

Basic Pipeline for Processing a Session

This brief example demonstrates a [pipeline script](#) that steps through a standard set of basic processing steps. No assumptions are made about file or template names, so the user is prompted for each file in sequence.

Pipeline

This pipeline is similar to the examples from the Typical Processing Session's tutorials, but the user is also prompted for subject-specific information that can be used by the hybrid model to customize to the subject. The result is a very general pipeline that can be applied in many situations at the cost of added human input.

```
! Starting Fresh - Clear Workspace
File_New
;

! Create a Hybrid model.
! Prompt for the Standing Trial to use
Create_Hybrid_Model
! /CALIBRATION_FILE=
;

! Load the Model Template (Segment Definitions)
Apply_Model_Template
! /MODEL_TEMPLATE=
! /CALIBRATION_FILE=
;

! Prompt for a set of Pipeline parameters that get assigned to the model
metrics
! in following commands:
Prompt_For_Multiple_Pipeline_Parameter_Values
/GLOBAL_PARAMETER_NAME=MASS+HEIGHT+THIGH_RADIUS+KNEE_RADIUS+ANKLE_RADIUS+FOOT_RADIUS
/DATATYPE=float+float+float+float+float+float
/DEFAULT_VALUE=1.0+1.0+0.089+0.075+0.05+0.08
/MASS=1.0
/HEIGHT=1.0
/THIGH_RADIUS=0.089
/KNEE_RADIUS=0.075
/ANKLE_RADIUS=0.05
/MET_RADIUS=0.08
;

! Model Metric Values These values use the pipeline parameters entered by
the user
```

! and modify the subject data

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=Mass  
/METRIC_VALUE=: :MASS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=Height  
/METRIC_VALUE=: :HEIGHT  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=RTH_Distal_Radius  
/METRIC_VALUE=: :KNEE_RADIUS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=RTH_Proximal_Radius  
/METRIC_VALUE=: :THIGH_RADIUS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=LTH_Distal_Radius  
/METRIC_VALUE=: :KNEE_RADIUS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=LTH_Proximal_Radius  
/METRIC_VALUE=: :THIGH_RADIUS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=RSK_Distal_Radius  
/METRIC_VALUE=: :ANKLE_RADIUS  
;
```

```
Set_Model_Metric  
! /CALIBRATION_FILE=  
/METRIC_NAME=LSK_Distal_Radius  
/METRIC_VALUE=: :ANKLE_RADIUS  
;
```

```
Set_Model_Metric
! /CALIBRATION_FILE=
/METRIC_NAME=RFT_Distal_Radius
/METRIC_VALUE=:FOOT_RADIUS
;

Set_Model_Metric
! /CALIBRATION_FILE=
/METRIC_NAME=LFT_Distal_Radius
/METRIC_VALUE=:FOOT_RADIUS
;

! Update the model
Build_Model
! /CALIBRATION_FILE=
! /REBUILD_ALL_MODELS=FALSE
;

! Prompt for the Movement data files.
! Multiple files can be selected in the dialog file listing using CTRL-Click
File_Open
! /FILE_NAME=
;

! Assigning the Movement files to the model
! Pop up the dialog box...
Assign_Model_File
! /CALIBRATION_FILE=
! /MOTION_FILE_NAMES=
;

! Prompt the user for a TAG and assign the TAG to all files in the Workspace
Prompt_For_Pipeline_Parameter_Value
/GLOBAL_PARAMETER_NAME=TAG
/PROMPT=Enter The Name of the Tag for this Workspace
! /DATA_TYPE=
! /DEFAULT_VALUE=
;

Assign_Tags_To_File
/MOTION_FILE_NAMES=ALL_FILES
/TAGS=:TAG
;

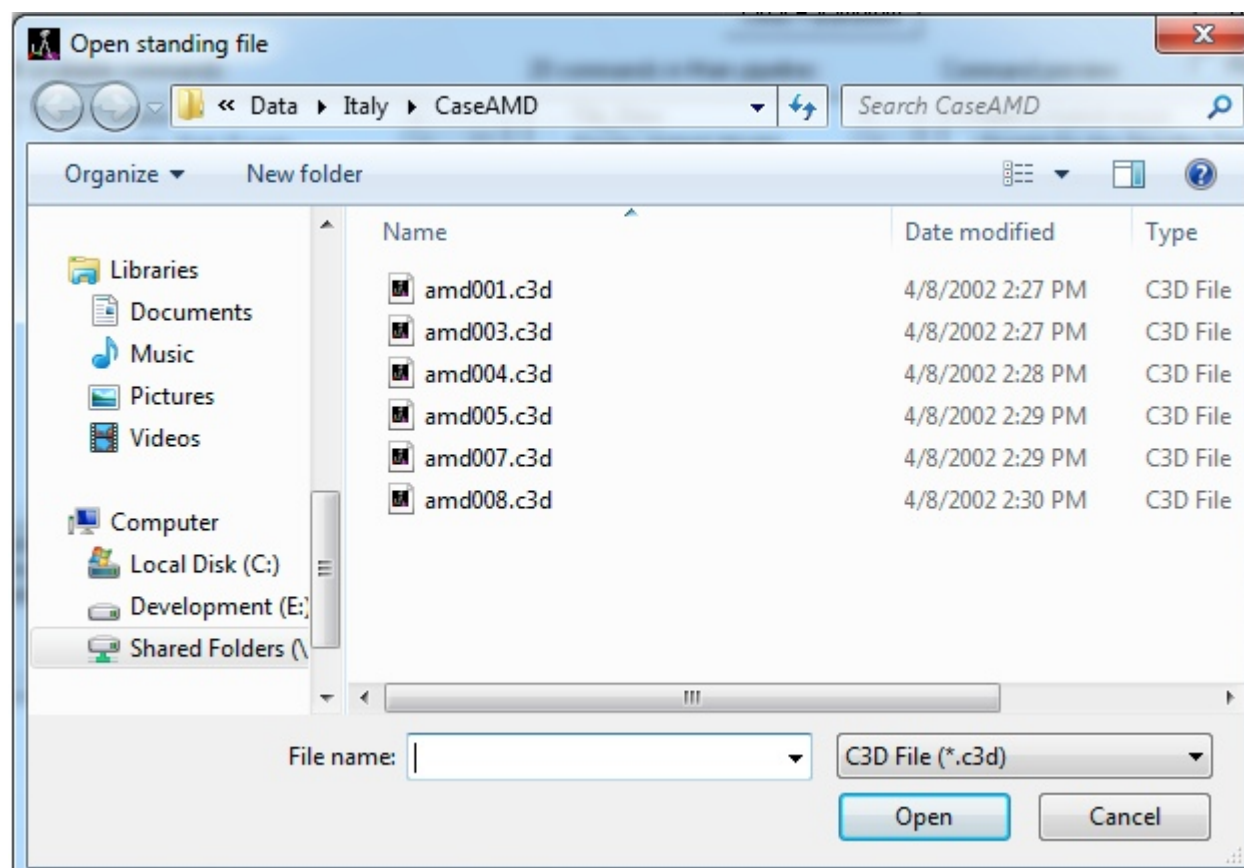
! Prompts the user for the report template
Open_Report_Template
! /REPORT_FILE_NAME=
;
```

Execution Results

When this pipeline is executed the user is prompted for all of the files and templates. The interaction will appear as follows:

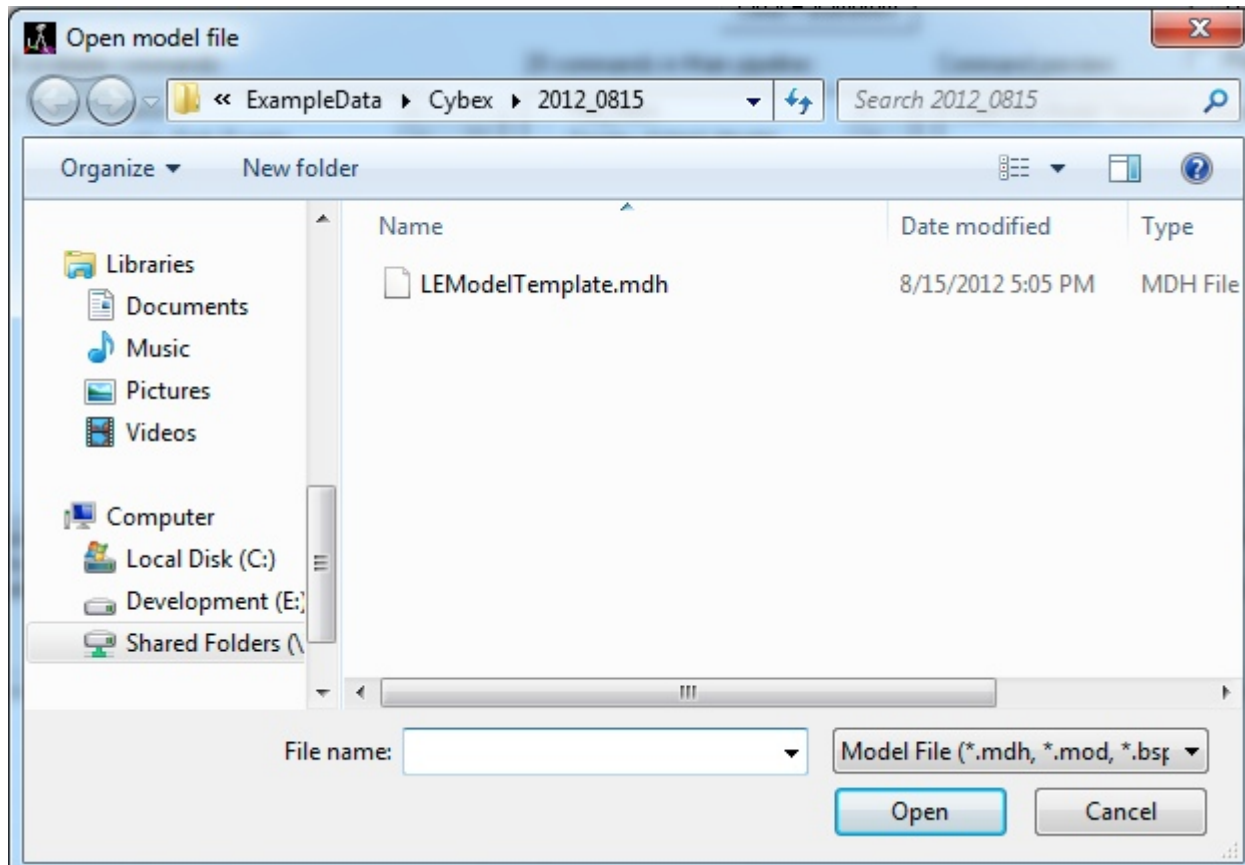
Static Trial Selection

A dialog will pop-up so the user can select the [standing trial](#) for the model.



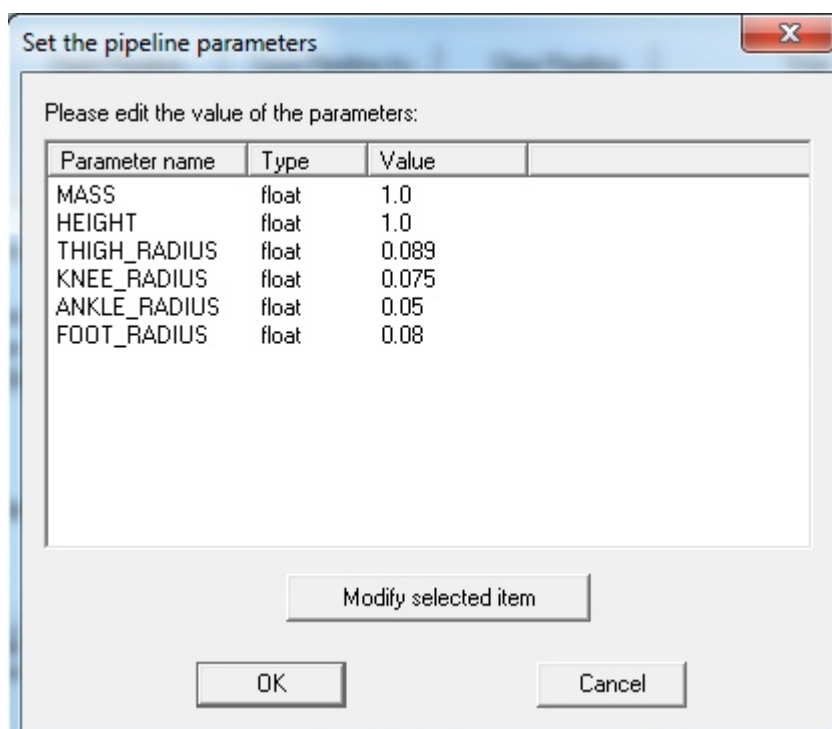
Model Template Selection

The user will select the [model template](#).



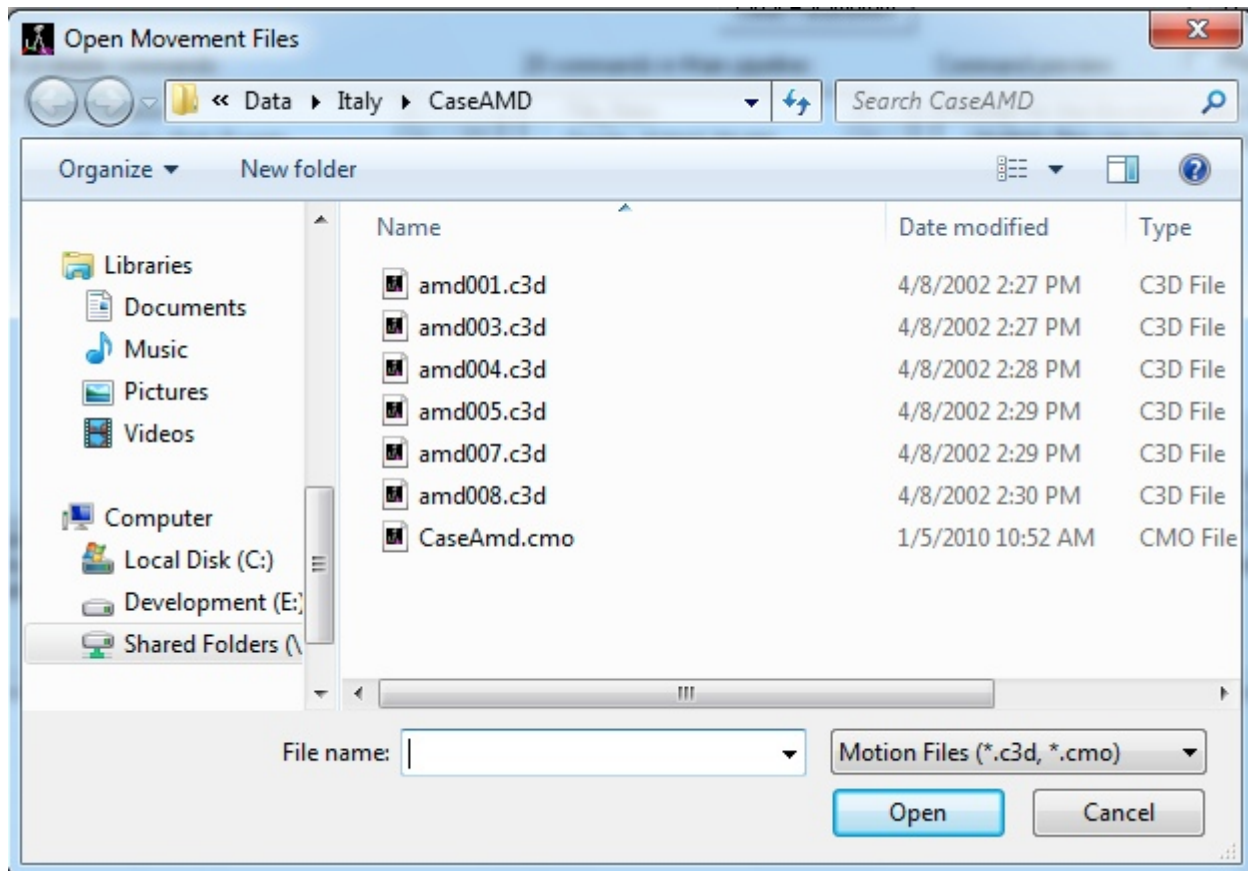
Subject-Specific Metrics

A dialog will pop-up so the user can enter [subject-specific model metrics](#).



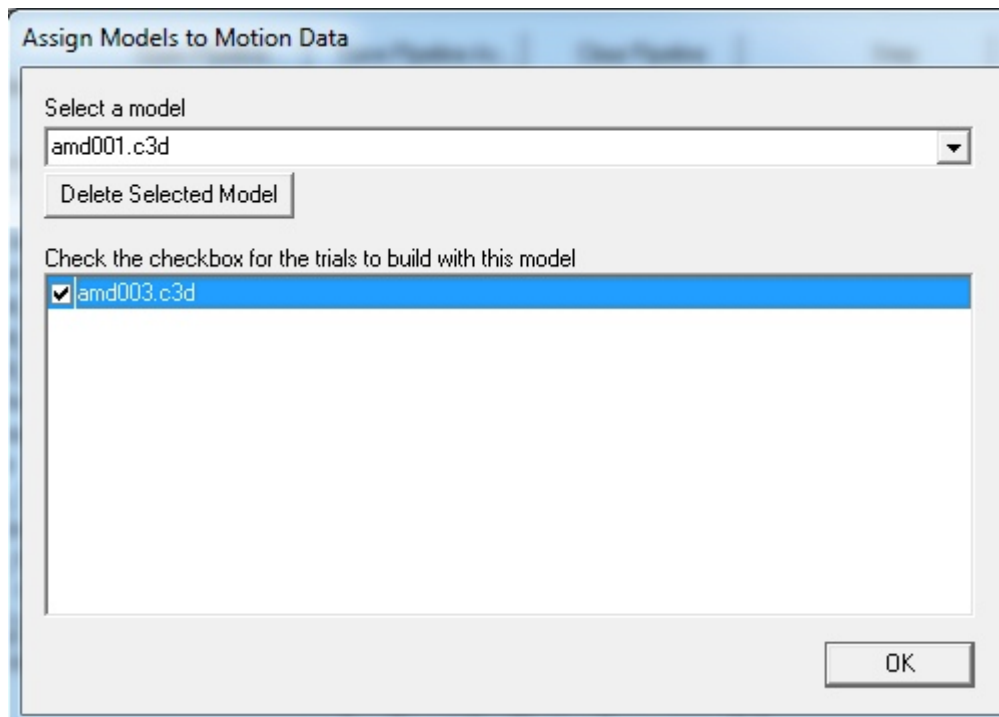
Dynamic Trial Selection

The user will then select the [movement trials](#). Multiple files can be selected in the dialog file listing using CTRL-Click



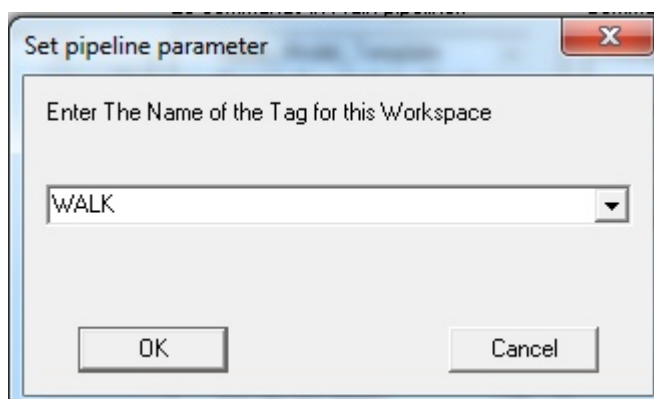
Model Assignment

The user will assign the model to the movement trials.



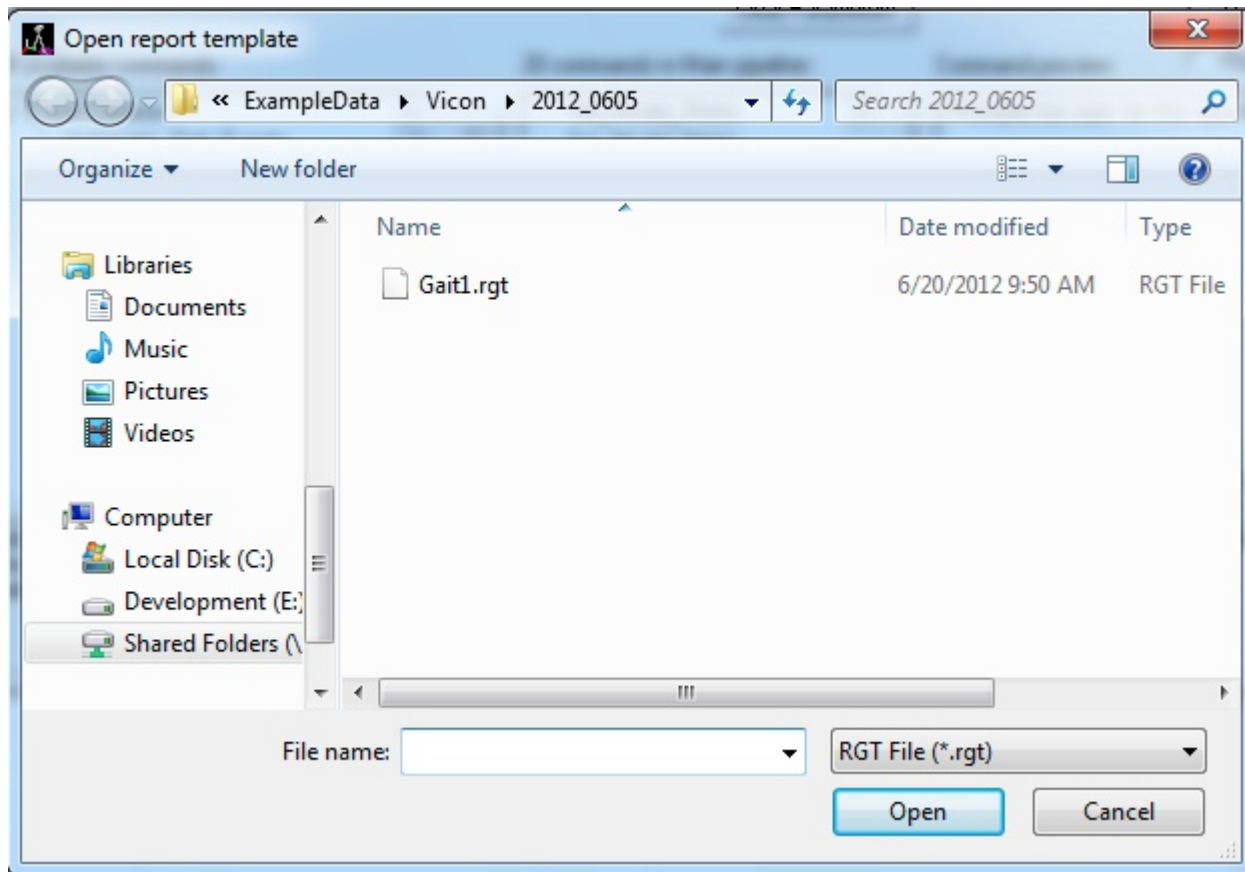
Tag Assignment

The user will be prompted for a [TAG](#) and assign the TAG to all files in the [workspace](#).



Report Template Selection

The user will select the [report template](#).



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