

The commands of running SRV are as follows, and we suggest you use the **Linux** operating system and run the commands as the **root** user.

1. Install docker

We suppose that you have installed the docker environment, otherwise please refer <https://docs.docker.com/engine/installation/> for help.

2. Start the docker environment

service docker start

2. Load the docker image of SRV.

docker load < srv.tar

3. Create the directory of result files

mkdir /root/result

4. Run the test scripts in <https://github.com/SRV-ICSE2018/SRV> . We set the time threshold to be 5 minutes in default, you can adjust it through changing the value of *period* in the running script. We take the program BMPDecoder for an example. The general command is `"/docker_runBMPDecoder arg1 arg2 arg3"`.

For the DFS mode, run

./ docker_runBMPDecoder 0 0 0

For the Slicing mode, run

./ docker_runBMPDecoder 0 1 0

For the Guiding mode, run

./ docker_runBMPDecoder 1 0 0

For the SRV mode, run

./ docker_runBMPDecoder 1 1 1

5. Run the experimental script of ICSE. Download the two scripts: docker_ICSE and docker_runICSE from <https://github.com/SRV-ICSE2018/SRV> , run

./docker_ICSE

6. Check the running results

the results are stored in the directory /root/result that you created in step 4. For example, **TestBMPwithSlicing.0.0.result**, **TestBMPwithSlicing.0.1.result**, **TestBMPwithSlicing.1.0.result**, and **TestBMPwithSlicing.1.1.result** are the result files for the **DFS** mode, pure **path slicing** mode, pure **guiding** mode and **SRV** mode, respectively. At the bottom of the result file, you can find the detailed running

statistics, e.g., the iterations and time consumption for verifying the program.