Conda activate tf1

Preprocessed path (after path-constraints-main)-

/home/amit.zr/infoSecurityProj/bin2name/server\_side/binary2name/preprocessed\_data/nero/

Path of exe files to analyze-

/home/amit.zr/infoSecurityProj/bin2name/server\_side/binary2name/our\_dataset/nero\_ds/

Command to run the symbolic execution

python3 run\_pproc.py --output\_dir nero --dataset\_dir nero\_ds --log\_dir nero\_logs --cpu\_no 30 --mem\_limit 10 --no\_usables\_file --predict

The (json) output from the Symbolic execution is in the path:

binary2name/preprocessed\_data/nero

Output Jsons from output-converter:

binary2name/preprocessed\_data/Converted\_nero

Output-Converter command:

yes | python3 output\_converter.py --train 0 --test 100 --val 0 --dataset\_name nero --sample\_path 1 --sample\_constraint 3 --predict

Output from the output-Converter should be in the path (all the jsons combined):

binary2name/ready\_data/

More commands after we got the combined JSON

grep . ready\_data/ready\_nero/train.json > ready\_data/ready\_nero/train.json\_

mv ready\_data/ready\_nero/train.json\_ ready\_data/ready\_nero/train.json

grep . ready\_data/ready\_nero/validation.json > ready\_data/ready\_nero/validation.json\_

mv ready\_data/ready\_nero/validation.json\_ ready\_data/ready\_nero/validation.json

grep . ready\_data/ready\_nero/test.json > ready\_data/ready\_nero/test.json\_

mv ready\_data/ready\_nero/test.json\_ ready\_data/ready\_nero/test.json

mkdir -p nero/nero/procedure\_representations/raw/bin2name

cp ready\_data/ready\_nero/train.json nero/nero/procedure\_representations/raw/bin2name/train.json

cp ready\_data/ready\_nero/validation.json nero/nero/procedure\_representations/raw/bin2name/validation.json

cp ready\_data/ready\_nero/test.json nero/nero/procedure\_representations/raw/bin2name/test.json

cd nero/nero

python3 ../preprocess.py -trd procedure\_representations/raw/bin2name/train.json -ted procedure\_representations/raw/bin2name/test.json -vd procedure\_representations/raw/bin2name/validation.json -o data

Data.test should now be in:  
binary2name/nero/nero/

After that we need to put the data.test file in:

nero/procedure\_representations/preprocessed/bin2name

Then run the command:

python3 -u gnn.py --test nero/procedure\_representations/preprocessed/bin2name/data.test --load /home/amit.zr/infoSecurityProj/bin2name/server\_side/binary2name/nero/nero/new\_model/model\_iter\_last --gnn\_layers 4