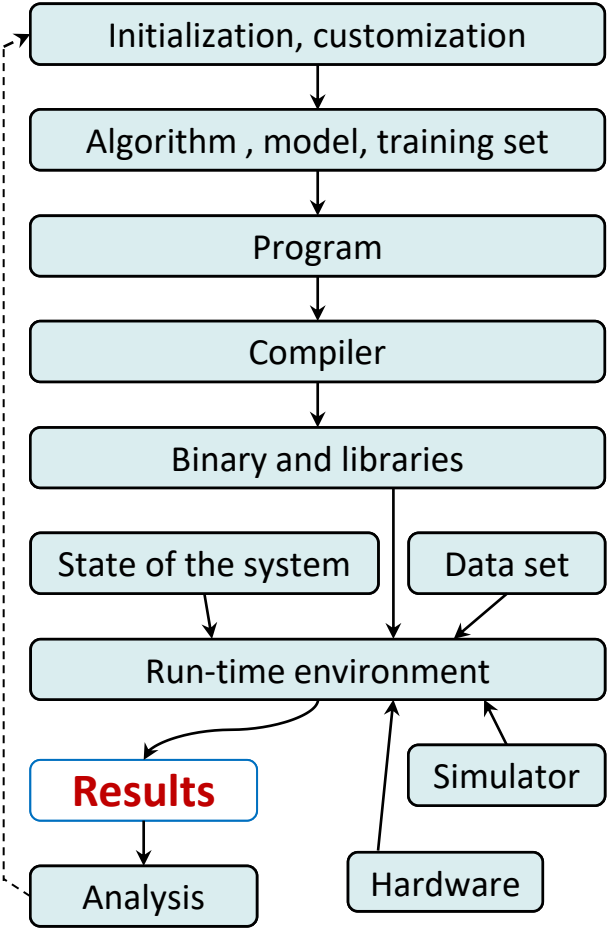


# Typical directory structure of an ad-hoc experimental pack shared for Artifact Evaluation



- 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, 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

Organize objects with common actions and meta info into discoverable, reusable and shareable Collective Knowledge entries with auto-generated Unique ID, JSON meta data and Python module (wrapper) with unified JSON API

Example:

Programs

*zlib, bzip2, susan, caffe, tensorflow*

has common actions:

*compile, run, autotune*

Pack them to a CK repository (2 CK dir levels)		
1 level	2 level	
<b>.ckr.json</b>		- CK desc including deps on other repos
<b>module</b>	<b>/program</b>	<b>/module.py</b> – unified CK JSON API (functions: compile, run, autotune)
	<b>/program</b>	<b>/.cm/meta.json</b> – JSON description of a program module
<b>program</b>	<b>/zlib</b>	<b>/*.c ...</b> - program sources, build files
	<b>/zlib</b>	<b>/.cm/meta.json</b> - JSON desc of zlib
	<b>/.cm</b>	<b>/*</b> - UID for zlib
<b>.cm</b>	<b>/*</b>	- UIDs for module and program