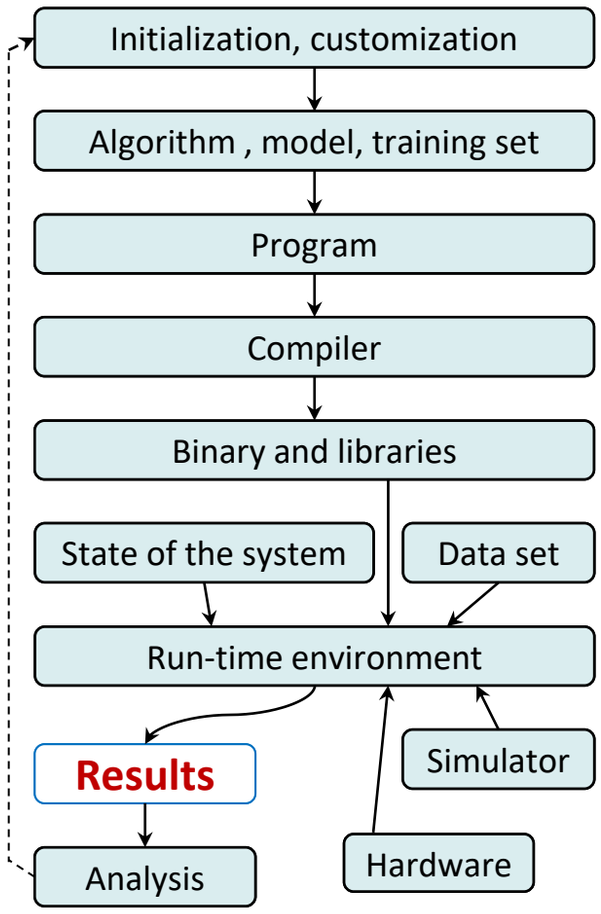
Typical directory structure of an experimental pack shared for Artifact Evaluation



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
clbast, 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.cvs
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*
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