

# View8 Setup

The screenshot displays the View8 software interface with two main windows. The left window, titled 'view8.opi', shows a list of eight UUTs (acq2106\_201 to acq2106\_209) with their respective parameters and status. The right window, titled 'wr8.opi', shows a 'White Rabbit Clock Status' table with 8 rows of data.

UUT ID	CNT	CLK	ADC	SHOT	STATE	PRE	POST	DEMUX
acq2106_201	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_203	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_204	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_205	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_206	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_207	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_208	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0
acq2106_209	CAP	SYN	ACQ480_ACTIVATE	1309	IDLE	0	100.00E3	0

  

Timestamp	Status	Value	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1627	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1308	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1308	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1308	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1588	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1554	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1897	WR..
Fri Nov 20 06:40:40 TAI 2020	ST_FINISHED	1559	WR..

View8 allows viewing of multiple UUTs (1..8) in one workspace

# Setting Up: Properties

Menu: Edit | Properties

Preferences

OPI Runtime Preferences

Macros:

Name	Value
UUT	acq2106_007
UUT1	acq2106_007
UUT2	acq2106_309
UUT3	acq2106_319
UUT4	
UUT5	
UUT6	
UUT7	
UUT8	
CAPOPI	capture
LAUNCHOPI	../ACQ400_LAUNCHER
<Add>	<Add>

Walk the tree:  
CSS Apps | Display | BOY  
OPI Runtime

add "macro" parameters

Enter UUT names  
UUT, UUT1 ..  
Here we have 3 UUTs  
enter blank up to UUT8

Add two boilerplate  
items (sorry)

[OK] then  
Menu: File | Restart CS Studio

Walk the tree:  
CSS Apps | Display | BOY  
OPI Runtime

add "macro" parameters

Enter UUT names  
UUT, UUT1 ..  
Here we have 3 UUTs  
enter blank up to UUT8

Add two boilerplate  
items (sorry)

[OK] then  
Menu: File | Restart CS Studio

# Launch

The screenshot shows the CS-Studio interface. On the left is a Navigator pane listing various .opi files, with `view8_launcher.opi` selected. The main editor displays the macro settings for `view8_launcher.opi`, including a list of macros and their values, and a table of macro definitions. On the right is a panel with three buttons: `Launch..`, `Launch WR`, and `Launch FP..`. A yellow callout box points to the `Launch..` button with the text `[Launch]`. Another yellow callout box points to the macro definitions table with the text `Check macro settings registered.`

File Edit Search CS-Studio Window Help

Navigator

- .project
- ACQ164\_LAUNCHER.opi
- ACQ400\_LAUNCHER.opi
- BOLO8\_LAUNCHER.opi
- CPSC2\_LAUNCHER.opi
- DEMO\_GPU.opi
- DEMO44.opi
- DEMO44TW.opi
- LPSC\_LAUNCHER.opi
- MAG2.opi
- QEN\_launcher.opi
- RAD\_LAUNCHER.opi
- README
- STREAMVIEW4.opi
- SystemRTop.opi
- SystemTTop.opi
- SystemTTop0.opi
- acq1014\_launcher.opi
- acq423\_launcher.opi
- acq424\_launcher.opi
- acq425\_launcher.opi
- acq43x\_launcher.opi
- acq480\_launcher.opi
- color.def
- font.def
- lia5\_launcher.opi
- lia\_complex\_launcher.opi
- lia\_complex\_launcher\_acq420.opi
- pbn\_launcher.opi
- stream8\_launcher.opi
- transient8\_launcher.opi
- tricontrol.opi
- view8\_launcher.opi**
- wr\_demo.opi

view8\_launcher.opi

MACROS:  
Check the list below to see that all macros are defined.  
If a macro is NOT defined, please define it from  
Edit!Preferences!CSS Applications!Display!BOY!OPI Runtime

UUT1	acq2106_007
UUT2	acq2106_309
UUT3	acq2106_319
UUT4	
UUT5	
UUT6	
UUT7	
UUT8	
SUDO	\${SUDO}
SECS	\${SECS}
HAPID	\${HAPIDIR}
ETRG	\${ETRG}
FCLK	\${FCLK}
STORE	\${STORE}
RUNC	user_apps/a...14/acq1014_caploop.py --shc
RUNC	user_apps/a.../acq400_capture.py
RUNC	\${RUNCMD}
TRANS	user_apps/a.../acq1014_configure_transi
TRANS	user_apps/a.../acq400_configure_transien
TRANS	\${TRANSCM

Launch..

Launch WR

Launch FP..

[Launch]

Check macro settings registered.

# Launch2

[Launch] yields 3 tabs:  
view8, fp8, and wr8  
Here 007 has no WR, no worries

view8 provides per-ut live status and  
per-ut opi launch buttons

\*L : pops ACQ400\_LAUNCHER  
configured for UUT

Pop common OPI's  
Counters, Clktree, Capture, Sync

# Pop Opi's, drag/drop to suit

Arrange the same set of tabs per uut, then it's easy to get a view across the chain..

The screenshot displays the CS-Studio interface with three panels showing the configuration of different units in a chain. Each panel includes a 'Main Timing Highway Source Routing' section with controls for CLK, TRG, SYNC, and GPIO. Below this are 'Event Bus Source' and 'Front Panel' sections with various input and output controls. At the bottom, a table summarizes the units and their status.

	CNT	CLK	ADC	SHOT	STATE	PRE	POST	DEMUX	
acq2106_007	CAP	SYN	ACQ480 ACTIVATE	ON	IDLE	0	100.00E3	0	PLOT
acq2106_309	CAP	SYN	ACQ480 ACTIVATE	ON	IDLE	0	100.00E3	0	PLOT
acq2106_319	CAP	SYN	ACQ480 ACTIVATE	ON	IDLE	0	100.00E3	0	PLOT

Pop, Drag, Drop:  
Display represents a SYNC highway chain M, S1, S2



# Consistent view down the chain..

The screenshot displays the CS-Studio interface with three clock tree diagrams and a status table. Each diagram shows a clock tree starting from an XCLK input, passing through an MB\_CLK block (containing a Si53326 PLL), and then through a Si53315 clock divider. The diagrams are for acq2106\_007, acq2106\_309, and acq2106\_319. Below the diagrams is a 'Master Site' section with status indicators for Jitter Clnr, Link, and Decim:ADC. At the bottom, a table shows the status of the three acquisition cards.

	CNT	CLK	ADC	SHOT	STATE	PRE	POST	DEMUX	
acq2106_007	CAP	SYN	ACQ480_ACTIVATE	OK	OK	0	100.00E3	0	PLOT
acq2106_309	CNT	CLK	ADC						
acq2106_309	CAP	SYN	ACQ480_ACTIVATE	OK	OK	0	100.00E3	0	PLOT
acq2106_319	CNT	CLK	ADC						
acq2106_319	CAP	SYN	ACQ480_ACTIVATE	OK	OK	0	100.00E3	0	PLOT

# Consistent view down the chain..

The image displays three side-by-side screenshots of the CS-Studio software interface, each showing a 'Transient Control' configuration window for a different capture point. The windows are titled 'Capture acq2106\_007 Transient Control', 'Capture acq2106\_309 Transient Control', and 'Capture acq2106\_319 Transient Control'. Each window contains a table of parameters and control buttons.

SHOT	PRE	POST	OSAM	OUTPUT SOFT_TRG	Default PO...
0	0	100000	1	1	Default PRE/P...

Below the table, each window shows a 'REPEAT' section with a 'DLE' value of 0 and a 'TOTAL' value (655360, 1310720, and 1310720 respectively). Control buttons include 'setMode', 'ARM', and 'STOP'. At the bottom of each window, there are sections for 'Aggregator Sites' (1,2), 'Sample Size' (32), and a table of event settings (EVENT0, EVENT1, RGM) with options like 'enable', 'disable', 'd0', 'd1', 'rising', 'falling', 'none', and 'OFF'. A 'Find Event' section shows 'DLE' values of 0 and 0.