

The commands of running RGSE 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 RGSE.

docker load < rgse.tar

3. Create the directory of result files

mkdir /root/result

4. Running the test scripts downloaded from <https://github.com/jrgse/demo>. 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"`, where arg1 is the flag for guiding, and arg2 is the flag for slicing.

For the DFS mode, run

./ docker_runBMPDecoder 0 0

For the Slicing mode, run

./ docker_runBMPDecoder 0 1

For the Guiding mode, run

./ docker_runBMPDecoder 1 0

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**, and **TestBMPwithSlicing.1.0.result** are the result files for the **DFS** mode, pure **path slicing** mode, and **guiding** mode, respectively. At the bottom of the result file, you can find the detailed running statistics, e.g., the iteration and time consumption for finding the first accepted path.

If you have any problems, please feel free to contact hengbiaoyu@nudt.edu.cn or zbchen@nudt.edu.cn. Thanks a lot!