Online Update

Elliott Wolin

JLab

4-Oct-2013

Outline

- Online Data Challenges
- Networking
- DAQ
- JInventory System
- Farm Manager
- Counting House, Computers, Databases
- System Software
- Computer System Monitoring
- Controls
- ELog
- UPS Power
- Summary

Maroon Bells

Networking

- Trigger fiber installation separate contract (Chris C)

- Installing final networking
  - Tagger almost done
  - Mark and I optimizing fiber/switch distribution in the hall
  - No sooner than many weeks from now

- Interim networking installed
  - Low bandwidth
  - Run copper cables to interim switch as needed
  - Adequate for near-term needs

North Wall

FCAL Switch

DAQ (from Dave A)

- DAQ test stand down to 8 crates incl. TS, no GTP/SSP crate

- Summer testing led to important improvements in robustness, error handling and debug-ability
  - Many firmware and driver updates

- Many improvements in auxiliary programs
  - Gui's, editors, diagnostic programs, etc.

- CODA3 version ready for release
  - Supports multiple users
  - Implemented new byte-swapping policy

- 17 Gen 3 Core I7 ROCS just arrived
  - Need to order ~40 more, 10-12 week lead time
  - Ready to order if money available

DAQ, con't

- To do:
  - More high-speed testing w/two-stage event building

  - More integration with Global Trigger Crate and driver development

  - Continue debugging

  - Eventually move operations out of Counting House into Hall

JInventory System

- Serguei Pozdniakov (contract) working diligently on this
  - Moving on to other stuff soon

- Database fully implemented, ready for production use
  - ~1000 items entered
  - backed-up regularly by Computer Center

- Item custodians get email if location or condition changes

- Still to do:
  - Complete entering electronics and control items
  - Complete barcode labeling
  - Implement power hierarchy information
  - Add electronics maintenance component
    - For Fernando et al.
  - Add more consistency checking
  - Implement handheld scanner API

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Back   Forward   Reload   New Tab   Stop   Print   🔒 https://halldweb1.jlab.org/JInventory/htdocs/list.php   ☆ ▾   Firebug ▾   Adblock Plus ▾

🔍 Google   JLab   Zimbra   NYClean   Wikipedia   Hall D   GlueX   GlueXWiki   Online   Controls   Mantis   Midas   HDList   CC   REQs   MIS   NYTimes   craigslist   »

Zimbra: 9/30 - 10/4 ✕   Jefferson Lab | Jefferson Lab ✕   GlueX-Collaboration-Oct-2... ✕   Welcome to eBay ✕   BackpackingLight.com - T... ✕   Hall D Component Invento... ✕

JInventory database in use by CUE user 'wolin' with 'read/write/delete' access

New item   List items   People   Companies   Brands   Advanced Search...   Delisa's Database   Paginate   One Page

Items

Item ID: [_____]

Housing Parent | Ancestor: [_____] [_____]

Property Tag: [_____]

Short name and description: [_____]

Brand-Format-Model: [-- all -- ▾]   Reset >>   Search >>

1 **2** 3 4 5 6   Next >>   [92]

Total Items meet Search Criteria = 911

[New item] [Delete selected] [Toggle All] [Show selected] [Edit selected]

Check	Property Tag (Serial number)	ID	Short name	Description	Housing	Custodian	Insert Date	Action
☐	DI001134 (3J92C)	911	Point I/O Circuit Breaker	Allen-Bradley 1489-A 1-Pole AC Miniature	Hall D (1) N1 (158) N1-6 (296) DIN Rail "AENT7" (906) Point I/O Ethernet/IP Adapter "AENT7" (907)	David Butler	2013-09-24 13:38:00	
☐	DI001133 (8922830)	910	Point I/O Power Supply	Allen-Bradley 1606-XLP Output: 24-28 VDC / 2.1A 50W	Hall D (1) N1 (158) N1-6 (296) DIN Rail "AENT7" (906) Point I/O Ethernet/IP Adapter "AENT7" (907)	David Butler	2013-09-24 13:36:54	
☐	DI001137 (28093670)	909	Point I/O Analog Voltage Input Module	Allen-Bradley 1734-IE2V 2 ch. 15 bits plus sign across -10...10V	Hall D (1) N1 (158) N1-6 (296) DIN Rail "AENT7" (906) Point I/O Ethernet/IP Adapter "AENT7" (907)	David Butler	2013-09-24 13:35:48	
☐	DI001136 (28093630)	908	Point I/O Analog Voltage Input Module	Allen-Bradley 1734-IE2V 2 ch. 15 bits plus sign across -10...10V	Hall D (1) N1 (158) N1-6 (296) DIN Rail "AENT7" (906) Point I/O Ethernet/IP Adapter "AENT7" (907)	David Butler	2013-09-24 13:35:17	
☐	DI001135 (SS1FJ8DQ)	907	Point I/O Ethernet/IP Adapter "AENT7"	Allen-Bradley 1734-AENT	Hall D (1) N1 (158) N1-6 (296) DIN Rail "AENT7" (906)	David Butler	2013-09-24 13:34:16	
☐	DI001141	906	DIN Rail "AENT7"	Support for Barrel Calorimeter Downstream North Point I/O	Hall D (1) N1 (158) N1-6 (296)	David Butler	2013-09-24 13:29:58	
☐	DI001129 (3B32C)	905	Point I/O Circuit Breaker	Allen-Bradley 1489-A 1-Pole AC Miniature	Hall D (1) S1 (309) S1-1 (310) DIN Rail "AENT6" (900) Point I/O Ethernet/IP Adapter "AENT6" (901)	David Butler	2013-09-24 13:26:59	
☐	DI001128 (8922770)	904	Point I/O Power Supply	Allen-Bradley 1606-XLP Output: 24-28 VDC / 2.1A 50W	Hall D (1) S1 (309) S1-1 (310) DIN Rail "AENT6" (900) Point I/O Ethernet/IP Adapter "AENT6" (901)	David Butler	2013-09-24 13:05:37	
☐	DI001132 (28093671)	903	Point I/O Analog Voltage Input Module	Allen-Bradley 1734-IE2V 2 ch. 15 bits plus sign across -10...10V	Hall D (1) S1 (309)	David Butler	2013-09-24 12:23:00	

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Google   JLab   Zimbra   NYClean   Wikipedia   Hall D   GlueX   GlueXWiki   Online   Controls   Mantis   Midas   HDList   CC   REQs   MIS   NYTimes   craigslist

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New item   List items   People   Companies   Brands   Advanced Search...   Delisa's Database   Paginate   One Page

Items

Item ID: [   ]

Housing Parent | Ancestor: [   ] [   ]

Property Tag: [   ]

Short name and description: [   ]

Brand-Format-Model: [-- all -- ▼]   Reset >>   Search >>

[1] << Back   1 2 3 4 5 6   Next >>   [92]

Total Items meet Search Criteria = 911

New item   Delete selected   Toggle All   Show selected   Edit selected

Check	Property Tag (Serial number)	ID	Short name	Description	Housing	Custodian	Update Date	Action
☐	DI000315 (405)	871	A1535SN	CAEN HV Card 24 ch. -3.5 kV 3 mA SHV	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864) * Slot 6	Fernando Barbosa		
☐	DI000314 (489)	870	A1535SN	CAEN HV Card 24 ch. -3.5 kV 3 mA SHV	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864) * Slot 4	Fernando Barbosa		
☐	DI000313 (493)	869	A1535SN	CAEN HV Card 24 ch. -3.5 kV 3 mA SHV	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864) * Slot 2	Fernando Barbosa		
☐	DI000312 (458)	868	A1535SN	CAEN HV Card 24 ch. -3.5 kV 3 mA SHV	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864) * Slot 0	Fernando Barbosa		
☐	DI000311 (1315M1)	867	A1532	CAEN SY1527 Optional Power Supply Unit 750W	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864)	Fernando Barbosa		
☐	DI000310 (1325M1)	866	A1532	CAEN SY1527 Optional Power Supply Unit 750W	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864)	Fernando Barbosa		
☐	DI000309 (126)	865	A1531	CAEN SY1527 Primary Power Supply	Hall D (1) D2 (576) D2-8 (863) SY1527 HV chassis 16 sl. "TOP" (864)	Fernando Barbosa		
☐	DI000308 (500)	864	SY1527 HV chassis 16 sl. "TOP"	CAEN SY1527LC	Hall D (1) D2 (576) D2-8 (863)	Fernando Barbosa		
☐	D2-8	863	D2-8	D2 Rack #8	Hall D (1) D2 (576)	Fernando Barbosa		
☐	DI000165 (237)	862	TI	JLAB Trigger Interface board	Hall D (1) D2 (576)	Fernando Barbosa		

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Items

Item ID: [_____]

Housing Parent | Ancestor: [_____] [_____]

Property Tag: [_____]

Short name and description: [_____]

Brand-Format-Model: [-- all --]

Reset >>   Search >>

[1] << Back 1 2 3 4 5 6 Next >> [92]

Total Items meet Search Criteria = 911

New item   Delete selected   Toggle All   Show selected   Edit selected

Check	Property Tag (Serial number)	ID	Short name	Description	Housing	Custodian	Update Date	Action
☐	DI000164 (ACDI-001)	861	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 19	Fernando Barbosa		
☐	DI000163 (ACDI-058)	860	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 18	Fernando Barbosa		
☐	DI000162 (ACDI-072)	859	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 17	Fernando Barbosa		
☐	DI000161 (ACDI-062)	858	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 16	Fernando Barbosa		
☐	DI000160 (ACDI-095)	857	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 15	Fernando Barbosa		
☐	DI000159 (ACDI-070)	856	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 14	Fernando Barbosa		
☐	DI000158 (ACDI-073)	855	fADC250	JLAB Flash ADC 12-bit 250 Msps 16 ch.	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 13	Fernando Barbosa		
☐	DI000157 (84)	854	SD	JLAB Signal Distribution board	Hall D (1) D2 (576) D2-7 (802) VXS crate 21 sl. "BOT" (843) * Slot 12	Fernando Barbosa		

BrandFormatModel

ID	Brand	Format	Model	Items of this brand	Action
34	Allen-Bradley	CompactLogix Controller Main Unit	1769-L35E	2	
37	Allen-Bradley	CompactLogix End Card	1769-ECR	2	
36	Allen-Bradley	CompactLogix Input Module	1769-IR6	16	
35	Allen-Bradley	CompactLogix Power Supply	1769-PA4	2	
41	Allen-Bradley	PLC Circuit Breaker Module	1489-A	2	
40	Allen-Bradley	PLC Single Phase Power Supply	1606-XLP	2	
39	Allen-Bradley	Point I/O Input Module	1734-IE2V	4	
38	Allen-Bradley	Point I/O Main Unit	1734-AENT	2	
25	CAEN	SY1527 Optional Power Supply	A1532	12	
24	CAEN	SY1527 Primary Power Supply	A1531	6	
15	CAEN	SYx527 HV Board	A1535SN	19	
16	CAEN	SYx527 HV Board	A1550N	4	
12	CAEN	SYx527 HV Board	A1550P	10	
11	CAEN	SYx527 HV Mainframe 16 sl.	SY1527LC	6	
31	CAEN	VME64x Module	VX1290A	6	
6	Hammond	Rack	19IN x 44U	39	
20	ISEG	MPOD HV Module	EHS F 201p-F-K	30	
5	JLab	Area	N/A	0	
1	JLab	Building	N/A	7	
33	JLab	DIN Rail	19IN	4	
3	JLab	Level	N/A	6	
4	JLab	Room	N/A	0	
2	JLab	Trailer	N/A	0	
10	JLab	VME Module	TI	44	
14	JLab	VME64x Module	DSC2	109	

Hall-D electronics, Racks layout

Electronics Search Engine

FCAL

FDC

U2-1 U2-2 U2-3 U2-4 U2-5

U2

CDC

U2-10 U2-9 U2-8 U2-7 U2-6

TOF

D2-1 D2-2 D2-3 D2-4

D2

D2-8 D2-7 D2-6 D2-5
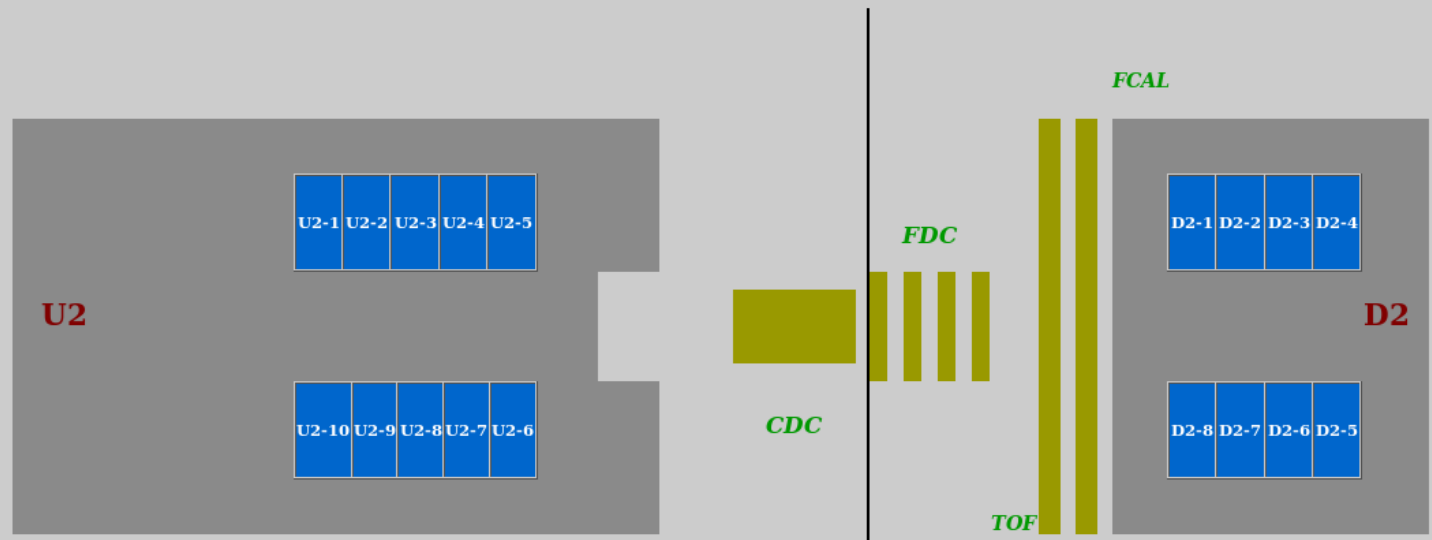
Upper Level

Lower Level

Upper Level

Lower Level

U1-13
U1-14
#15 ACC

U1-1 | U1-2 | U1-3 | U1-4 | U1-5

U1

#16 PS
#17 Colli

U1-10 | U1-9 | U1-8 | U1-7 | U1-6

N1-1 | N1-2 | N1-3 | N1-4 | N1-5 | N1-6

N1

ST   *BCAL*

S1-1 | S1-2 | S1-3 | S1-4 | S1-5 | S1-6

S1

TAGGER Building

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Back   Forward   Reload   New Tab   Stop   Print   🔒 https://halldweb1.jlab.org/SP/HallD_Racks/U2.U2-1.U2-5.front.html   Firebug   Adblock Plus

🔍 Google   JLab   Zimbra   NYClean   Wikipedia   Hall D   GlueX   GlueXWiki   Online   Controls   Mantis   Midas   HDList   CC   REQs   MIS   NYTimes   craigslist   »

Zimbra: 9/30 - 10/4 ✕ | Jefferson Lab | Jefferson Lab ✕ | GlueX-Collaboration-Oct-2... ✕ | Welcome to eBay ✕ | BackpackingLight.com - T... ✕ | Upstream Level 2, Racks ... ✕

Upstream Level 2, Racks U2-1 to U2-5

front view, click here to see the back view

U2-1	U2-2	U2-3	U2-4	U2-5
SY1527 HV chassis 16 sl. "TOP"		VXS crate 21 sl. "TOP"	VXS crate 21 sl. "TOP"	VXS crate 21 sl. "TOP"
		VXS crate 21 sl. "MID"	VXS crate 21 sl. "MID"	VXS crate 21 sl. "MID"
	MPOD LV chassis 10 sl. "BOT"	VXS crate 21 sl. "BOT"	VXS crate 21 sl. "BOT"	
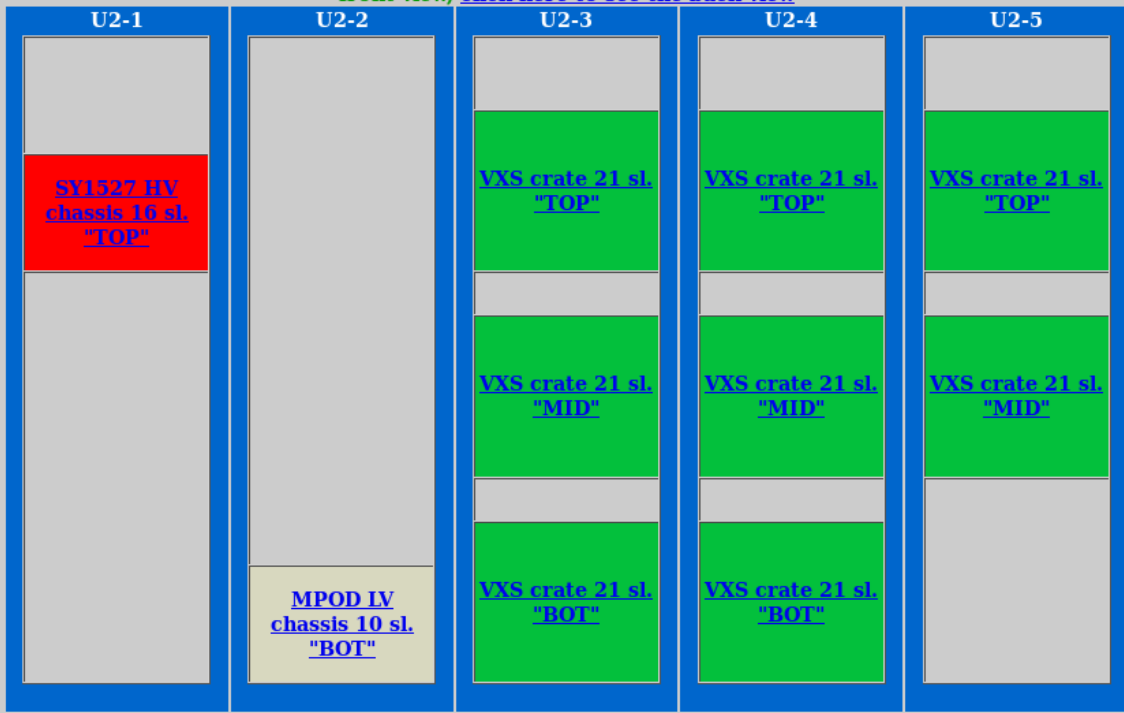
▬▬▬▬▬ - Crate or Cable Support

▭▭▭▭▭ - Empty place

▭▭▭▭▭ - Ventilator, Fan

U2, U2-1, SY1527 HV chassis 16 sl. "TOP"

U2, U2-3, VXS crate 21 sl. "TOP"

Slot No	Property Tag	Serial No	Modules	Brief functional description
n/a	DI000643	1688039	WIENER VXS6023x	VXS crate 21 sl. "TOP" WIENER UEV 6023 VXS6023JLx618
n/a	DI000644	1688072	WIENER UEL6020	VXS Fan Tray WIENER UEL6020E
n/a	DI000645	1488096	WIENER UEP6021	VXS Power Supply WIENER UEP6021 Voltage: +5V/230A, +-12V/23A, +3.3V/230A
12	DI000656	77	JLab SD	SD JLAB Signal Distribution board
21	DI000665	267	JLab TI	TI JLAB Trigger Interface board

Home page | Up to higher level | Back to top

U2, U2-3, VXS crate 21 sl. "MID"

Slot No	Property Tag	Serial No	Modules	Brief functional description
n/a	DI000666	1688051	WIENER VXS6023x	VXS crate 21 sl. "MID" WIENER UEV 6023 VXS6023JLx618
n/a	DI000667	1688057	WIENER UEL6020	VXS Fan Tray WIENER UEL6020E
n/a	DI000668	1488107	WIENER UEP6021	VXS Power Supply WIENER UEP6021 Voltage: +5V/230A, +-12V/23A, +3.3V/230A
12	DI000679	60	JLab SD	SD JLAB Signal Distribution board
21	DI000688	253	JLab TI	TI JLAB Trigger Interface board

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U2, U2-3, VXS crate 21 sl. "BOT"

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New item   List items   People   Companies   Brands   Advanced Search...   Delisa's Database   Paginate   One Page

Items

Item ID: [   ]

Housing Parent | Ancestor: [   ] [   ]

Property Tag: [DI000643   ]

Short name and description: [   ]

Brand-Format-Model: [-- all --   ▼]   Reset >>   Search >>

Total Items meet Search Criteria = 1

| New item | Delete selected | Toggle All | Show selected | Edit selected |

Check	Property Tag (Serial number)	ID	Short name	Description	Housing	Custodian	Insert Date	Action
☐	**DI000643** **(1688039)**	**489**	**VXS crate 21 sl. "TOP"**	WIENER UEV 6023 VXS6023JLx618	Hall D (1) U2 (460) U2-3 (488)	Fernando Barbosa	2013-09-18 15:21:40	

| New item | Delete selected | Toggle All | Show selected | Edit selected |

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Back   Forward   Reload   New Tab   Stop   Print   https://halldweb1.jlab.org/JInventory/htdocs/viewItem.php?id=489&returnTo=list.php   Firebug   Adblock Plus

Google   JLab   Zimbra   NYClean   Wikipedia   Hall D   GlueX   GlueXWiki   Online   Controls   Mantis   Midas   HDList   CC   REQs   MIS   NYTimes   craigslist

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JInventory database in use by CUE user 'wolin' with 'read/write/delete' access

New item   List items   People   Companies   Brands   Advanced Search...   Delisa's Database   Paginate   One Page

View item	< Back Print
General information	
Property Tag	DI000643
ID	489
Short name	VXS crate 21 sl. "TOP"
Entry date	2013-09-18 15:21:40
Description	WIENER UEV 6023 VXS6023JLx618
Brand-Format-Model	WIENER - VXS crate 21 sl. - VXS6023x
Part number	0B02.0133
Serial number	1688039
Housing Parents	Hall D (1)	U2 (460)	U2-3 (488)
GeomLoc	p = 16U from top, h = 11U, w = 11U
Maintenance	
Custodian	Fernando Barbosa
Replacer	Nicholas Sandoval
On-site evaluation	Chris Stanislav
Off-site repair	WIENER, Plein & Baus, GmbH
Status	Normal - Operational
Maintenance History	

Farm Manager

- CODA component that manages farm processes
  - Farm Manager listed in run control (COOL) configuration file
  - Farm processes are not CODA components
  - Farm processes do not respond to run control commands
  - E.g. a farm process can die but DAQ continues

- Vardan (DAQ group) writing Farm Manager

- Farm process tested in recent data challenge
  - hd_online (Dave L)
  - Communication layer and state machine (me)

Hall-D Farm Control System
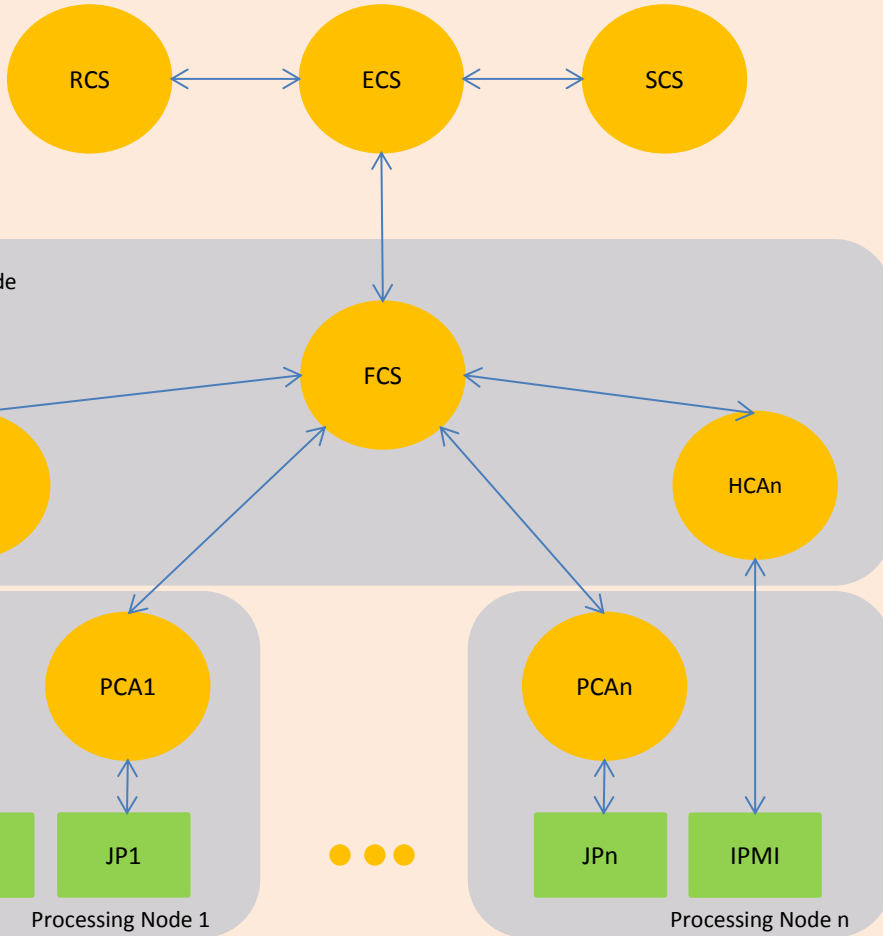
RCS - Run Control System supervisor
ECS - Experiment Control System supervisor
SCS - Slow Control System supervisor
FCS - Farm Control System supervisor
HCAn - Hardware Control Agent
PCAn - Process Control Agent
IPMI - Hardware control protocol
JPn - Jana Process

RCS   ECS   SCS

Control Node

FCS

HCA1   HCAn

PCA1   PCAn

IPMI   JP1   JPn   IPMI

Processing Node 1   Processing Node n

PCA States	State Machine Actions
connected	start
disconnected	stop
configured	configure
active	go
ended	end
paused	pause
warning	getState
error	getStatus

Counting House, Computers, Databases

- Counting House done except few punch-list items

- Computers ordered, should arrive any day now
  - Combined order with HPCC

- Paul Letta (system manager) will install everything
  - Maybe by the end of the month

- Working out MySQL database backup strategy
  - Will back up from replicated database
  - May depend on level and type of offline access needed

Counting Room

System Software

- Will install locally in /gapps (not in /apps)
  - Should not rely on /apps, /site or /group

- Moved to GCC 4.8.1
  - C++11 "language complete"
  - Missing some libs (esp. regex)

Computer System Monitoring

- Will use Ganglia for the forseeable future
  - Used during data challenge
  - Used by Computer Center

- AFECS controls framework (from DAQ group) includes hardware monitoring component

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Back   Forward   Reload   New Tab   Stop   Print   gluon24/ganglia/   Firebug   Adblock Plus

🔍 Google   📘 JLab   📗 Zimbra   NYClean   w Wikipedia   Hall D   GlueX   GlueXWiki   Online   Controls   Ⓜ Mantis   Midas   HDList   CC   REQs   MIS   NYTimes   craigslist   »

Zimbra: 9/30 - 10/4   ✕   📘 Jefferson Lab | Jefferson Lab   ✕   Ganglia:: Hall D Online Com...   ✕

Ganglia

.sourceforge.net

Hall D Online Computing Grid Report for Wed, 02 Oct 2013 11:58:11 -0400

Get Fresh Data

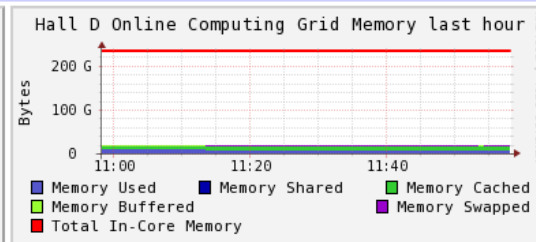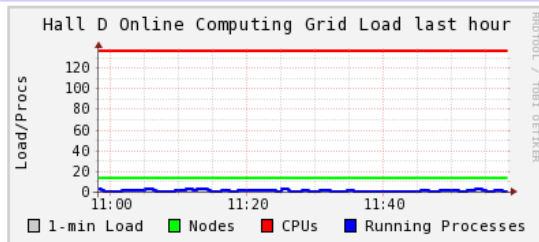**Last** [hour ⇕]   **Sorted** [descending ⇕]

Hall D Online Computing Grid > [--Choose a Source ⇕]

Hall D Online Computing Grid (3 sources) (tree view)

CPUs Total: **136**
Hosts up: **13**
Hosts down: **0**

Avg Load (15, 5, 1m):
0%, 0%, 0%
Localtime:
2013-10-02 11:58

General Purpose Nodes (physical view)

CPUs Total: **40**
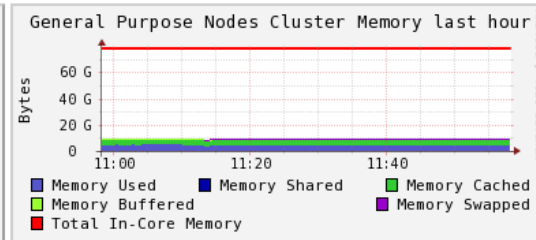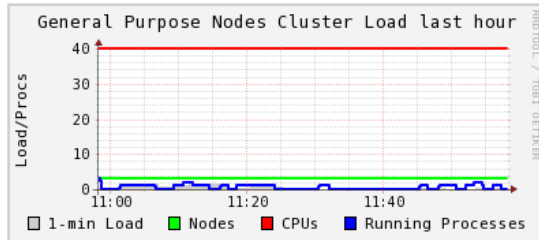Hosts up: **3**
Hosts down: **0**

Avg Load (15, 5, 1m):
0%, 1%, 1%
Localtime:
2013-10-02 11:58

Level 3 Farm Nodes (physical view)

CPUs Total: **32**
Hosts up: **4**
Hosts down: **0**

Avg Load (15, 5, 1m):
0%, 0%, 0%
Localtime:
2013-10-02 11:58
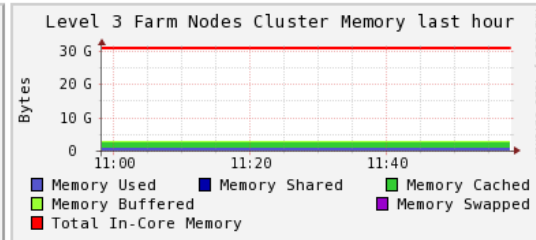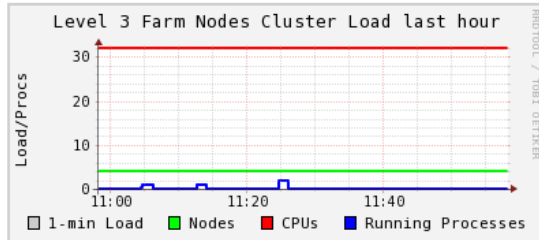
EMU (physical view)

CPUs Total: **64**
Hosts up: **6**
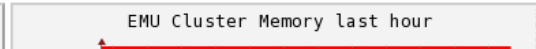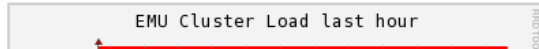
Controls

- Dave Butler beginning installation of controls equipment

- Everything we know about is here or on order

- Rack space becoming an issue
  - Detector groups need more space than planned
  - Fernando is the rack-space czar!

- Solenoid control system being upgraded
  - Based on experience during Solenoid test

FCAL
Darkroom
Controls

IU Stuff
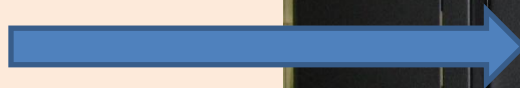
Allen-Bradley
CompactLogix
PLC
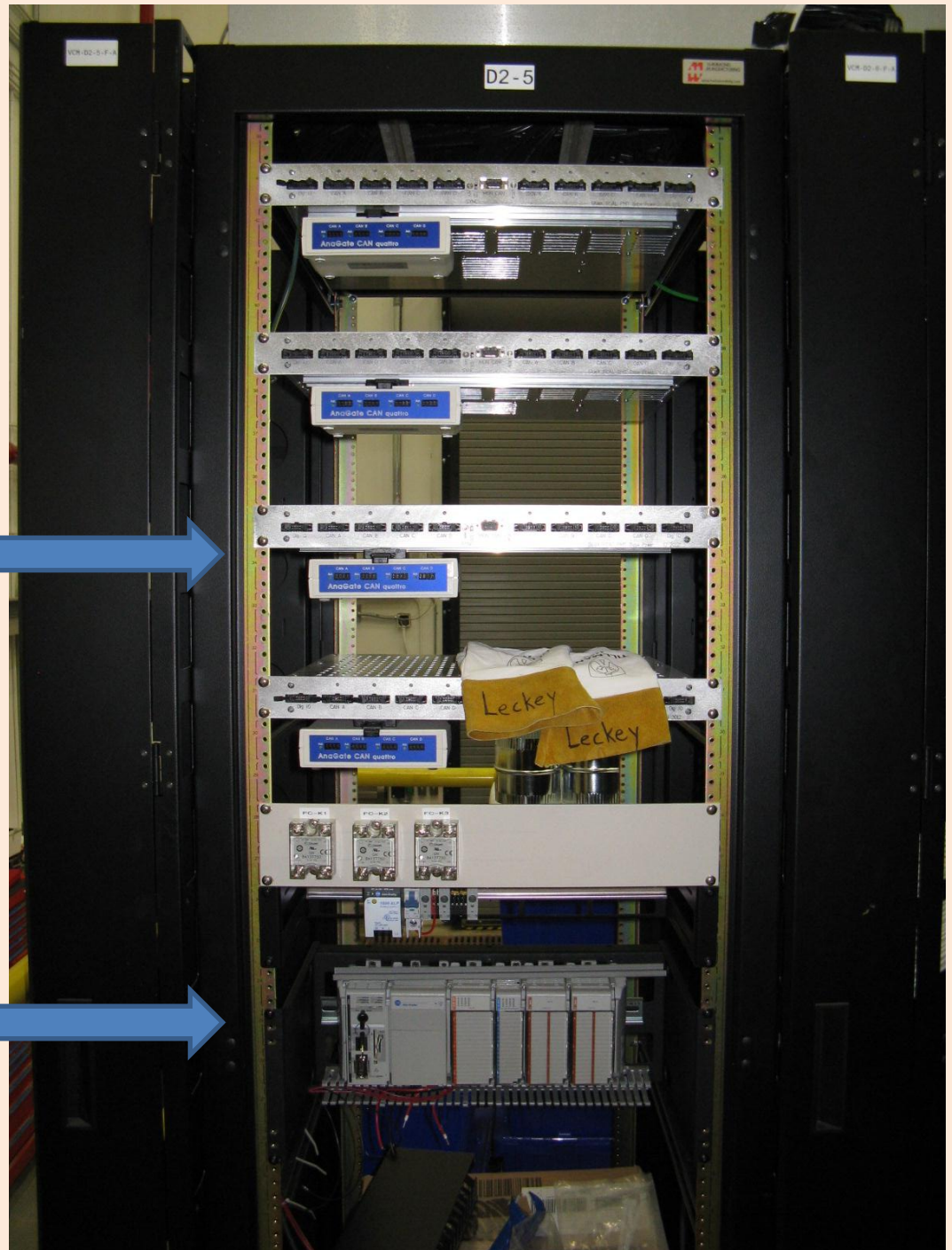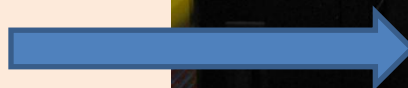
ELog

- Used Accelerator ELog for Solenoid test

- Worked ok, many improvements needed
  - Requirements document developed by four halls
  - Accelerator thinks it's mostly done…

- Underlying database on ACC managed computers

- New ELog from EPICS community?

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Zimbra: 9/30 - 10/4   Jefferson Lab | Jefferson Lab   GlueX-Collaboration-Oct-2...   Welcome to eBay   BackpackingLight.com - T...   This is Hall D solenoid tes...

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This is Hall D solenoid test - signing off....

Lognumber **3251772**. Submitted by **whitey** on Sun, 08/04/2013 - 04:58.

▼ There is 1 comment...

Woo-hoo...I don't have to come in this morning (Sunday)!

by wolin on Sun, 08/04/2013 - 05:06

Entry made from home, as I gratefully go back to bed...

Logbooks: HDSOLENOID

Called Robert (cryo) and cancelled dewars for the morning.

The state of the Solenoid test equipment is as follows:
Ramped to zero amps
Stopped writing PXI files
Pxi is on
PLC Data logger on
Decreased vapor cooled lead flow to 29 slpm
Power supply off and locked out
Mapping equipment powered off
Vacuum pumps engaged and active - valves open.
Mag field signs off
Coffe pot - empty

We will discuss warm up cycle with cryo tomorrow.
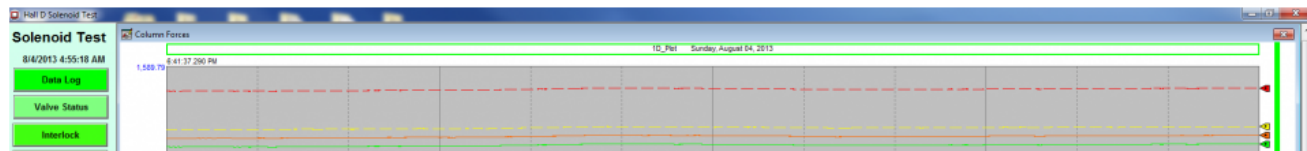
UPS Power

- Plan to run filtered power from big UPS to hall
  - Then run branch circuits where needed

- Giles will do the planning
  - After regular power installed in hall

Summary

- Summer online data challenge very useful
  - Next one late Fall will include almost all DAQ/L3/monitoring components

- Final networking being installed
  - Interim system can accommodate all low-bandwidth needs

- Summer DAQ testing by DAQ group very useful
  - Led to many CODA improvements

- JInventory ready to use
  - Almost all DAQ and controls equipment entered and barcode labeled

- Farm manager being developed

- Counting House and computers almost ready
  - Software installation, backup strategies, compilers, accounts, etc.

- Accelerator ELog needs work

- UPS power coming to the hall eventually