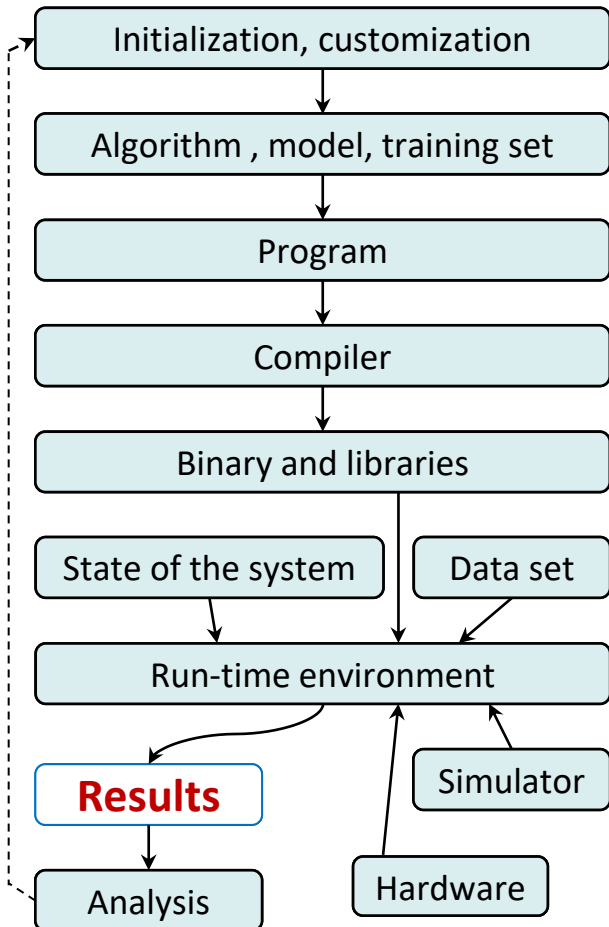


## Typical directory structure of an experimental pack shared for Artifact Evaluation



**scripts/** download\_dataset.sh  
 download\_dnn\_model.bat  
 init\_setup\_rpi3\_gcc7.1.0.sh  
 init\_setup\_windows10.bat  
 init\_setup\_android.sh  
 list\_programs.sh  
 compile\_program.py  
 run\_program.py  
 analyze\_results.sh  
 build\_predictive\_model.bat  
 plot\_graph.sh

**programs/** bzip2  
 classify-image  
 decode-video-stream

**datasets/** jpg-images/ 1.jpg, 2.jpg, 3.jpg  
 png-images  
 videos

**third-party-tools/** gcc-7.1.0  
 llvm-4.0  
 opencl-profiler, cuda-profiler  
 arch-simulator  
 caffe, caffe2, tensorflow, cntk, mxnet  
 clblast, open-blas, viennacl, libdnn

**some-meta/** gcc-7.1.0-compiler-flags.txt  
 llvm-4.0-compiler-flags.txt  
 rpi3-hw-description.txt

**some-results/** reference-speedups.txt  
 predictions.csv  
 graph-autotuning-rpi3.xls

## Unified experimental pack in the CK format

**.ckr.json** - CK repo name, UID and deps on other CK repos  
**module/** **program** / module.py – unified CK JSON API  
 (functions: compile, run, autotune)

**dataset**  
**package**  
**result**  
**jnotebook**

**.cm/** - UIDs for each CK module  
**program/** bzip2  
 bzip2/.cm/meta.json - JSON meta for all CK entries  
 bzip2/ \*.c – program sources

classify-image  
 decode-video-stream

**.cm** - UIDs for each CK entry (similar to DOI)

**dataset/** image-jpeg-0001  
 video-frame-0001

**package/** compiler-gcc-7.1.0  
 compiler-llvm-4.0  
 tool-dvdt-proof  
 lib-caffe-master-cpu  
 lib-tensorflow-master-opencl

**result/** cgo2017-paper  
 zlib-autotuning-rpi3

**jnotebook/** cgo2017-workflow  
 cgo2017-graph  
 rpi3-gcc-autotuning