New SC Pattern Selection Display

Ryan McClanahan, Carolina Bianchini Mattison, Mike Zelazny, Alex Ng





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Agenda

- Motivation For New Display
- New Display Features
- Demo
- Road Map

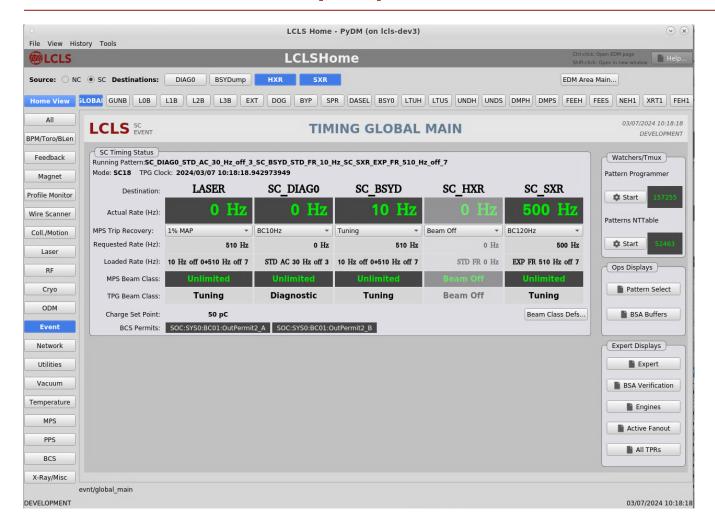


Motivation for Overhauling the Display

- Multiple Destination Patterns
 - Can do this with current system, but is not great
 - Would need to work on the pattern programmer for programmatically assigning destinations anyways
 - Makes large parts of the pattern programmer unneeded
 - New display can handle mixed fixed rate and AC timing sources
- Fix Issues with the current display
 - Display dies each time the mode changes
 - Ambiguous pattern selection
 - Ect.



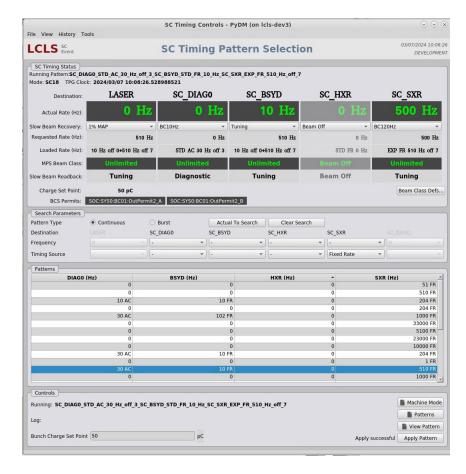
New Global Display



- Only recovery controls on the main display
- Focus on readbacks and navigation
- Timing based map to come



New Pattern Selection Display



Main differences and Philosophy

- Machine status is now at the top of the page to make the current machine status more obvious to users
- Continue to search by frequency. However, patterns with matched frequency are returned in the patterns window.
- Can search by a destination's timing source, rather than a global timing source (AC vs Fixed Rate)



Implemented Features – Status







SC Timing Status Box

Reordered statuses so they are adjacent to related statuses

Renamed statuses with more meaningful names

Changed the styling on select statuses to make the display more readable

Added Beam Class Defs related display for ease of use

Emphasized the TPG rate recover after MPS trip



Pause For Demo



Road Map - Pattern View

- 1. Add a window that has more data for the selected pattern
 - 1. UUID
 - 2. More parameters for burst patterns
 - 3. Tag system
- 2. Add more search features as needed
- 3. Add more data columns for each pattern as needed
- 4. Add 'Beam Stop' Button
- 5. Back end development

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Thank You! Questions?

Thankyou/ questions *** change style

