CFrame Docker Operations

Prerequisites

Docker:

Install Docker and Docker compose.

Refer to: https://docs.docker.com/compose/install/

Windows only:

To run the sample qtosgboostviewer application, an X window server emulator must be installed.

XLaunch has been tested an known to work, see: https://sourceforge.net/projects/xming/

Install and run it with all default options selected.

Operations

All commands are executed from the `CFrame/docker/cframe directory`

Start the containers:

```
docker-compose up -d
```

Verify running containers:

```
docker-compose ls
```

Stop the containers:

```
docker-compose down
```

The following operations can either be done from the Host or from within the Container.

To enter into a bash shell in existing container from the Host:

```
docker exec -it cframe-cppdev-1 bash
```

Compile the Sample

From Within Docker Container:

```
cd ~/source/Cframe/docker/cframe
```

```
./container-build-sample
```

From the Host:

```
cd /path/to/CFrame/docker/cframe
```

```
./host-build-sample
```

Run the Sample

From within the Container:

```
cd ~/source/CFrame/docker/cframe
```

```
./container-run-sample
```

From the Host:

```
cd /path/to/CFrame/docker/cframe
```

```
./host-run-sample
```

Operating the Sample

Once the example qtosgboostviewer application is running (see above)

```
Select menu: File->Open
```

```
Select: models/testSphere.osg
```

A sphere object should appear.

Use the following mouse buttons to operate camera view:

- Left Mouse: Rotate
- Middle Mouse: Pan
- Right Mouse: Zoom

NOTE: On Linux the mouse controls do not function properly.