

### setup\_path script

Included in other scripts to setup paths to components and libraries.

```
export SIDL_DLL_PATH=""

DL_PATH=$BABEL_ROOT/lib
for i in `ls $TUT_COMP_ROOT | grep component`; do
    DL_PATH=$DL_PATH:$TUT_COMP_ROOT/$I;
done

export LD_LIBRARY_PATH=$DL_PATH
export SIDL_DLL_PATH=`echo $LD_LIBRARY_PATH | sed 's/:/;/g'`
```

CCA
Common Component Architecture

Ccaffeine Convenience Scripts

### run\_cmdline script

- •Run a single interactive job using command line.
- •Format: run\_cmdline <full\_path\_to\_rc\_file>

#!/bin/sh

export TUT\_COMP\_ROOT=`pwd`

• \$TUT\_COMP\_ROOT/setup\_path

\$CCAFE\_HOME/cxx/dc/user\_iface/ccafe-single --ccafe-rc \$1



## run\_gui script

- •Run a single interactive job using the GUI
- •Format: run\_gui <full\_path\_to\_gui\_rc\_file>

```
#!/bin/sh
export TUT_COMP_ROOT=`pwd`

• $TUT_COMP_ROOT/setup_path

$CCAFE_HOME/cxx/dc/user_iface/ccafe-single --type server --port 3314 \
--ccafe-rc $1 &
sleep 2
$CCAFE_HOME/bin/runGUI --builderPort 3314
```

3



Ccaffeine Convenience Scripts

# run\_gui\_parallel script (1)

```
#!/bin/sh -f
# Format: run_gui_parallel <num_proc> <full_path_to_gui_rc_file>
# Configuration stuff
export mpirun=/usr/local/bin/mpirun
export CLASSPATH=$CCAFE HOME/java:$CLASSIC CCA ROOT/java
export gui=$CCAFE HOME/bin/runGUI
export TUT_COMP_ROOT=`pwd`
export javaopts=" -Djava.compiler=NONE -classpath $CLASSPATH"
export CCAFFEINE OUT DIR=`pwd`
export procfile="/tmp/processors.$$"
export machfile="/tmp/machines.$$"
# This tells CCAFFEINE to put the frameworks output streams
# into the current directory, into files named pOutN and
\# pErrN, where N is the process number (starting from 0).
echo "Look for application output in pOut[01] and pErr[01] in
this directory"
```



## run\_gui\_parallel script (2)

```
# Create a 'processors' file to tell the framework where to
# find itself and the GUI.
echo 127.0.0.1 server > $procfile
while [ $i -lt $1 ]
              client >> $procfile
   echo $i
  i=`expr $i + 1`
done
# Create the mpirun machines file
echo 127.0.0.1 > $machfile
# Start the GUI and wait briefly to give it a chance to
# initialize
echo Launching multiplexer...
java $javaopts
    gov.sandia.ccaffeine.dc.distributed.MuxingProcess \
     --name 127.0.0.1 --timeout 0 --file \$procfile &
sleep 3
```

5



Ccaffeine Convenience Scripts

# run\_gui\_parallel script (3)



### run\_client script

#!/bin/sh

#### TUT\_COMP\_ROOT cannot be `pwd` for mpirun reasons #####

export TUT\_COMP\_ROOT=/home/elwasif/CCA/tutorial/src/sidl

• \$TUT\_COMP\_ROOT/setup\_path

**\$CCAFE HOME/cxx/dc/user iface/ccafe-client \$\*** 

7



Ccaffeine Convenience Scripts

# tutorial\_rc\_gui Ccaffeine rc file

```
#!ccaffeine bootstrap file.
# ----- don't change anything ABOVE this line.----
path set /home/elwasif/CCA/tutorial/src/sidl/random-component-c++
path append /home/elwasif/CCA/tutorial/src/sidl/function-component-c++
path append /home/elwasif/CCA/tutorial/src/sidl/integrator-component-c++
path append /home/elwasif/CCA/tutorial/src/sidl/driver-component-c++
repository get randomgen.RandRandomGenerator
repository get functions.LinearFunction
repository get functions.PiFunction
repository get functions.NonlinearFunction
repository get integrators.MonteCarloIntegrator
repository get integrators.ParallelIntegrator
repository get integrators.ParallelIntegrator
repository get tutorial.Driver
```