pretty print of the informations

daq_normalstop ()

Send a STOP transition to FDAQ and a MONITOR command to stop the monitoring :return: answer to the transition

daq_process ()

Send a LISTPROCESS command :return: JSON answer :obsolete: Use jc_info instead

daq_services ()

Send a PREPARE transition to FDAQ :return: answer to the transition

daq_setparameters ()

Send a SETPARAM command to FDAQ

daq_setrunheader (*rtyp, value, mask=4294967295*)

Event Builder: Set the run header (used for calibration)

Parameters

- **rtyp** – Type of run (0=physic,1= VTHTIME scan,2= CAL6B scan)
- **value** – Value of VThTime or 6BDAC
- **mask** – Channel mask

Returns JSON answer

daq_start (*comment=None*)

Start a run: Reset trigger counter and calibration settings if MDCC is used Send a START transition to FDAQ Send a MONITOR command to FDAQ

Parameters **comment** – A comment of the run

Returns answer to the transition

daq_state ()

Check The state of FDAQ

Returns A string with the state name

daq_stop ()

Stop: If a FEBV1 Scurve is running, stop it Else Make a normalStop :return: the answer to the effective command

daq_tdcstatus ()

Send A TDCSTATUS command to FDAQ

Returns answer to the command, a list of all FEBV1 with their status

dif_ctrlreg (*ctrl*)

DIF: Send a CTRLREG command to FDAQ

Parameters **ctrl** – An hexadecimal string of the control register of DIF

Returns the answer to the command

dif_setgain (*gain*)

DIF: Send a SETGAIN command to FDAQ (DIF gain setting)

Parameters **gain** – the PAGAIN to be set on HR2

Returns answer to the command

dif_setthreshold (*b0, b1, b2*)

DIF: Send a SETTHRESHOLD command to FDAQ (DIF thresholds setting)

Parameters

- **b0** – B0 threshold of HR2
- **b1** – B1 threshold of HR2
- **b2** – B2 threshold of HR2

Returns answer to the command

ecal_pause ()

MDCC: Send a ECALPAUSE command to FDAQ

Returns JSON answer

Obsolete Use for ECAL SDHCAL tests

ecal_resume ()

MDCC: Send a ECALRESUME command to FDAQ

Returns JSON answer

Obsolete Use for ECAL SDHCAL tests

feb_cal6bdac (*mask, shift*)

FEBV1: Send a CAL6BDAC command to FDAQ, FEBV1 6BDAC calibration

Parameters

- **mask** – 32 Channel mask
- **shift** – 6bdac shift value to be added to loaded value

Returns JSON answer

feb_calibdac (*ntrg, ncon, ncoff, dacmin, dacmax, mask, step=5, vth=480*)

FEBV1: Acquisition loop for 6bdac scan

Parameters

- **ntrg** – Number of windows per point
- **ncon** – Number of clock active
- **ncoff** – Number of clock off
- **dacmin** – lowest dac value
- **dacmax** – highest dac value
- **step** – Loop step
- **vth** – Fixed Threshold

feb_fullcalib (*ch, spillon, spilloff, beg, las, step=2, asic=255, mode='FEB1'*)

FEBV1: Acquisition loop interface for 6BDAC scan

Parameters

- **ch** – 255 = according to mode channel/channel, 1023 = all channels, other value= channel(PETIROC)
- **spillon** – Number of clock active
- **spilloff** – Number of clock off
- **beg** – lowest DAC value
- **las** – highest DAC value
- **step** – Loop step
- **asic** – Asic mask (1,2,or 3)
- **mode** – OLD=WT board,COAX=coaxial PCB, FEBV0=with return line PCB,FEBV1

feb_fullscurve (*ch, spillon, spilloff, beg, las, step=2, asic=255, mode='FEB1'*)

FEBV1: Acquisition loop interface for VTHTIME scan

Parameters

- **ch** – 255 = according to mode channel/channel, 1023 = all channels, other value= channel(PETIROC)
- **spillon** – Number of clock active
- **spilloff** – Number of clock off
- **beg** – lowest VTHTIME value
- **las** – highest VTHTIME value
- **step** – Loop step
- **asic** – Asic mask (1,2,or 3)
- **mode** – OLD=WT board,COAX=coaxial PCB, FEBV0=with return line PCB,FEBV1

feb_injection_configure ()
FEB Inj: Configure transition
Returns JSON answer

feb_injection_delay (*nb*)
FEB Inj: Injection delay in the windows command
Parameters **nb** – delay in 25 ns clocks
Returns JSON answer

feb_injection_destroy ()
FEB Inj: DESTROY transition
Returns JSON answer

feb_injection_duration (*nb*)
FEB Inj: Injection duration command
Parameters **nb** – duration in 25 ns clocks
Returns JSON answer

feb_injection_height (*nb*)
FEB Inj: Injection height command
Parameters **nb** – pulse height (0-64) non linear
Returns JSON answer

feb_injection_internal ()
FEB Inj: Injection internal trigger command
Returns JSON answer

feb_injection_mask (*side, mask*)
FEB Inj: Channel masking command
Parameters

- **side** – 0/1 for High Radius / Low radius
- **mask** – Channel mask

Returns JSON answer

feb_injection_number (*nb*)
FEB Inj: Injection number of trigger command
Parameters **nb** – Maximal number of trigger
Returns JSON answer

feb_injection_pause ()
FEB Inj: Injection pause command
Returns JSON answer

feb_injection_resume ()
FEB Inj: Injection resume command
Returns JSON answer

feb_injection_soft ()
FEB Inj: Injection sof trigger command
Returns JSON answer

feb_injection_source (*source*)

FEB Inj: Injection source command

Parameters **source** – External/soft/Internal (to be precised)

Returns JSON answer

feb_lut_calib (*tdc, channel*)

FEB LUT: LUT calibration command

:param tdc:FEB instance number :param channel: FEB channel to be calibrated

feb_lut_draw (*tdc, channel, canvas=None, feb=15*)

FEB LUT: LUT Draw for one TD and one channel

:param tdc:FEB instance number :param channel: FEB channel :param canvas: ROOT TCanvas if already existing :param feb: FEB id, lowest byte of the IP address

feb_lut_dump (*tdc, feb=15*)

FEB LUT: LUT dump for one TDC and all channels to summary_LUT_febid.txt

:param tdc:FEB instance number :param feb: FEB id, lowest byte of the IP address

feb_resettdc ()

FEBV1: Send a RESETTDC command to FDAQ, it resets the firmware of each FEB

Returns answer to the command

feb_scurve (*ntrg, ncon, ncoff, thmin, thmax, mask, step=5*)

FEBV1: Acquisition loop for VTHTIME scan

Parameters

- **ntrg** – Number of windows per point
- **ncon** – Number of clock active
- **ncoff** – Number of clock off
- **thmin** – lowest VTHTIME value
- **thmax** – highest VTHTIME value
- **step** – Loop step

feb_set6bdac (*value*)

FEBV1: Send a SET6BDAC command to FDAQ, FEBV1 6BDAC scan

Parameters **value** – 6bdac value to be set on all active channels

Returns JSON answer

feb_setmask (*value, asic*)

FEBV1: Send a SETMASK command to FDAQ, FEBV1 mask set

Parameters

- **value** – ams to be applied
- **asic** – 1,2 or 3 for ASIC 1 ,2 or both

Returns JSON answer

feb_settdcdelays (*active, dead*)

FEBV1: Send a SETTDCDELAYS command to FDAQ (FEBV1 latch settings)

Parameters

- **active** – Number of active latch clocks
- **dead** – Number of reset latch clocks

Returns answer to the command

feb_settdcmode (*mode*)

FEBV1: Send a SETTDCMODE command to FDAQ (FEBV1 mode)

Parameters **mode** – 0 all buffer, 1 only trigepr ones

feb_setvthtime (*value*)

FEBV1: Send a SETVTHTIME command to FDAQ, FEBV1 VTHTIME scan

Parameters **value** – VTHTIME value to be set on all Asics

Returns JSON answer

feb_testmask (*tdc, mask*)

FEB LUT: LUT Physic mask command

:param tdc:FEB instance number :param mask: FEB channel mask used for physic runs.

jc_appcreate ()

Loop on all computers defined in the configuration and send an APPCREATE Command, it sends a transition CREATE to all baseApplication

Returns Dictionary of answer to APPCREATE command

jc_create ()

Loop on all computers defined in the configuration and initialise their job control with the loaded configuration

Returns Dictionary of answer to INITIALISE transition

jc_destroy ()

Loop on all computers defined in the configuration and clean the loaded configuration

Returns Dictionary of answer to DESTROY transition

jc_info (*hostname, apname=None*)

Pretty print of processes status and application settings

Parameters

- **hostname** – Host name where the jobcontrol is running
- **apname** – Application name , if None all application are dumped

jc_kill ()

Loop on all computers defined in the configuration and kill the process defined with the loaded configuration

Returns Dictionary of answer to KILL transition

jc_oldstatus (*apname=None*)

Same as jc_status

Obsolete use jc_status instead

jc_restart (*host, jobname, jobpid*)

Kill and restart one process

Parameters

- **host** – Host name

- **jobname** – Name of the process in the job control
- **pid** – Process id

jc_start ()

Loop on all computers defined in the configuration and start the process defined with the loaded configuration

Returns Dictionary of answer to START transition

jc_status (*apname=None*)

Pretty print of the status of all process and application informations defined in the configuration

Parameters **apname** – if set , only this application name is dump

loadConfig (*name=None, login=None*)

Load in memory the configuration of the DAQ to be used If the name and the login are undefined, the configuration is selected using 3 environment variables

- **DAQURL** : the url to the ilconfdb (Oracle)
- **DAQFILE** : the JSON file to use
- **DAQMONGO**: The CONFIG_NAME:VERSION in MongoDB (using MongoJob access)

Only one of the 3 must be set

Parameters

- **name** – name of the configuration
- **login** – Oracle Web login

parseConfig ()

Access and parse the configuration defined by one of the environment variable (DAQURL,DAQFILE or DAQMONGO)

slow_clearalarm (*first, last*)

Slow Control: FSLOW application Command: HV clear alarm

It finds a HV controlling application and clear alarm of specified channels

Parameters

- **first** – First channel
- **last** – Last channel

Returns JSON HV status

slow_configure ()

Slow Control: FSLOW application : send a CONFIGURE transition

It configures all Slow Control application previously discovered

slow_create ()

Slow Control: Find FSLOW application and send a CREATE transition

slow_discover ()

Slow Control: FSLOW application: send a DISCOVER transition

slow_humstatus ()

Slow Control: FSLOW application Command: HIH8000 humidity and Temperature

It finds a HIH8000 controlling application and get it status

Returns JSON Humidity and temperature status

slow_hvoff (*first, last*)

Slow Control: FSLOW application Command: HV Off

It finds a HV controlling application and turn HV off of specified channels

Parameters

- **first** – First channel
- **last** – Last channel

Returns JSON HV status

slow_hvon (*first, last*)

Slow Control: FSLOW application Command: HV On

It finds a HV controlling application and turn HV on of specified channels

Parameters

- **first** – First channel
- **last** – Last channel

Returns JSON HV status

slow_hvstatus (*first, last*)

Slow Control: FSLOW application Command: HV status

It finds a HV controlling application and get the status of specified channels

Parameters

- **first** – First channel
- **last** – Last channel

Returns JSON HV status

slow_iset (*first, last, value*)

Slow Control: FSLOW application Command: HV current limit setting

It finds a HV controlling application and set the maximum current (microA) of specified channels

Parameters

- **first** – First channel
- **last** – Last channel
- **value** – I max (microA)

Returns JSON HV status

slow_lvoff ()

Slow Control: FSLOW application Command: Turns LV OFF

It finds a LV controlling application and turn it off

Returns JSON LV status

slow_lvon ()

Slow Control: FSLOW application Command: Turns LV ON

It finds a LV controlling application and turn it on

Returns JSON LV status

slow_lvstatus ()

Slow Control: FSLOW application Command: LV status

It finds a LV controlling application and get it status

Returns JSON LV status

slow_ptstatus ()

Slow Control: FSLOW application Command: BMP Pressure and Temperature

It finds a BMP controlling application and get it status

Returns JSON PT status

slow_rampup (*first, last, value*)

Slow Control: FSLOW application Command: HV ramp up

It finds a HV controlling application and set the rising ramp of specified channels

Parameters

- **first** – First channel
- **last** – Last channel
- **value** – ramp (V/s)

Returns JSON HV status

slow_start ()

Slow Control: FSLOW application : send a START transition

It starts the monitoring loop of all monitorApplications. It triggers the storage in the monitoring process

slow_stop ()

Slow Control: FSLOW application : send a STOP transition

It stops any monitoring publication and storage

slow_vset (*first, last, value*)

Slow Control: FSLOW application Command: HV voltage setting

It finds a HV controlling application and set the voltage of specified channels

Parameters

- **first** – First channel
- **last** – Last channel
- **value** – Volatge in V

Returns JSON HV status

trig_beam (*clock*)

MDCC: Send a BEAMON command to FDAQ, it sets the beamon delay

Parameters **clock** – number of clock length

Returns JSON answer

trig_calibcount (*value*)

MDCC: Send a CALIBCOUNT command to FDAQ, FEBV1 calibration

Parameters **value** – Number of calibration frame

Returns JSON answer

trig_calibon (*value*)

MDCC: Send a CALIBON command to FDAQ, FEBV1 calibration

Parameters *value* – Calibration frame width

Returns JSON answer

trig_getregister (*address*)

MDCC: Send a GETREGISTER command to FDAQ, it reads a register of the MDCC

Parameters *address* – Register Address

Returns JSON answer

trig_hardreset ()

MDCC: Send a SETHARDRESET command to FDAQ

Returns JSON answer

Obsolete Used for FEBV0

trig_pause ()

MDCC: Send a PAUSE command to FDAQ

Returns JSON answer

trig_reloadcalib ()

MDCC: Send a RELOADCALIB command to FDAQ, FEBV1 calibration rearming

Returns JSON answer

trig_reset ()

MDCC: Send a RESETCOUNTERS command to FDAQ

Returns JSON answer with MDCC status

trig_resume ()

MDCC: Send a RESUME command to FDAQ

Returns JSON answer

trig_setregister (*address, value*)

MDCC: Send a SETREGISTER command to FDAQ, it sets a register of the MDCC

Parameters

- **address** – Register Address
- **value** – Register Value

Returns JSON answer

trig_spilloff (*clock*)

MDCC: Send a SPILLOFF command to FDAQ, it sets the Spill minimal delay

Parameters *clock* – number of clock length

Returns JSON answer

trig_spillon (*clock*)

MDCC: Send a SPILLON command to FDAQ, it sets the Spill length

Parameters *clock* – number of clock length

Returns JSON answer

trig_spillregister (*value*)

MDCC: Send a SPILLREGISTER command to FDAQ, it sets the MDCC mode

Parameters *value* – Spill register value

Returns JSON answer

trig_status ()

MDCC: Send a TRIGGERSTATUS command to FDAQ

Returns JSON answer with MDCC status

trig_tdcreset ()

MDCC: Send a RESETTDC command to FDAQ, it makes a full reset of FEBV1 firmware

Returns JSON answer

`daqcontrol.executeFSM` (*host, port, prefix, cmd, params*)

Access to the FSM of a `zdaq::baseApplication`

Parameters

- **host** – Host name
- **port** – Application port
- **prefix** – Prefix of the application , ie, <http://host:port/prefix/....>
- **cmd** – Transition
- **params** – Value of the content tag

Returns url answer

`daqcontrol.executeCMD` (*host, port, prefix, cmd, params*)

Access to the CoMmanDs of a `zdaq::baseApplication`

Parameters

- **host** – Host name
- **port** – Application port
- **prefix** – Prefix of the application , ie, <http://host:port/prefix/....>
- **cmd** – Command name
- **params** – CGI additional parameters

Returns url answer

`daqcontrol.executeRequest` (*surl*)

Acces to an url

Parameters *surl* – The url

Returns url answer

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