CAPI SNAP commands summary (use vi, gedit or nano as editors)



Steps	Effect of the command	Files used	Working directory	Command used	Target
	Clone snap	-	~	git clone https://github.com/open-power/snap	
	Clone psise	-	~	git clone https://github.com/ibm-capi/pslse	
Setup the environment	Prepare environment setting	snap_env.sh	~/snap	edit snap_env.sh	X86
	Compile SNAP environment	-	~/snap	make software	
	Clean SNAP environment	-	~/snap	(make clean_config) (optional)	
	Set SNAP environment	snap_env.sh	~/snap	make snap_config	
Step 1		snap_helloworld.c+	1, , , , , , , , , , , , , , , , , , ,		
Run sw action on CPL	compile all sw	action_lowercase.c+	~/snap/actions/hls_helloworld/sw	make	x86 or Power8
	execute all sw	/tmp/t1	~/snap/actions/hls_helloworld/sw	SNAP_CONFIG=CPU ./snap_helloworld -i/tmp/t1 -o/tmp/t2	
	consent Changestion to DTI		a/anan/astiana/bla ballawand/bw		
Step 2 simulate hw action	convert C hw action to RTL	action_uppercase.cpp	~/snap/actions/hls_helloworld/hw	make (can be optional since done by make model)	-
	compile all hw design for simulation	action_uppercase.cpp	~/snap	make model	0.5
		snap_helloworld.c+		cd hardware/sim && ./run_sim	x86
	simulate hw action	action_uppercase.cpp +	~/snap/hardware/sim	(#SIMU_terminal\$) snap_maint -vv	
		/tmp/t1		(#SIMU_terminal\$) snap_helloworld -i/tmp/t1 -o/tmp/t2	
Run hw action on FPGA	compile all hw design for FPGA	snap_helloworld.c + action_uppercase.cpp	~/snap	make image	x86
	Copy the binary file generated by the make image to P8 + Flash the FPGA + connect to P8	fw_xxx_xx.bin	~snap/hardware/build/Images	Environment dependent	x86
Run hw action on FPGA (Power8)			~	git clone https://github.com/open-power/snap	
	Clone the snap and compile it		~	export ACTION_ROOT=\${HOME}/snap/actions/hls_helloworld	Power8
	cione the shap and complient		~/snap	cd snap && source snap_path.sh	
			~/snap	make software apps	
	Localize slot of the card to be used	d	~/snap	snap_find_card –v –A ALL	d) Power8
	Run discovery mode			snap_maint -vv -Cx (x is the card slot found by snap_find_card)	
	Execute snap_helloworld program	/tmp/t1	~/snap	snap_helloworld -i/tmp/t1 -o/tmp/t2 -Cx	Power8

CAPI SNAP commands summary for Nimbix (use vi, gedit or nano as editors)



Steps	Effect of the command	Files used	Working directory	Command used	Target
	Clone snap	-	~	git clone https://github.com/open-power/snap	
	Checkout cloud support release	-	~	cd snap && git checkout \$CLOUD_BRANCH	
Setup the	Prepare environment	snap_env.sh	~/snap	cp \$HOME/snap_env.sh . && source snap_env.sh	VOC
environment	Compile SNAP environment	-	~/snap	make software	X86
	Clean SNAP environment	-	~/snap	(make clean_config) (optional)	
	Set SNAP environment	snap_env.sh	~/snap	make snap_config (select cloud build option for Nimbix)	
Step 1					
Run sw action on CPU	compile all sw	snap_helloworld.c + action_lowercase.c +	~/snap/actions/hls_helloworld/sw	make	x86 or
	execute all sw	/tmp/t1	~/snap/actions/hls_helloworld/sw	SNAP_CONFIG=CPU ./snap_helloworld -i/tmp/t1 -o/tmp/t2	Power8
	convert C hw action to RTL	action_uppercase.cpp	~/snap/actions/hls_helloworld/hw	make (can be optional since done by make model)	
Step 2 simulate hw action	compile all hw design for simulation	action_uppercase.cpp	~/snap	make model	x86
	simulate hw action	snap_helloworld.c + action_uppercase.cpp + /tmp/t1	~/snap/hardware/sim	cd hardware/sim && ./run_sim (#SIMU_terminal\$) snap_maint -vv (#SIMU_terminal\$) snap_helloworld -i/tmp/t1 -o/tmp/t2	
				•	
Run hw action on FPGA (x86)	compile all hw design for FPGA	snap_helloworld.c+ action_uppercase.cpp	~/snap	make image	x86
	Flash the FPGA + connect to P8	\$DCP_ROOT/JARVICENAE_xx x.tar.gz	~/snap	deployToPower.sh (Nimbix only)	x86
Step 3			~	git clone https://github.com/open-power/snap	
Run hw action on			~	cd snap && git checkout \$CLOUD_BRANCH	D
	Clone the snap and compile it		o /onen	export ACTION_ROOT=\${HOME}/snap/actions/hls_helloworld	Power
			~/snap ~/snap	source snap_path.sh make software apps	
EDC A			,	(snap find card –v –A ALL) (optional)	
FPGA	Localize available cards				Power8
FPGA (Power8)	Localize available cards Run discovery mode		~/snap	snap_maint -vv	Power