

# STATUS of IOCs

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OPI Runtime

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**DAQ**

DAQ Status

VME/VXS Crates

**FCAL**

FCAL Voltages

FCAL Dark Room

FCAL LED Pulser

FCAL Scalers

**GENERAL**

GlueX Overview

Status of IOCs

Status of Voltages

Hall Conditions

Hall Cameras

**PSC/PS/ST/TPOL**

PSC Voltages

PSC Expert Voltages

PSC Scalers

CSS <@gluon30.jlab.org> <3>

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OPI Runtime

Status of IOC-s

### STATUS OF EPICS IOC-s

GENERAL					
IOC Action Menus	Heartbeat Status	IOC Action Menus	Heartbeat Status	IOC Action Menus	Heartbeat Status
AC DAQ		DAQ STATUS		SCALER DUMMY	
AC POSITIONS		FCAL LED PULSER		SCALER WAVEFORMS	
ALARM SETTINGS		FCAL LED VOLTAGES		SOFTWARE INTERLOCK	
AMORPHOUS RADIATOR		FCAL PLC INTERFACE		SOLENOID PLC INTERFACE	
BCAL CHILLER		FDC CHILLER		SOLENOID PXI INTERFACE	
BCAL LED PULSER		FDC VOLTAGES		ST 60Hz	
BCAL TEMP PLC INTERFACE		GAS PLC INTERFACE		ST VOLTAGES	
BCAL VOLTAGES		GONIOMETER		TAGGER 60Hz	
BEAM TIME ACCOUNTING		GONIOMETER XY SCAN		TAGGER HALL MOTORS	
BEAMLINE VOLTAGES		HALL D MOTORS		TAGGER HALL RF	
BPU VOLTAGES		HALL D RF		TAGH VOLTAGE	
CA SECURITY		MONITORING OF CONTROLS		TAGM MOTION	
CDC VOLTAGES		PS CONVERTER		TAGM VOLTAGES	
COHERENT PEAK		PS HALL PROBE		TOF 60Hz	
COLLIMATOR MOTION		PS VOLTAGES		TOF VOLTAGES	
CRATE RESET PLC		PSC VOLTAGES		TPOL VOLTAGES	
				VME CRATES	

FCAL HV			
IOC Action Menus	Heartbeat Status	IOC Action Menus	Heartbeat Status
FCAL HV 1		FCAL HV 15	
FCAL HV 2		FCAL HV 16	
FCAL HV 3		FCAL HV 17	
FCAL HV 4		FCAL HV 18	
FCAL HV 5		FCAL HV 19	
FCAL HV 6		FCAL HV 20	
FCAL HV 7		FCAL HV 21	
FCAL HV 8		FCAL HV 22	
FCAL HV 9		FCAL HV 23	
FCAL HV 10		FCAL HV 24	
FCAL HV 11		FCAL HV 25	
FCAL HV 12		FCAL HV 26	
FCAL HV 13		FCAL HV 27	
FCAL HV 14		FCAL HV 28	

VME SCALERS			
IOC Action Menus	HeartbeatStatus	IOC Action Menus	HeartbeatStatus
SCALER ON ICPULSER 1		SCALER ON ROCFCAL 5	
SCALER ON ICPULSER 2		SCALER ON ROCFCAL 6	
SCALER ON IOCTAGCTRL		SCALER ON ROCFCAL 7	
SCALER ON ROCBCAL 1		SCALER ON ROCFCAL 8	
SCALER ON ROCBCAL 2		SCALER ON ROCFCAL 9	
SCALER ON ROCBCAL 4		SCALER ON ROCFCAL 10	
SCALER ON ROCBCAL 5		SCALER ON ROCFCAL 11	
SCALER ON ROCBCAL 7		SCALER ON ROCFCAL 12	
SCALER ON ROCBCAL 8		SCALER ON ROCPS 1	
SCALER ON ROCBCAL 10		SCALER ON ROCPS 2	
SCALER ON ROCBCAL 11		SCALER ON ROCST	
SCALER ON ROCBCAL 13		SCALER ON ROCSTPSC 2	
SCALER ON ROCBCAL 14		SCALER ON ROCTAG 1	
SCALER ON ROCBCAL 15		SCALER ON ROCTAG 2	
SCALER ON ROCBCAL 16		SCALER ON ROCTAG 1	
SCALER ON ROCFCAL 1		SCALER ON ROCTAG 2	
SCALER ON ROCFCAL 2		SCALER ON ROCTOF 1	
SCALER ON ROCFCAL 3		SCALER ON ROCTOF 3	
SCALER ON ROCFCAL 4			

Expert Screen

# STATUS of IOCs

The screenshot displays the 'Status of IOC-s' interface in a web browser window. The browser title is 'CSS <@gluon30.jlab.org> <3>'. The interface is divided into three main panels, each with a grid of IOC status indicators (IOCs) and their heartbeat status.

### GENERAL

IOCs	Heartbeat Status	IOCs	Heartbeat Status	IOCs	Heartbeat Status
AC DAQ	●●	DAQ STATUS	●●	SCALER DUMMY	●●
AC POSITIONS	●●	FCAL LED PULSER	●●	SCALER WAVEFORMS	●●
ALARM SETTINGS	●●	FCAL LED VOLTAGES	●●	SOFTWARE INTERLOCK	●●
AMORPHOUS RADIATOR	●●	FCAL PLC INTERFACE	●●	SOLENOID PLC INTERFACE	●●
BCAL CHILLER	●●	FDC CHILLER	●●	SOLENOID PXI INTERFACE	●●
BCAL LED PULSER	●●	FDC VOLTAGES	●●	ST 60Hz	●●
BCAL TEMP PLC INTERFACE	●●	GAS PLC INTERFACE	●●	ST VOLTAGES	●●
BCAL VOLTAGES	●●	GONIOMETER	●●	TAGGER 60Hz	●●
BEAM TIME ACCOUNTING	●●	GONIOMETER XY SCAN	●●	TAGGER HALL MOTORS	●●
BEAMLINE VOLTAGES	●●	HALL D MOTORS	●●	TAGGER HALL RF	●●
BPU VOLTAGES	●●	HALL D RF	●●	TAGH VOLTAGE	●●
CA SECURITY	●●	MONITORING OF CONTROLS	●●	TAGM MOTION	●●
CDC VOLTAGES	●●	PS CONVERTER	●●	TAGM VOLTAGES	●●
COHERENT PEAK	●●	PS HALL PROBE	●●	TOF 60Hz	●●
COLLIMATOR MOTION	●●	PS VOLTAGES	●●	TOF VOLTAGES	●●
CRATE RESET PLC	●●	PSC VOLTAGES	●●	TPOL VOLTAGES	●●
				VME CRATES	●●

### FCAL HV

IOCs	Heartbeat Status	IOCs	Heartbeat Status
FCAL HV 2	●●	FCAL HV 16	●●
FCAL HV 3	●●	FCAL HV 17	●●
FCAL HV 4	●●	FCAL HV 18	●●
FCAL HV 5	●●	FCAL HV 19	●●
FCAL HV 6	●●	FCAL HV 20	●●
FCAL HV 7	●●	FCAL HV 21	●●
FCAL HV 8	●●	FCAL HV 22	●●
FCAL HV 9	●●	FCAL HV 23	●●
FCAL HV 10	●●	FCAL HV 24	●●
FCAL HV 11	●●	FCAL HV 25	●●
FCAL HV 12	●●	FCAL HV 26	●●
FCAL HV 13	●●	FCAL HV 27	●●
FCAL HV 14	●●	FCAL HV 28	●●

Context Menu:

- Soft Reboot all FCAL HV IOC-s
- Hard Reboot all FCAL HV IOC-s

### VME SCALERS

IOCs	Heartbeat Status	IOCs	Heartbeat Status
SCALER ON IOC PULSER 1	●●	SCALER ON ROFCAL 5	●●
SCALER ON IOC PULSER 2	●●	SCALER ON ROFCAL 6	●●
SCALER ON IOCTAGCTRL	●●	SCALER ON ROFCAL 7	●●
SCALER ON ROBCAL 1	●●	SCALER ON ROFCAL 8	●●
SCALER ON ROBCAL 2	●●	SCALER ON ROFCAL 9	●●
SCALER ON ROBCAL 4	●●	SCALER ON ROFCAL 10	●●
SCALER ON ROBCAL 5	●●	SCALER ON ROFCAL 11	●●
SCALER ON ROBCAL 7	●●	SCALER ON ROFCAL 12	●●
SCALER ON ROBCAL 8	●●	SCALER ON ROCPS 1	●●
SCALER ON ROBCAL 10	●●	SCALER ON ROCPS 2	●●
SCALER ON ROBCAL 11	●●	SCALER ON ROCTST	●●
SCALER ON ROBCAL 13	●●	SCALER ON ROCTSPSC 2	●●
SCALER ON ROBCAL 14	●●	SCALER ON ROCTAGH 1	●●
SCALER ON ROBCAL 15	●●	SCALER ON ROCTAGH 2	●●
SCALER ON ROBCAL 16	●●	SCALER ON ROCTAGM 1	●●
SCALER ON ROFCAL 1	●●	SCALER ON ROCTAGM 2	●●
SCALER ON ROFCAL 2	●●	SCALER ON ROCTOF 1	●●
SCALER ON ROFCAL 3	●●	SCALER ON ROCTOF 3	●●
SCALER ON ROFCAL 4	●●		

Expert Screen

# STATUS of IOCs

```
iocPortMap.py - /gluonfs1/home/kakoyan/epics/R3-14-12-3-1/app/scripts/IOC/ <@gluon30.jlab.org>
File Edit Search Preferences Shell Macro Windows Help
"TOFSKTYHZ": { "host": "iocpulser1", "port": 25063, "enable": "enabled", "path": "/gluex/controls/epics/R3-14-12-3-RHEL5/app/iocBoot/iocstruckScaler", "cmd": "tofSixtyHz.cmd", "title": "TOF I"
"STSKTYHZ": { "host": "iocpulser2", "port": 25063, "enable": "enabled", "path": "/gluex/controls/epics/R3-14-12-3-RHEL5/app/iocBoot/iocstruckScaler", "cmd": "stSixtyHz.cmd", "title": "ST 60I

# Pulsers
"FCPLSR" : { "host": "iocpulser1", "port": 25068, "enable": "enabled", "path": "/gluex/controls/epics/R3-14-12-3-RHEL5/app/iocBoot/iocpulserV1495", "cmd": "pulserV1495.cmd", "title": "FCAL
"BCPLSR" : { "host": "iocpulser2", "port": 25069, "enable": "enabled", "path": "/gluex/controls/epics/R3-14-12-3-RHEL5/app/iocBoot/iocpulserV1495", "cmd": "pulserBCAL.cmd", "title": "BCAL :

# IOCs to control detector Voltages
"TPOLVLT" : { "host": "gluonioc1", "port": 25056, "enable": "enabled", "path": "$APP/iocBoot/iocvoltage", "cmd": "tpol-voltage.cmd", "title": "TPOI VOLTAGES" },
"BEAMVLT" : { "host": "gluonioc1", "port": 25057, "enable": "enabled", "path": "$APP/iocBoot/iocvoltage", "cmd": "beam-voltage.cmd", "title": "BEAMLINE VOLTAGES" },
"BPDVLT" : { "host": "gluonioc1", "port": 25058, "enable": "disabled", "path": "$APP/iocBoot/iocvCaen", "cmd": "bpd-voltage.cmd", "title": "BPD VOLTAGES" },
"TAGHVLT" : { "host": "gluonioc1", "port": 25059, "enable": "enabled", "path": "$APP/iocBoot/iocvCaen", "cmd": "tagh-voltage.cmd", "title": "TAGH VOLTAGE" },
"BPVULT" : { "host": "gluonioc1", "port": 25060, "enable": "enabled", "path": "$APP/iocBoot/iocvCaen", "cmd": "bpu-voltage.cmd", "title": "BPU VOLTAGES" },
"TAGMVLT" : { "host": "gluonioc1", "port": 25061, "enable": "enabled", "path": "$APP/iocBoot/iocvCaen", "cmd": "tagm-voltage.cmd", "title": "TAGM VOLTAGES" },
"PSVLT" : { "host": "gluonioc1", "port": 25062, "enable": "enabled", "path": "$APP/iocBoot/iocvCaen", "cmd": "ps-voltage.cmd", "title": "PS VOLTAGES" },
```

```
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iocGroupMap["VME SCALERS"] = list()
for iocName in rocList:
    iocGroupMap["VME SCALERS"].append(iocName)

# Here we deal with the IOC for FCAL HV
fcalList = ["FCALHV1", "FCALHV2", "FCALHV3", "FCALHV4", "FCALHV5", "FCALHV6", "FCALHV7", "FCALHV8", "FCALHV9", "FCALHV10",
            "FCALHV11", "FCALHV12", "FCALHV13", "FCALHV14", "FCALHV15", "FCALHV16", "FCALHV17", "FCALHV18", "FCALHV19",
            "FCALHV20", "FCALHV21", "FCALHV22", "FCALHV23", "FCALHV24", "FCALHV25", "FCALHV26", "FCALHV27", "FCALHV28"
            ]

iocGroupMap["FCAL HV"] = list()
for iocName in fcalList:
    iocGroupMap["FCAL HV"].append(iocName)
```