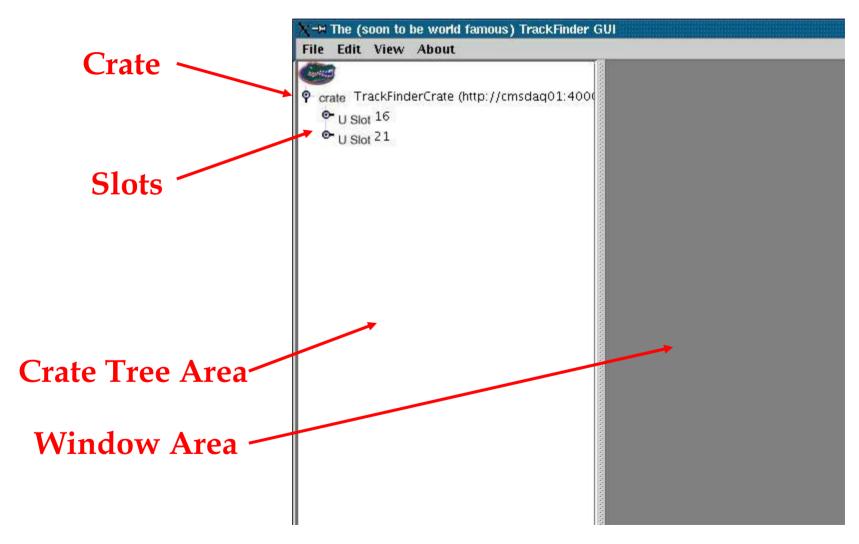


The TrackFinder GUI

Lindsey Gray / Holger Stöck University of Florida



Crate/Slot Level



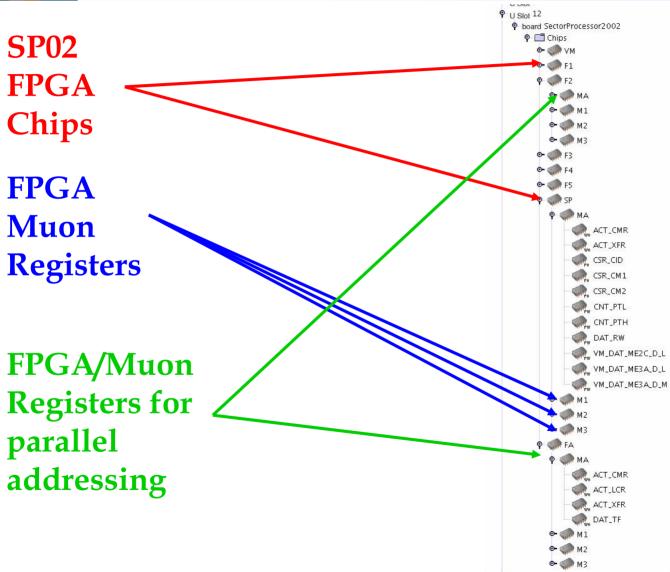


SP02 Board Level

File Edit View About	Board Window for SP in Sl	
	Load Firmware Load LUTs Local Phi	
	Global Phi ME1a	Browse Load Verify
Track Finder Crote (http://cmcder.01/4004	Global Phi ME1a	Browse Load Verify
P crate TrackFinderCrate (http://cmsdaq01:4000	Global Phi ME2	Browse Load Verify
P U Slot 16	Global Phi ME3	Browse Load Verify
board ClockAndControlBoard	Global Phi ME4	Browse Load Verify
board CluckAndControlBoard	Global Phi MB1a	Browse Load Verify
P U Slot 21	Global Phi MB1b	Browse Load Verify Browse Load Verify
	Global Eta ME1a	Browse Load Verify
board sectorProcessor2002	Global Eta ME1b	Browse Load Verify
	Global Eta ME2	Browse Load Verify
	Global Eta ME3	Browse Load Verify
	Global Eta ME4	Browse Load Verify
	РТ	Browse Load Verify
		Slot: 12
		Execute No Activity
		Board Window for SP in Slot 12
		Load Firmware Load LUTs
		Path: Browse
Boards		Path: Browse
		Slot: 12 Chain:
ligher level SP07 /		Load No Activity
Higher level SP02 /		
ommand panel		
• 1		
vindows		

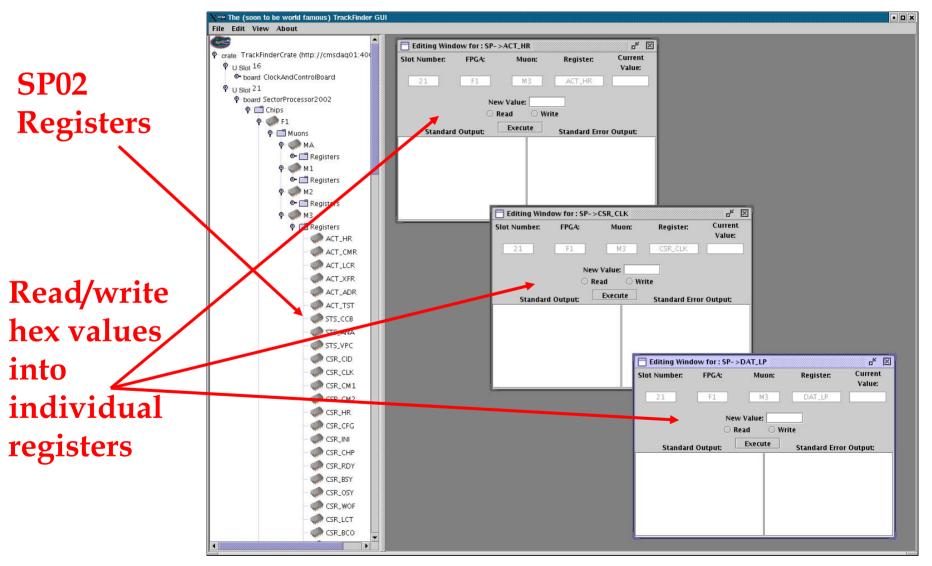


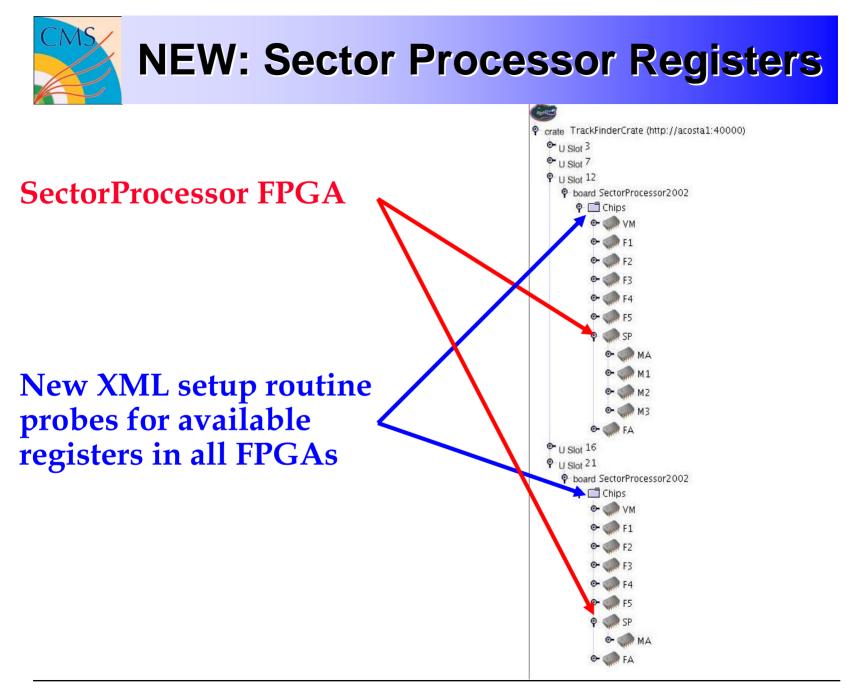
SP02 Chip Level



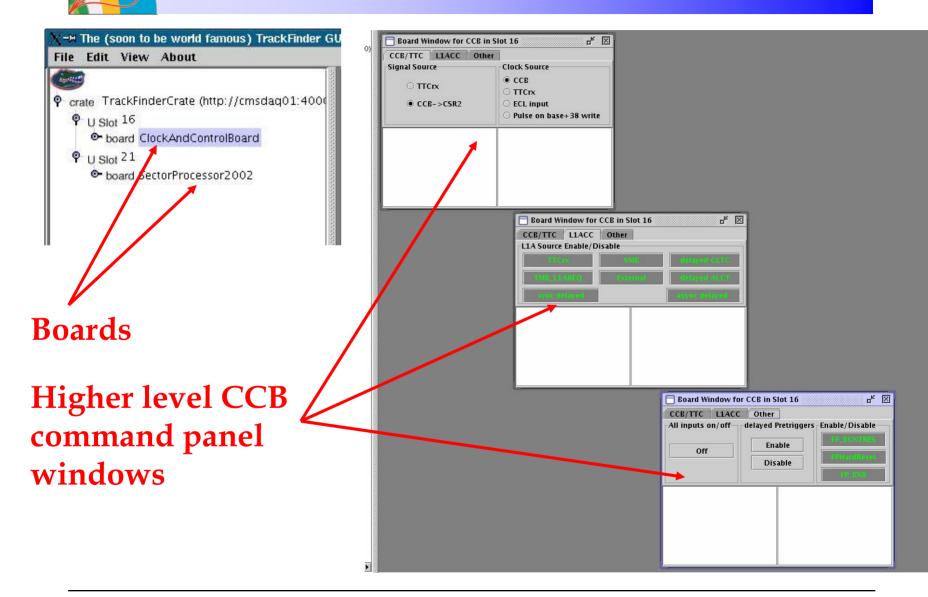


SP02 Register Level



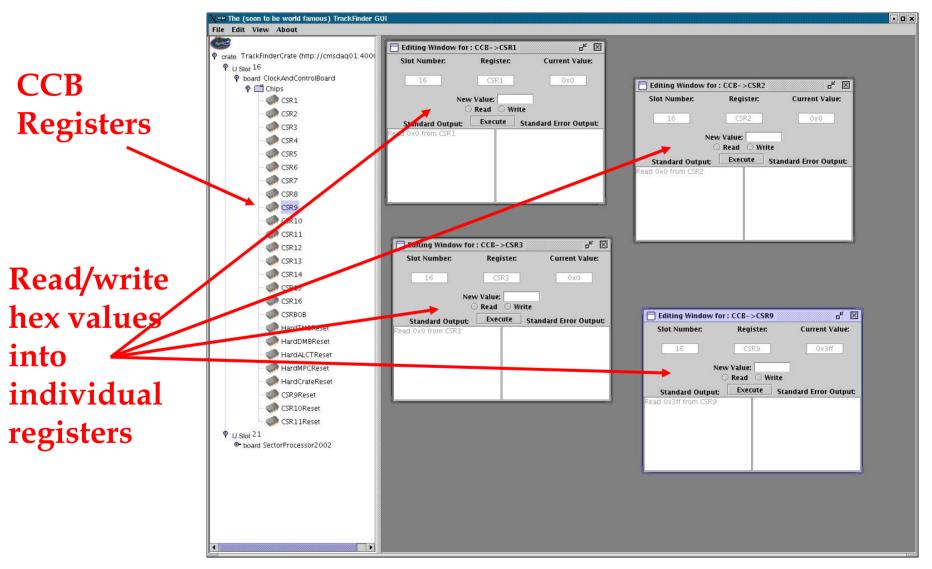


CCB Board Level





CCB Register Level





NEW: TTCvi Window

Allows for quick configuration of the TTCvi

🛅 Control Window for TTCvi in Slot 3 🖉 🖉	
L1A Select	
Random L1A	External L1A
🔿 100 KHz 🔿 50 KHz	○ 0/ecl
🔾 🔿 25 KHz 🛛 🗘 10 KHz	○ 1/nim
🔿 5 KHz 🔿 1 KHz	○ 2/nim
○ 100 Hz ○ 1 Hz	○ 3/nim
I	



Backend: System Interface

Backend currently makes calls to console programs of the TrigDAQ package

Controlled through one class for easy maintenance and possible extensions

Class can easily be modified to use SOAP messaging for XDAQ

-> emacs@localhost.localdomain	
le Edit Options Buffers Tools Java Help	
> @ × @ @ > + @ @ @ @	3 8 8
public static void execute(java.lang.St	ring cmd, javax.swing.JTextArea textarea,javax.swing.JLabel working)
ر cmdThread myThread = new cmdThread (cmd, textarea, working) ;
myThread.setPriority(java.lang.Thread)	ad.MIN_PRIORITY);
<pre>myThread.start();</pre>	
}	
class cmdThread extends java. lang. Thread	
{ public cmdThread(java.lang.String cmd,	j <mark>avax.</mark> swing. JTextArea. <mark>txtarea, javax. swin</mark> g. JLabel working)
{ command = cmd;	
textarea = txtarea; notify = working;	
}	
public void run() {	
<pre>Process p = null; Runtime r = Runtime.getRuntime(); java.lang.String retval = "";</pre>	
try	
{ retval = "";	
<pre>notify.setText("Loading!"); notify.setForeground(java.awt.Co p = r.exec(command);</pre>	plor.RED);
InputStream in = p.getInputStre	am () ;
<pre>int c; while ((c = in.read()) != -1)</pre>	
{	
<pre>} notify.setText("DONE!");</pre>	
sleep(3000);	
<pre>notify.setText("No Activity");</pre>	
notify.setForeground(java.awt.Co	plor.BLACK);
catch (Exception e)	
textarea.append("error execution	g " + command);
}	
java. lang. String command; javax. swing. JTextArea textarea; javax. swing. JLabel notify;	
}	
- ExecCommand.java (Java CVS-1.2 Abbre	sv)L11163%



Backend: XML

The TFGUI parses XDAQ address tables to generate available registers for the crate tree

The layout of boards within the crate is given by a XDAQ-style XML file made for the TFGUI



To Come

- Add MPC interface for backend (for in-Crate tests)
- Add more panels for configuration and higher level commands (in progress)
- Add panels for crate wide configuration and testing procedures
- Replace console program calls with XDAQ SOAP messages
- Add B-GO section to the TTCvi control window

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