**SOWFA CANNOT FIND ZEROMQ LIBRARIES**

**Description:**   
SOWFA cannot find the ZeroMQ libraries on your cluster

**Error example:**

pisoFoamTurbine.ALMAdvanced: error while loading shared libraries: libzmq.so.5: cannot open shared object file: No such file or directory

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Primary job terminated normally, but 1 process returned

a non-zero exit code.. Per user-direction, the job has been aborted.

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mpirun detected that one or more processes exited with non-zero status, thus causing

the job to be terminated. The first process to do so was:

Process name: [[22822,1],0]

Exit code: 127

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**Solution:**   
Make sure you have defined the ZeroMQ paths *in your runscript.solve* function. An example is given here:

#!/bin/bash

#PBS -l nodes=1:ppn=40

#PBS -N "naveenZmqWSE"

##PBS -q guest

# User input

startTime=0 # Start time

cores=40 # Enter the number of cores you will preprocess on.

runNumber=1 # Enter the run number (useful for keeping track of restarts).

solver=windPlantSolver.ALMAdvanced # Enter the name of the flow solver.

cd $PBS\_O\_WORKDIR

echo "Starting OpenFOAM job at: " $(date)

echo "using " $cores " cores"

# Load the OpenFOAM module on the cluster

echo "Loading the OpenFOAM module..."

module load openfoam/2.4.0

module load matlab

# define the ZeroMQ paths

export ZEROMQ\_INCLUDE=$HOME/OpenFOAM/zeroMQ/libzmq/install/include

export ZEROMQ\_LIB=$HOME/OpenFOAM/zeroMQ/libzmq/install/lib64

export LD\_LIBRARY\_PATH=$HOME/OpenFOAM/zeroMQ/libzmq/install/lib:$LD\_LIBRARY\_PATH

export LD\_LIBRARY\_PATH=$HOME/OpenFOAM/zeroMQ/libzmq/install/lib64:$LD\_LIBRARY\_PATH

# Get the control dictionary for this particular run.

cp system/controlDict.$runNumber system/controlDict

# Run the solver.

(mpirun -np $cores $solver -parallel > log.$runNumber.$solver 2>&1) &

(cd ssc; matlab -nodisplay -noFigureWindows -logfile 'SSC\_out.log' -r SSC)

echo "Ending OpenFOAM job at: " $(date)