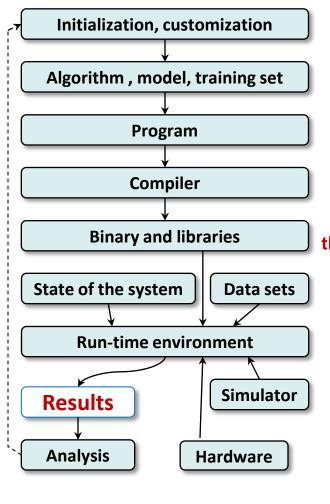
Typical directory structure of an ad-hoc experimental pack shared for Artifact Evaluation

Experiment workflow



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, openblas, 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

Reorganize objects with common actions and meta info into 2 level directories with auto-generated Unique ID, Python module (object API) and JSON meta information

Example:

Programs

zlib,bzip2,susan,caffe,tensorflow

has common actions:

compile, run, autotune

Convert code and data into CK repo (2 main dir. levels)

1 level 2 level (API) (entry) .ckr.json - repo desc. including deps on other repos module:/program:/module.py – unified CK JSON API (functions: compile, run, autotune) must be /.cm/meta.json – JSON description the same. of a program module program /zlib /*.c ... - program sources, build files /.cm/meta.json - JSON desc of zlib /* - UID for zlib /.cm .cm /* - UIDs for module and program

(a)

(b)