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GASU BOX #1

03/16/04 jjo
LAB Bench #1
DAQ Board #1

03/11/04
LAB Bench #1
GASU DAQ Board #4

03/05/04
LAB Bench #4
GASU DAQ Board #4

GASU BOX #2

03/16/04 jjo
LAB Bench #1
DAQ Board #3

03/10/04 jjo
Downstairs for test.
Primary - DAQ Board #1
    DAQ #1 has power on reset issue

Redundant - DAQ Board #3

Software upgrade needed to talk to redundant side

03/03/04
Upstairs for mods
DAQ Board #1

GASU BOX # 3 (ACD)

03/15/04 jjo
GASU DAQ Board #2
GASU DAQ Board #4

03/11/04
GASU DAQ Board #2
Bench 4

03/05/04
GASU DAQ #1

04/16/04 jjo

TAM CLK was not working correctly. R535 was not soldered. Did not fix the problem. Shorted R535, CLK looks OK but not great.

04/05/04 jjo

EPU0 and EPU1 NResponse seem to be swapped. I see EPU0 on EPU1 and don’t see EPU1

03/11/04 jjo

EBM_OUT - ebm_out_byte_02_data_transfer_restart_pad.stp
GEM
   TAM – tamV05a.stp

Replaced EBM_IN_A – Still bad
LCB TX stat registers not cleared at powerup?
Found that an EBM Reset fixes the problem
   EBMconCmdSync(slh, LADR_EBM, 1)

03/10/04 jjo

Intermittently takes events
ALL LCB tx registers report events sent at various times
Installed on Primary side of box 2

03/09/04 jjo

EBM
   EBM_OUT – Ebm_Out_BByte_02.stp

03/05/04 jjo

Upstairs – Replace EBM_OUT

03/05/04 jjo

GEM
   TAM – tamV05.stp
   ROI – roiV04_bit32.stp
   Sched – schedV04_bit32.stp
CRU
  CRU - cru_all_lcbc_enabled.stp

AEM
  AEM – aem.stp (021104)

EBM
  EBM_OUT – Exit 11, Verify fails twice
  EBM_IN_A – ebm_in_a.stp (012704)
  EBM_IN_B – ebm_in_a.stp (012704)
    Analyze gives different bit counts
    Programs and verifies however

03/02/04 jjo
Currently the Backplane test stand in middle of room
Versions UNKNOWN

03/03/04 jjo
Board upstairs for ALL mods.
04/20/04 jjo
ROI
roiV06
2RB-6, Tile 004 BAD. Possible open trace on diff. Input

04/16/04 jjo
GEM
Scheduler – SchedV08
EBM
EBM_out_byte_03_more…. Failed exit 90 twice

04/09/04 jjo
GEM
TAM – tamV09 – Fails Exit 17 using laptop (twice)
(Wrong STP or damaged device)
Programmed fine using PC.

04/02/04 jjo
GEM –
Scheduler – SCHEDV06 – Fails 91%
- Second pass

AEM – AEM_02 - ok

03/18/04 jjo

GEM –
ROI – roiV05 – Program, fail verify, exit 11
Reverify, ok
Version came back 0xF
Reprogrammed, verify ok
Version came back 0x5

TAM – tamV06 – ok second time
TAM – tamV06 – Fails, exit 90 after 60%

EBM-
Installed V3.2, turned off mag light
EBM_OUT – ebm_out_byte-03 -- ok
EBM_OUT – Fails exit 90 after 60%

03/11/04 ejs
+3.3 volts for 1LA doesn't turn on.
PNP switching transistor for one channel +3.3 volts has emitter to collector short – power always on. I think it's Q45, but maybe Q44.

03/12/04 jjo
TAM – tamV05a.stp

03/09/04 jjo
ACD slow clock mods by Eric including SSR rewiring

03/04/04 jjo
Only Ports SIU0 and EPU2 are functioning. Could be GLTC OR issue.

03/03/04 jjo
Bit Wide EBM out was actually programmed. Reprogrammed with correct byte wide EBM.

03/02/04 jjo
GEM
TAM – tamV04_bit32.stp
Wouldn’t program until I connected the LCB. Ground?
ROI – roiV04_bit32.stp
Sched – schedV04_bit32.stp

EBM
EBM_OUT – ebm_out_byte_02.stp
EBM_IN_A – ebm_in_a.stp (012704)
EBM_IN_B – ebm_in_b.stp (012704)

CRU
CRU - cru_all_lcbs_enabled.stp

AEM
AEM – aem.stp (021104)

03/02/04 jjo
Event Data is BAD as decoded by the LCB. (Did not look at scope)
GASU DAQ #3

04/09/04 jjo

GEM

Scheduler – SchedV07 – Failed verify using external PS and Laptop
Tam already programmed ok with this setup

04/06/04 jjo

Reprogrammed the TAM, Scheduler, AEM, EBMOut using the lap top with no problems. Used an external power supply to power the GASU. Removed the GASU Power Supply to get to the Scheduler.

03/12/04 jjo

EBM_OUT - ebm_out_byte_02_data_transfer_restart_pad.stp

03/09/04 jjo

AEM – aem.stp (021104)

GEM

TAM – tamV05a.stp
ROI – roiV04_bit32.stp
Sched – schedV04_bit32.stp

EBM

EBM_OUT – ebm_out_byte_02.stp
EBM_IN_A – ebm_in_a.stp (012704)
EBM_IN_B – ebm_in_b.stp (012704)

CRU - cru_all_lcbs_enabled.stp

AEM replaced. Still get EXIT 6
TDI connection from AEM to JTAG header was open

03/05/03 jjo

Upstairs to replace AEM

03/03/04 jjo

CRU - cru_all_lcbs_enabled.stp

GEM

TAM – tamV04_bit32.stp
ROI – roiV04_bit32.stp
Sched – schedV04_bit32.stp

AEM – EXIT 6 – Replace the chip one more time.

03/02/04 jjo

Fixed RCLK problem on JTAG, Fixed JTAG Cabling
All JTAG Caps Vpp Vpn have been removed. 
Mark says that this board is drawing > 1 amp. 
Lab Supply was limiting at 2.00 amp

02/25/04 jjo 
Can not program AEM. Get Exit 6 always. Replaced AEM with no change.
GASU DAQ #4

04/09/04
AEM – AEM_02_trigger_stats – Fails exit 15 (twice)
Cycle power, reconnect JTAG exit 90 at 48%

04/08/04 jjo
GEM
Scheduler – Program SchedV07 – Fails exit 90 at 32%

03/22/04 jjo
EBM
EBM_IN_A - Ebm_In_A_01
Failed exit 11
Failed exit 90 at 55%
Reprogrammed ok

EBM_OUT - Ebm_Out_Byte_03_Pipelined

03/19/04 jjo
GEM
ROI – roiV05 – Failed after 85% exit 90
Reprogrammed ok
TAM – tamV06 – Failed after 8% exit 90
Failed after 51% exit 90
Third time a charm

EBM
EBM_OUT – ebm_out-byte-03

03/04/05 jjo
GEM
TAM – tamV05a.stp

03/02/04 jjo
GEM all at version 4.
32 Bit interface, 4 bit version numbers,

GEM
TAM – tamV04_bit32.stp
ROI – roiV04_bit32.stp
Sched – schedV04_bit32.stp
EBM
EBM_OUT – ebm_out_byte_02.stp
EBM_IN_A – ebm_in_a.stp (012704)
EBM_IN_B – ebm_in_b.stp (012704)
02/25/04 jjo
Functional as Eric and I left it doing BYTE wide EBM.