CLEARSY
Safety Solutions Designer

Hackathon
JUL2024

AIX
LYON
PARIS
STRASBOURG

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Subject
Block Occupancy

PART III

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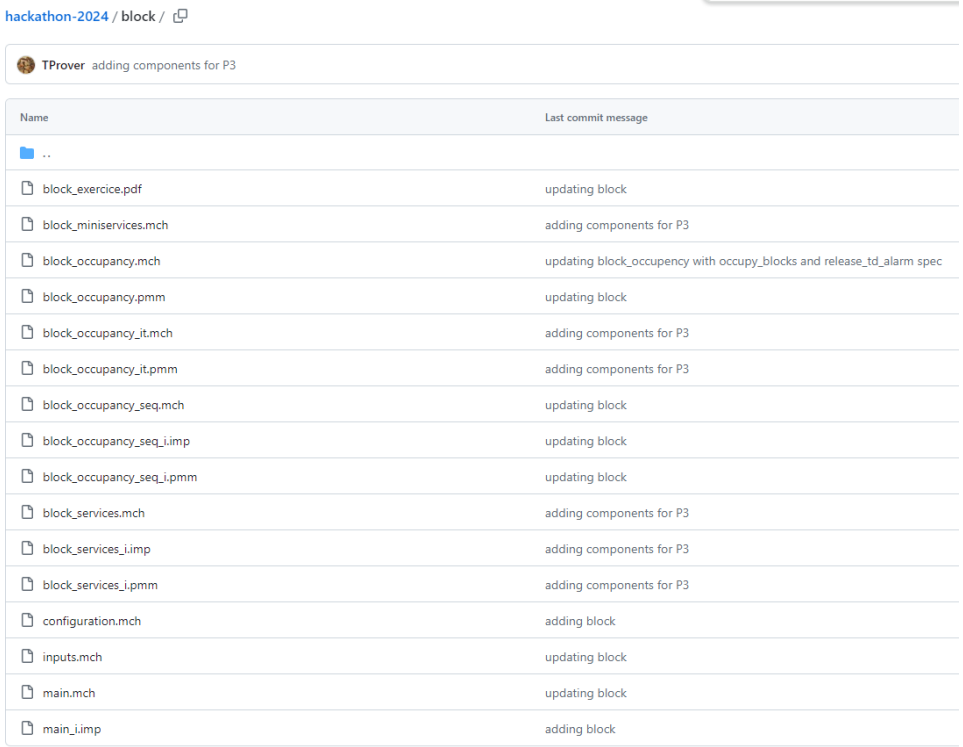
Models



hackathon-2024 / block /

TProver adding components for P3

Name	Last commit message
..	
block_exercice.pdf	updating block
block_miniservices.mch	adding components for P3
block_occupancy.mch	updating block_occupency with occupy_blocks and release_td_alarm spec
block_occupancy.pmm	updating block
block_occupancy_it.mch	adding components for P3
block_occupancy_it.pmm	adding components for P3
block_occupancy_seq.mch	updating block
block_occupancy_seq_i.imp	updating block
block_occupancy_seq_i.pmm	updating block
block_services.mch	adding components for P3
block_services_i.imp	adding components for P3
block_services_i.pmm	adding components for P3
configuration.mch	adding block
inputs.mch	updating block
main.mch	updating block
main_i.imp	adding block

https://github.com/CLEARSY/hackathon-2024

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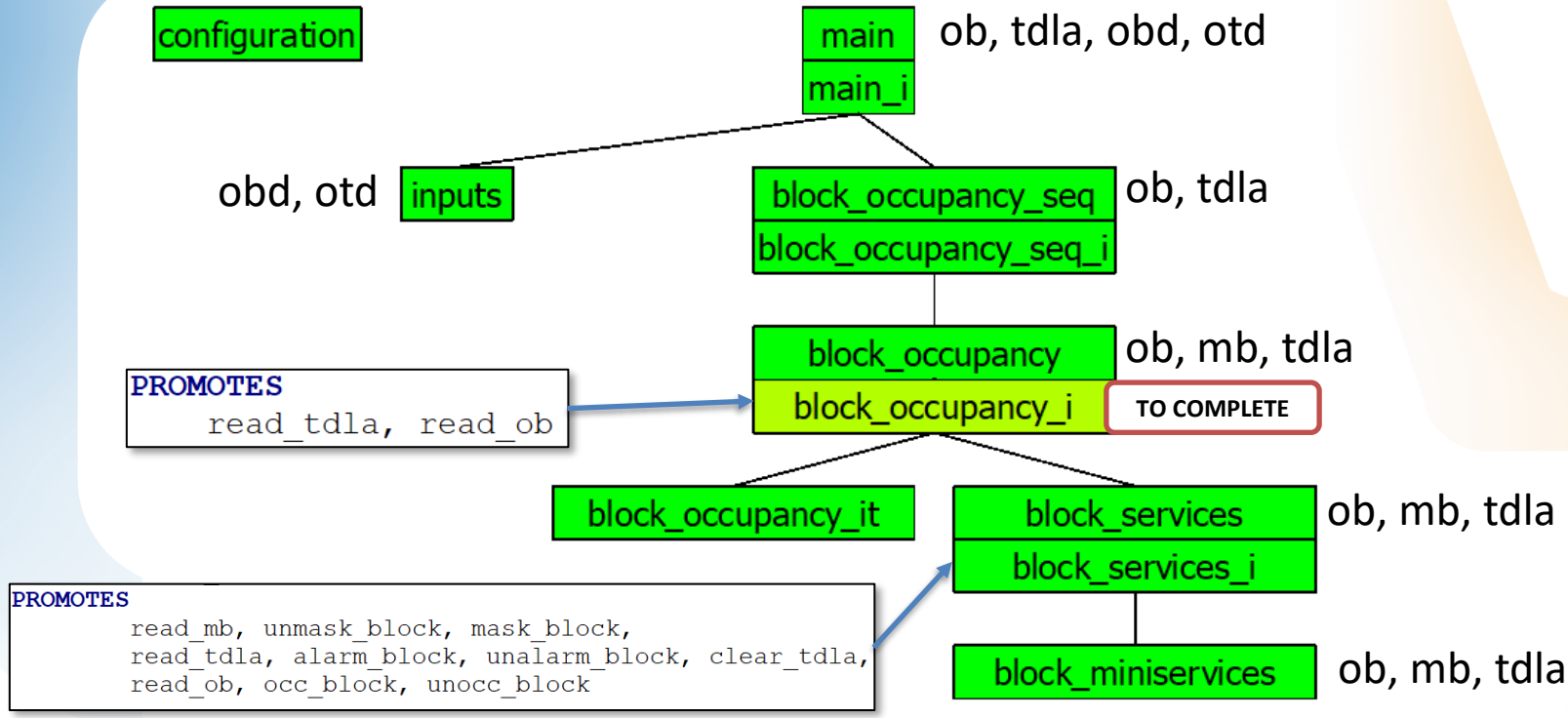
B Project Architecture



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Activities

- Implement
  - unmask blocks (1 property to add to the invariant)
  - release_tdl_alarm
  - set_tdl_alarm
  - mask_blocks
  - release_blocks
  - specify occupy_blocks

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Ranking

Block occupancy		24
	Complete unmask blocks	2
	Implement set_tdl_alarm	6
	implement mask_blocks	6
	implement release_blocks	6
	model TC, POG, PR, B0	2
	explanation	2

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