

after the patient leaves]] tutorial and have found errors in the model which was applied. the three things may indicate there is an error with the model are: * the segment list on the left hand side of the screen. the calibration status for all of the segments should read yes as shown below. \\ correctsegmentlist.png\\ * the view after clicking on the bones button (circled below) and orientate the view screen on the right so that the subject is centered on the screen facing you. the bones should be in the correct position and orientation for a standard human being. \\ v3dtoolbarbonescircled.png\\ * a visual inspection of the coordinate systems. there should be one for each of the sections that were created, they have three axis, green (x-axis), red (y-axis), and blue(z-axis). when the subject's image is facing you the green axis should be pointing towards you, the red axis should be pointing from left to right, and the blue axis should be up and down. a correct model is shown below. \\ modelnobones.png\\ when you know there is a problem with your model go through the following steps for each of the segments that has a problem. 1. make sure the markers for the segment are present and properly labeled. a diagram and a complete list of markers are shown below. **marker placement** |marker name|anatomical acronym|description |reference page | |c7 |cv7 |spinous process of the seventh cervical vertebrae |^{[[#cite_note-serge-1|1]]:p. 28} | |ij |sjn |deepest point of incisura jugularis |^{[[#cite_note-serge-1|1]]:p. 34} | |l1 |lv1 |first lumbar vertebrae |^{[[#cite_note-serge-1|1]]:p. 29} | |l3 |lv3 |third lumbar vertebrae |^{[[#cite_note-serge-1|1]]:p. 29} | |l5 |lv5 |fifth lumbar vertebrae |^{[[#cite_note-serge-1|1]]:p. 29} | |la/ra |lcaj/rcaj |left/right acromion |^{[[#cite_note-serge-1|1]]:p. 45} | |lasis/rasis|liasis/riasis |left/right anterior superior iliac spine |^{[[#cite_note-serge-1|1]]:p. 106} | |lca/rca |lfcc/rfcc |aspect of the achilles tendon insertion on the calcaneus |^{[[#cite_note-serge-1|1]]:p. 162} | |lfm/rfm |lfm1/rfm1 |dorsal margin of the first metatarsal head |^{[[#cite_note-serge-1|1]]:p. 173} | |lgt/rgt |lftc/rftc |most lateral prominence of the greater trochanter |^{[[#cite_note-serge-1|1]]:p. 116} | |lhf/rhf |lfax/rfax |proximal tip of the head of the fibula |^{[[#cite_note-serge-1|1]]:p. 154} | |lle/rle |lfle/rfle |most lateral prominence of the lateral femoral epicondyle |^{[[#cite_note-serge-1|1]]:p. 122} | |llm/rlm |lfal/rfal |lateral prominence of the lateral malleolus |^{[[#cite_note-serge-1|1]]:p. 158} | |lme/rme |lfme/rfme |most medial prominence of the medial femoral epicondyle |^{[[#cite_note-serge-1|1]]:p. 120} | |lmm/rmm |ltam/rtam |most medial prominence of the medial malleolus |^{[[#cite_note-serge-1|1]]:p. 148} | |lpsis/rpsis|lips/rips |left/right posterior superior iliac spine |^{[[#cite_note-serge-1|1]]:p. 107} | |lsm/rsm |lfm2/rfm2 |dorsal aspect of the second metatarsal head |^{[[#cite_note-serge-1|1]]:p. 173} | |lft/rtt |lttc/rttc |most anterior border of the tibial tuberosity |^{[[#cite_note-serge-1|1]]:p. 144} | |lvm/rvm |lfm5/rfm5 |dorsal margin of the fifth metatarsal head |^{[[#cite_note-serge-1|1]]:p. 173} | |mai |approximately tv7 |midpoint between the inferior angles of the most caudal points of the two scapulae|^{[[#cite_note-serge-1|1]]:p. 61} | |px |sxs |xiphoid process, i.e. most caudal point of the sternum |^{[[#cite_note-serge-1|1]]:p. 37} | |t2 |tv2 |second thoracic vertebrae |^{[[#cite_note-serge-1|1]]:p. 29} | \\ \\ ior_full_marker_set.png\\ \\ 2. if your markers are mislabeled return to the software you used for the labeling and correct the error. if the markers are missing completely return to your raw data. check that these markers have not been accidentally deleted or left unlabeled. if the markers have not been recorded at all these trials are not useable and should be recollected. 3. if your markers are present return to the problematic sections and check that the segment definitions are correct by double clicking on the segment list to the left of the screen. a complete list of the correct segment definitions can be found [[https://www.c-motion.com/v3dwiki/index.php?title=tutorial:_ior_gait_full-body_model|here]].\\ segmentlistwitharrow.png\\ 4. if all of the segment definitions are correct and the model still appears to be incorrect then contact support@c-motion.com for further assistance. ===== if you need to modify force assignments ===== this set of troubleshooting instructions are for if you have reached steps 26 to 29 of the after the patient leaves tutorial and have found errors in the force

platform contacts. a force platform assignment is correct when it indicates that the correct foot (left or right) is making contact with the force platform. a subjects foot may come into contact with two force platforms at the same time however any force assignment that has two feet on the same platform at the same time is erroneous and should be removed. 1. make sure that the force assignment is erroneous by carefully inspecting the 3d view on the right of the screen.\\ rightfootcontact.png\\ 2. click on force at the top of the screen.\\ topbarforcecircled.png\\ 3. select view/edit segment to force assignments\\ forceexpanded.png\\ 4. select the force assignment that is incorrect so that it is highlighted in blue and click on the delete segment assignment button.\\ viewmodifyforceplatformsegmentassignments.png\\ 5. if you are certain that you wish to delete the segment assignment that you have selected click yes.\\ modifyassignmentconfirmation.png\\ 6. repeat steps 4 and 5 as many times as is necessary to remove all the erroneous force assignments and then click ok to exit the view/modify force platform segment assignments window.\\ viewmodifyforceplatformsegmentassignmentswithok.png\\ 7. resume the pipeline and return to the [\[\[index.php?title=iorgait_tutorials&action=edit&redlink=1|after the patient leaves\]\]](#) tutorial.

===== if your report has errors ===== ===== check your labeling ===== ===== check your model ===== ===== check your force assignments ===== ===== check your force data ===== ===== check your marker tracking ===== - ↑ ^{[[#cite_ref-serge_1-0|1.00]]}^{[[#cite_ref-serge_1-1|1.01]]} ^{[[#cite_ref-serge_1-2|1.02]]}^{[[#cite_ref-serge_1-3|1.03]]} ^{[[#cite_ref-serge_1-4|1.04]]}^{[[#cite_ref-serge_1-5|1.05]]} ^{[[#cite_ref-serge_1-6|1.06]]}^{[[#cite_ref-serge_1-7|1.07]]} ^{[[#cite_ref-serge_1-8|1.08]]}^{[[#cite_ref-serge_1-9|1.09]]} ^{[[#cite_ref-serge_1-10|1.10]]}^{[[#cite_ref-serge_1-11|1.11]]} ^{[[#cite_ref-serge_1-12|1.12]]}^{[[#cite_ref-serge_1-13|1.13]]} ^{[[#cite_ref-serge_1-14|1.14]]}^{[[#cite_ref-serge_1-15|1.15]]} ^{[[#cite_ref-serge_1-16|1.16]]}^{[[#cite_ref-serge_1-17|1.17]]} ^{[[#cite_ref-serge_1-18|1.18]]}^{[[#cite_ref-serge_1-19|1.19]]} ^{[[#cite_ref-serge_1-20|1.20]]}^{[[#cite_ref-serge_1-21|1.21]]} cite error: invalid "%%<ref>%%" tag; no text was provided for refs named "%%serge%%" }

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