```
Workflow "scc19 challenge" {
  resolves = "generate vtk output"
}

action "build" {
  uses = "./workflows/containerized/actions/normalmodes"
  runs = "./workflows/containerized/scripts/build.sh"
  env = {
    # Makefiles using MKL
    PEVSL_MAKEFILE_IN = "./workflows/containerized/makeconf/pEVSL_mkl.i
    NORMALMODES_MAKEFILE_IN = "./workflows/containerized/makeconf/Norma
    NUM_BUILD_JOBS = "1"
  }
}

action "run quick test" {
  needs = "build"
  uses = "./workflows/containerized/actions/normalmodes"
  runs = [
    "sh", "-c", "cd ./submodules/pEVSL/TESTS/Lap/run-test.sh"
  ]
}

action "execute" {
  needs = "run quick test"
  uses = "./workflows/containerized/actions/normalmodes"
  runs = "./workflows/containerized/scripts/run.sh"
  env = {
    MPI_NUM_PROCESSES = "1"
    # input parameters defined in global_conf file of this directory
    INPUT_DIR = "submodules/NormalModes/demos/"
  }
}

action "validate execution" {
  needs = "execute"
  uses = "actions/bin/sh@master"
  runs = "./workflows/containerized/scripts/validate.sh"
}

# input parameters defined in visualCmain.m file
action "generate vtk output" {
  needs = "validate execution"
  uses = "docker://popperized/octave:4.4"
  args = "./workflows/containerized/scripts/visualCmain.m"
```