Asynchronous operations with OpenSIPS 2.1
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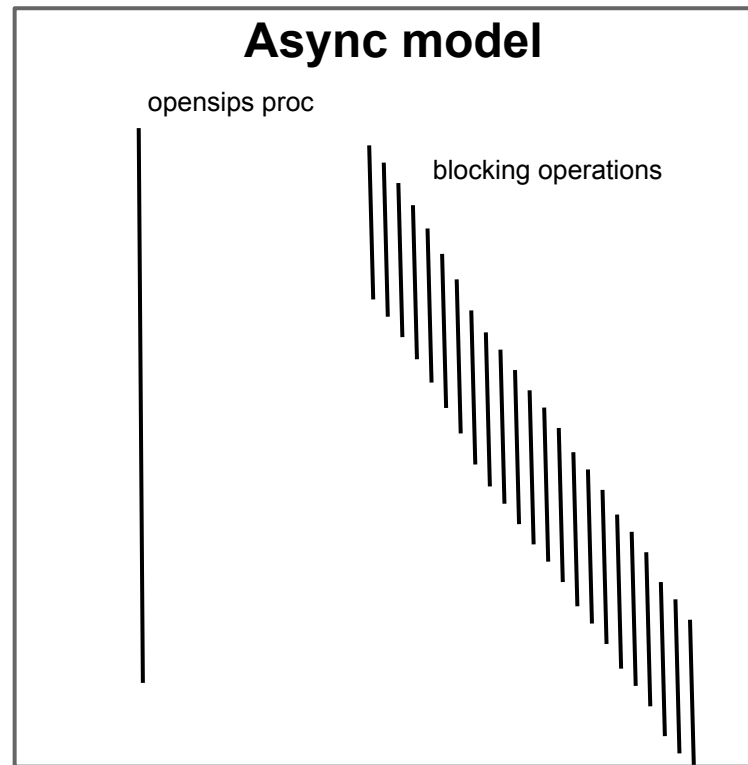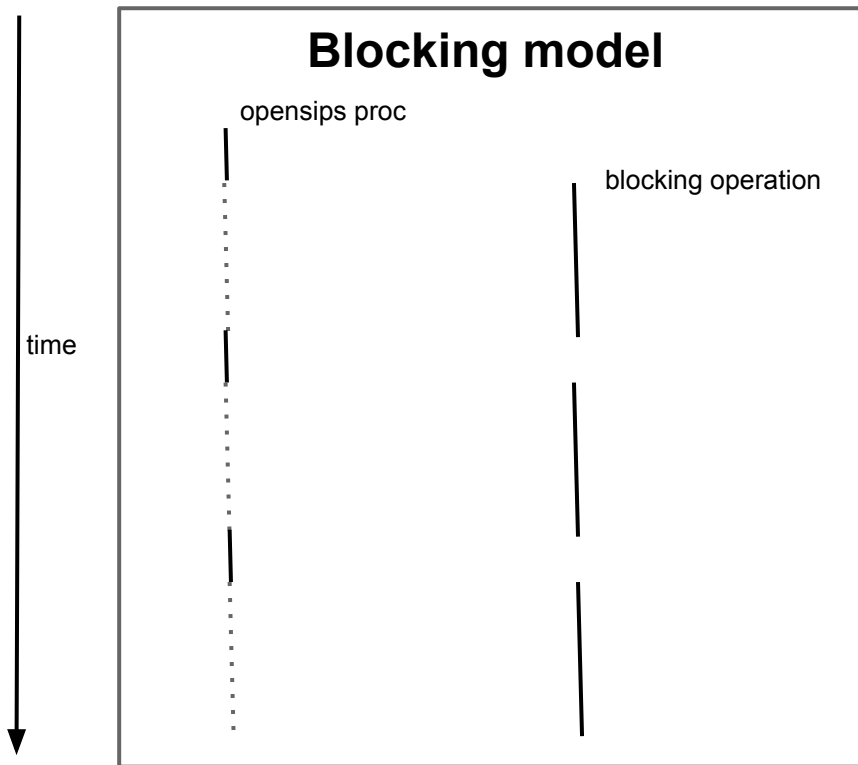
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Blocking model

opensips proc

blocking operation

time

Async model

opensips proc

blocking operations

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Description

- script functions which also have the ability to run "in the background"
- triggered via the **async**() script statement

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<u>Usage</u>

- async(blocking_function(...), resume_route);
  - avp_db_query
  - rest_get
  - exec
  - radius

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Requirements (implementation details)

- runs on top of the TM module
- all async() calls will automatically create the SIP transaction
  - async() will break the script and run the resume_route when the OP is finished

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Pros

- dramatically improves scalability of OpenSIPS scripts with blocking ops
- better resilience to external service failures
- better usage of system resources

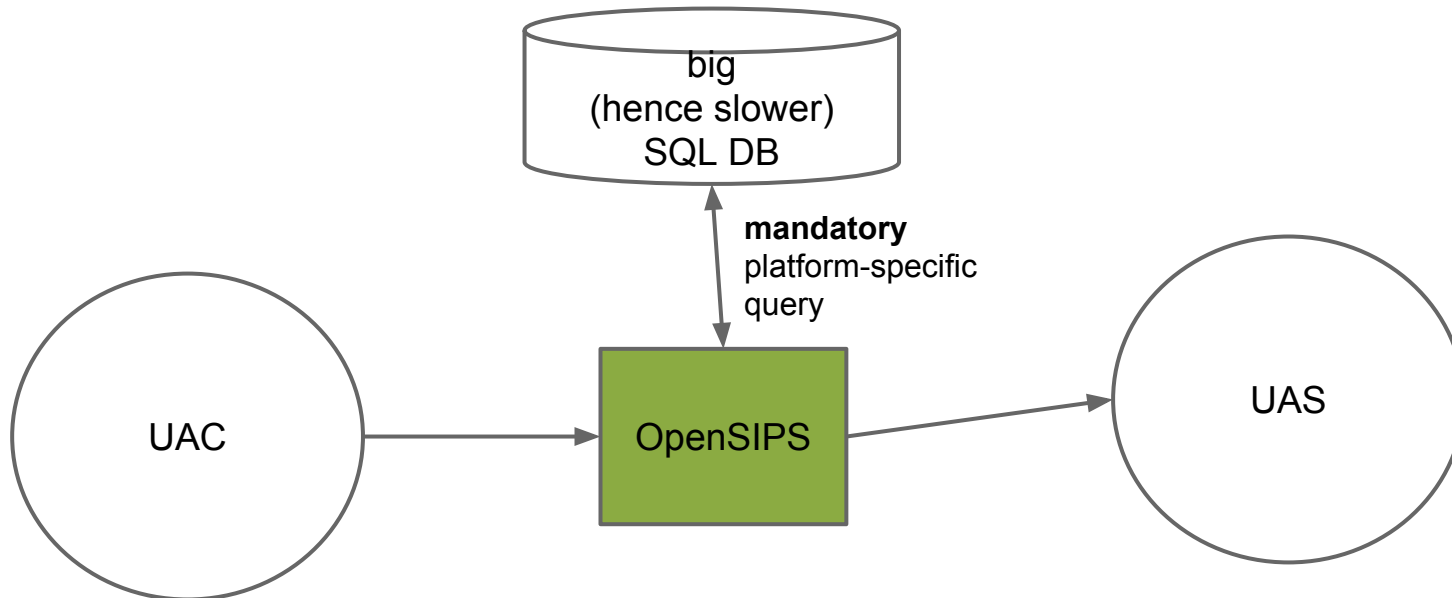# Asynchronous operations with OpenSIPS 2.1
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<u>*Cons*</u>

- suspend-resume type of OpenSIPS script logic
    - $var are not safe to be used
    - rely on $avp for porting the data after the resume_route is run
- library support is usually limited
    - MySQL official documentation doesn't even mention async!

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