



CPS: Small: Integrated Reconfigurable Control and Moving Target Defense for Secure Cyber-Physical Systems/CNS-1739328/Oct. 1, 2017

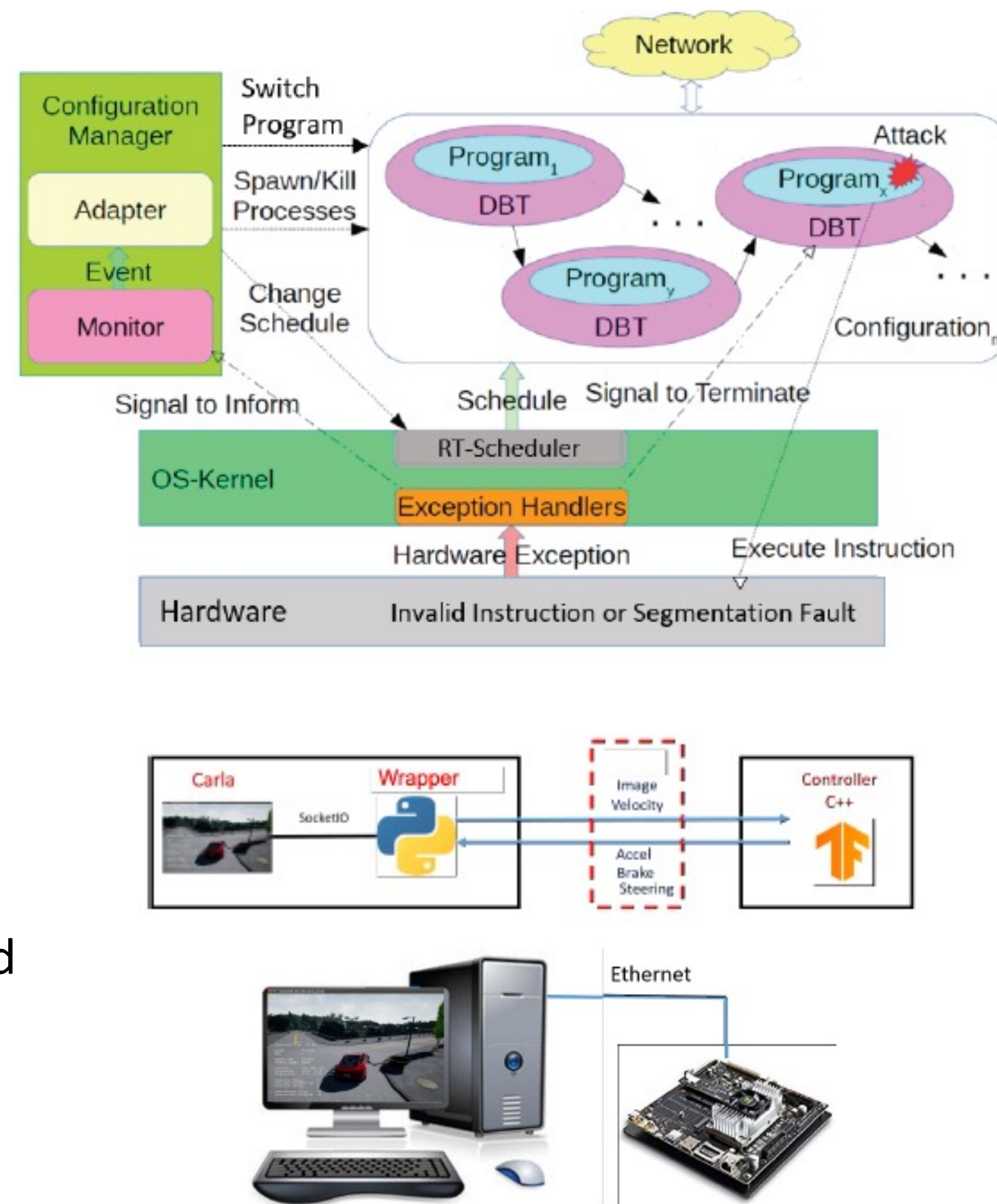
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Challenge:

- Integrated reconfigurable control and moving target defense for secure CPS

Solution:

- Security in Mixed Time and Event Triggered CPS using Moving Target Defense (nominated for best paper award in ISORC 2020)
- Real-time out-of-distribution detection in learning-enabled CPS (best paper award finalist in ICCPS 2020)



Scientific Impact:

- The project contributions can be used to protect safety-critical CPS against cyber attacks

Broader Impact:

- Tech Venture Challenge-PreLaunch program (Vanderbilt)
- 36/86 Entrepreneurship Festival (Tennessee)
- NSF I-Corps
- Won Southeast Entrepreneurship Conference's Student Pitch Competition