GRAPHICAL CREATION AND MANIPULATION OF SUBROUTINES IN VISUAL PROGRAMMING

STEPHANIE QIE
BACKGROUND

• Dataflow diagram editor
• Graphical User Interface (GUI)
• Reductus
MODULES

• Represent different functions

• Wired together to be used as operations in a program

• A module has a title, module type, configuration, input and output terminals, and x and y coordinates
GOAL

• To convert a template of wired modules into a single combined module
• Allow user to create complex templates
• Make functions flexible
COMBINED MODULE

- Contain all of modules’ data, and inputs, outputs, exposed parameters, module name
EXPAND COMBINED MODULE

• Reverts the combined module to the wired template
• Allow for modules to be updated easily
Testing

- Branched off of d3-science library
- Notepad++
- Anaconda Python
- Git Bash
CONCLUSION

• Combined module
• Expanding combined module
• Need to work on backend
ACKNOWLEDGMENTS

• Brian Maranville
• Julie Borchers
• Yamali Hernandez
• Dan Neumann

• NCNR Staff
• SHIP Program
• Center for High Resolution Neutron Scattering (CHRNS)