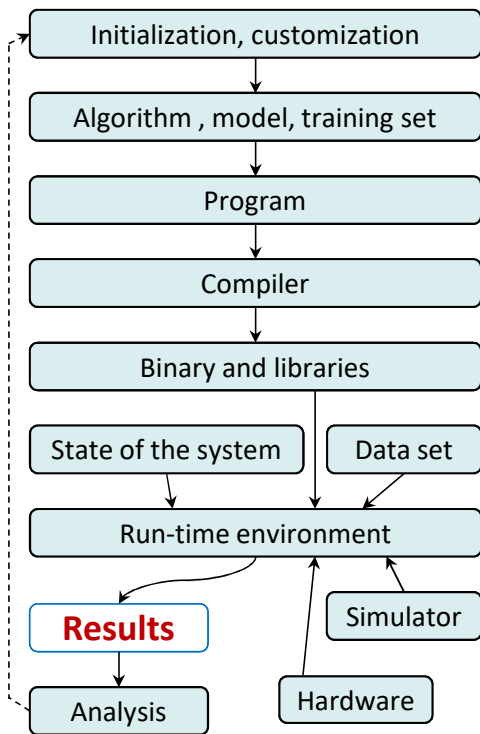


Typical directory structure of an experimental pack shared for Artifact Evaluation



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
 openccl-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-openccl

result/ cgo2017-paper
 zlib-autotuning-rpi3

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