

This tutorial covers the basic processing steps starting from C3D files through to report generation. None of these steps will be described in detail, but we will provide links to pages with more detailed descriptions.

As a starting point, we will assume that you have:

- a model template (MDH)
- a signal processing pipeline (V3S)
- a report template (RGT)
- a static trial (C3D)
- multiple movement trials (C3D)

If you don't have these templates or pipelines, you can download the sample files or follow the links to documentation on how to create them.

You can download sample C3D files to use with this tutorial [here](#).

Creating a model

To create the model, make sure that Visual3D is started by selecting ** Start → Programs → C-Motion → Visual3D**

1. Load the static C3D file by going to **Model → Create (Add Static Calibration File) → Hybrid Model from C3D file**. **Note:** Your screen may look slightly different. 
2. Select "LowerBodyStaticTrial01.c3d." Click **Open**. 

Applying a model template

In this section, you will apply a previously constructed model template. If you don't have a **model template** (.mdh file) for this standing trial, please complete the [Model Building Tutorial](#) which describes the process for building a model and creating a template.

If you have a model template, then:

Visual3D will switch to Model Building mode automatically. The 3D viewer will display the average value of the marker locations from the standing file. The dialog bar to the left of the screen will contain a list of segments, which by default will contain only a segment representing the Laboratory (e.g. Motion Capture Volume). 

1. **Apply the model template:**
 1. Go to Model → Apply Model Template
 2. In the dialog, select the model template
2. **Set the subject height/weight:**
 1. In the models tab, go to Subject Data/Metrics
 2. Double click on the value next to Mass listed under Expression
 3. Double click on the value next to Height listed under Expression

Using a Pipeline Command

Pipeline commands can be used to apply the model template and set the subject height/weight. These commands can be edited to look for specific files, or if parameters are left blank, they will prompt the user for relevant information.

1. Apply Model Template command
2. Set Subject Height command
3. Set Subject Weight command

A great example of applying a model template can be found on the following pages Pipeline Processing Example 1 and Pipeline Processing Example 2.

Opening movement files

This section will open/add the movement files to the model that was created in the previous sections on this page.

If you were able to successfully load the static trial and apply the model template by following the steps above, the static trial should appear in the Workspace tab.

This means you are ready to continue onto the next step.

1. **Load the dynamic trials**
 - a. File → Open/Add...
 - b. Select **Insert new files into your currently open workspace**
 - c. Select "WalkingTrial_01.c3d"

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