

## Replication Packages Are Awesome (if they work, that is)





Who else wanted to reuse a replication package and it did not work?

Let us collect some experiences and practices to improve!



## **Timetable**

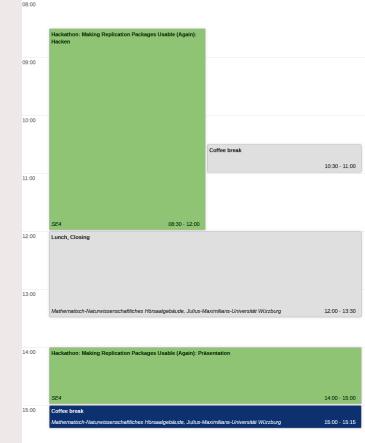
#### Full morning is planned

- Grab as many artifacts as you can/want
- Drop in/drop out at any point
- Grab coffee freely

Break during closing/lunch session

We continue after lunch

(and after the afternoon coffee break if you want)



If enough interest, we can continue ©



#### **Documentation**

#### Please annotate the readmes as follows

- <@ Artifact ID: [...]>
- <@ This did not work because [ ] [[did not] resolve it [[by ...].>
- <@ Succ</li>
   Please add as much detail as possible (more is more ;) )!
  - Could re

Make it comprehensible for us!

Could ex

If in doubt: Ask!

- <@ Stop: 1....|
  - Get following error that I cannot resolve: [...] I tried to [...].
  - Cannot reproduce results, mine differ as follows [...].
  - •



## **Documentation: Example**

```
Use <@ readme: [path]> as a header to
<@ Artifact ID: 1234567>
                                                      indicate next readme.
### Using Docker Image
Users can pull the docker image from the docker hub. All the
necessary evaluation environments have been set up.
# docker pull hustcamel/jopfuzzer:latest
# docker import JOpFuzzer-docker.tar # This process may take a few
minutes depending on the machine performance. When the process
finishes, the image ID will show on the screen.
# docker run -it [image ID] /bin/bash <@ This did not work, because I
get a runtime error on my machine. There is no indication how to fix
it.>
<@ Stop: Could not resolve error.>
# cd root/JOpFuzzer-demo
```



In case there are multiple readmes you have looked into, please append them to each

other into a single file.

# How to Select a Package and What to do?

You can work alone or as a team (2-3) if you prefer

Pick a package from our website that interests you (e.g., something you would really like to use)

Get the readme (and paper if needed) and read it

Try to follow all steps to replicate the software

Annotate the readme and fill in the survey



### Resources

https://snielebock.github.io/mrpua/

Tool for searching replication packages

Links to respective surveys/readmes/papers/...





## What Is in It for You?

We plan to write a paper with everyone

- Who is interested
- Who contributes high-quality documentation

Submitting paper to ... ? (depends on number/quality of findings)

- Preferably a good software-engineering conference or journal
- Sebastian main/first author, Jacob last, everyone else alphabetical

If you are interested, in writing/results, drop a mail with an indication to

sebastian.nielebock@ovgu.de j.kruger@tue.nl



# Questions? Ask us any time!

## https://snielebock.github.io/mrpua/

- <@ Artifact ID: [...]>
- <@ This did not work, because [...]. I [did not] resolve it [by ...].>
- <@ Success: [...]>
  - Could replicate the promised data.
  - Could execute the software.
- <@ Stop: [...]>
  - Get following error that I cannot resolve: [...] I tried to [...].
  - Cannot reproduce results, mine differ as follows [...].
- Merge multiple readmes: <@ readme: [path]>



