



THE UNIVERSITY  
*of* EDINBURGH

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# sd-visualiser: Interactive graph visualisation for SSA-based IRs

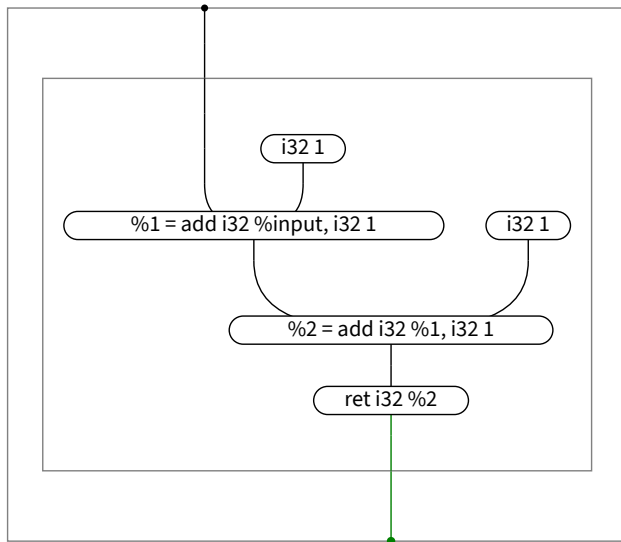
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Alex Rice, Nick Hu, Calin Tataru

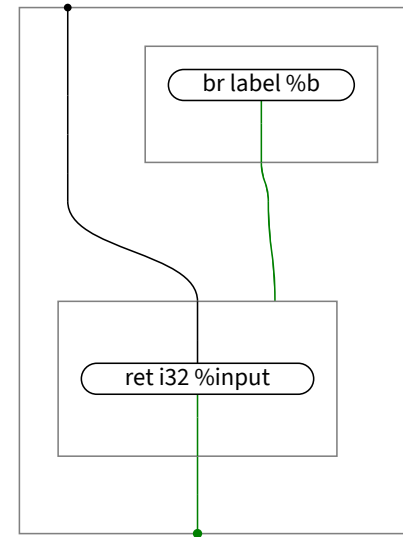
EuroLLVM 2025

# Intermediate representations as a graph

## Data flow

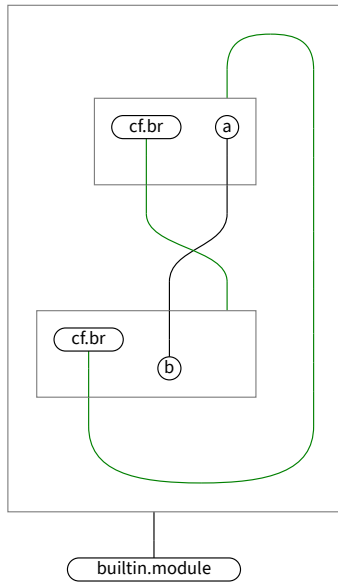


## Control flow

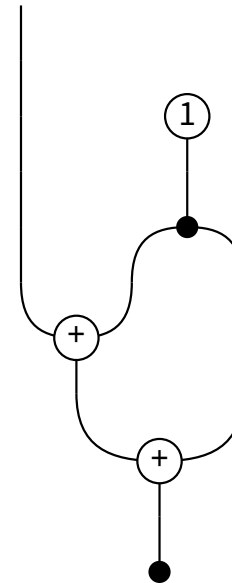


# Representing IR features

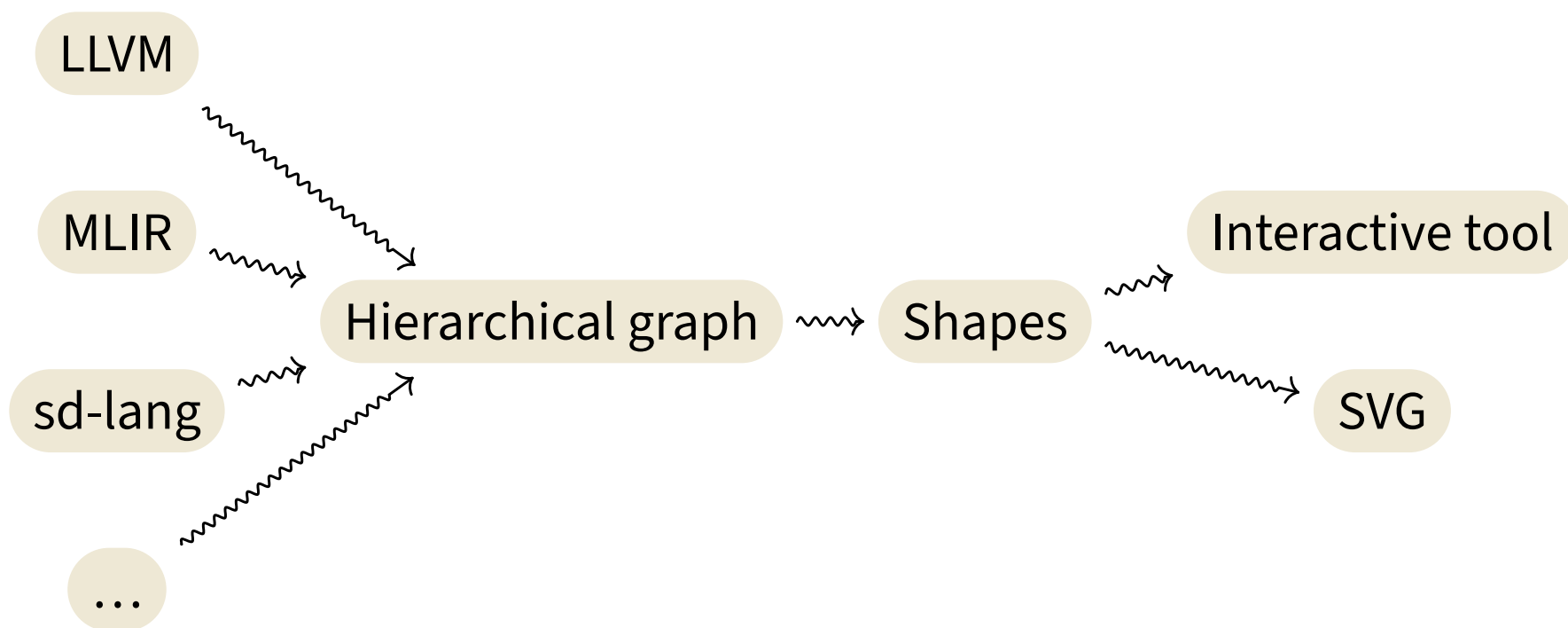
## Blocks and regions



## Copying and deletion

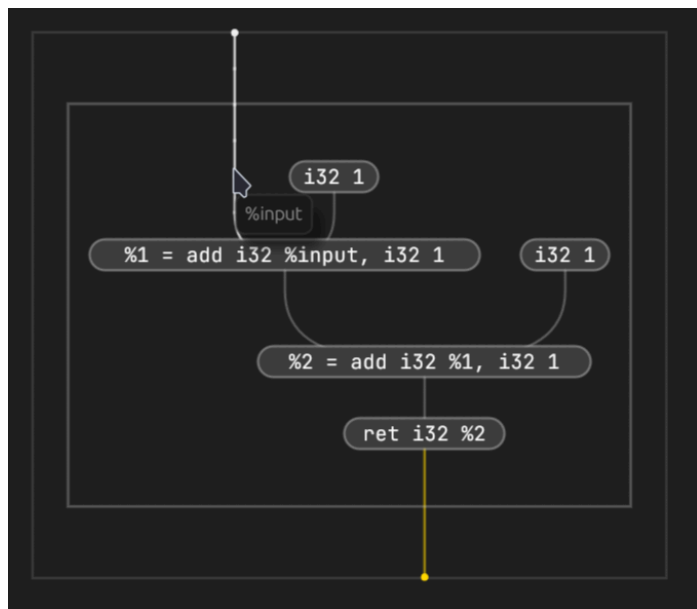


# Visualising IRs

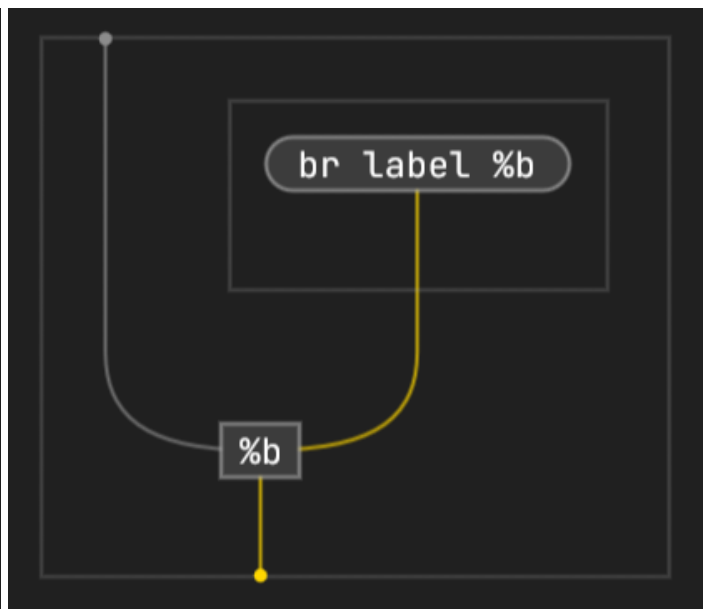


# Interactive features

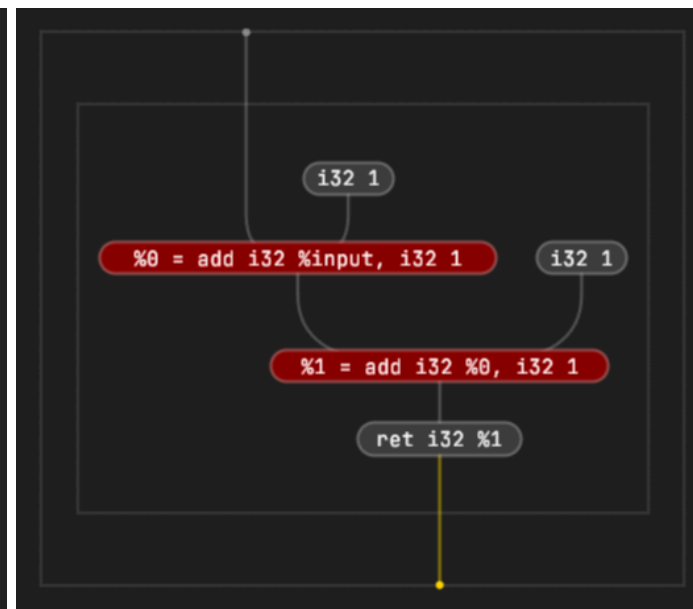
## Highlighting



## Collapsing



## Searching



**Try the tool today!**

<https://sd-visualiser.github.io/sd-visualiser>

