

model.zip]]// - save the file where you would normally save motion capture files. these sample qualysis files were downloaded from [[http://www.c3d.org/sampled.html|c3d.org]] === step 1 - open cmo file === |1. from the file menu, select **open/add...**, choose //model.cmo// \ \ \ 2. from the workspace status screen, verify the model file named standing_hybrid_2.c3d appears in the column labeled models/calibration files. | loadrtmodel.jpg| |3. switch to the **models** tab to verify bones in picture\ | rtverifybones.jpg| === step 2 - connect to rt stream/load emulation === **1.** open the //real-time// tab\ \ **2. a.** to connect to the qualysis real time stream:\ \ |* ensure qtm is running and set the rt output\ \ to test open a qtm file, capture and play the file in qtm via post processing keep it running | qtm_rt_settings.jpg| |* click **qualisys_rt** under **real-time hardware(plugins)** to connect to a real time stream (from mocap system)\ \ \ \ \ \ |* enter the correct ip address for the computer streaming real time. if they are on the same computer, enter 127.0.0.1 to indicate local host. | qualisys_rt.jpg| \ \ **2.** stop now. this tutorial is just a wiki and cannot connect to your qtm system. so, we will now simulate the rt stream by using a c3d file as input instead. so, disconnect from the qtm system, and use the c3d_streaming plugin instead. to connect to the c3d stream:\ **1.** |click **c3dstream_rt** (used to emulate a camera system)\ \ \ \ \ \ browse to the dynamic c3d file (walking_hybrid_2.c3d)\ \ \ \ \ \ **note:** before using the real time stream users should test using c3d files collected in their lab | rtemulatecamera.jpg\ | **3.** the data is automatically applied to the model\ **note:** streaming status in lower left === step 3 - compute model based item: rt pipeline === **the rt pipeline is available only in visual3d professional**

<html></html> <html></html>open up //model based data computation// under the **real-time pipeline**<html></html> <html></html>double click //compute_model_based_data//<html></html> <html></html>click **edit**\ rtpipeline_cmbd.jpg<html></html> <html></html>change the corresponding:\ **data name:** ankle **folder:** original **model based item properties:** joint_angle **segment:** right foot **reference segment:** right shank\ capture_model_based_data.jpg<html></html> <html></html>click **done**<html></html><html></html> === step 4 - create graph === <html></html> <html></html>click **add** in the **real-time graphs** section, and enter the following:\ **data to:** link_model_based::original::ankle\ graphdef.jpg<html></html> <html></html>click **ok**<html></html><html></html> === complete === your result should show a real-time stream that looks like the picture below final.jpg\ remember to save the graph and rt pipeline } } } } } }

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