

Marker Markerless Comparison

(work in progress as [Manage_Theia3D_Merge](#) is a hidden command in Visual3D that is still being tested before release)

This tutorial demonstrates the merging of Theia3D output c3d files and synchronized c3d files with marker based data.

Demo Files

Download the [zip file](#) containing folder paths and files for this tutorial.

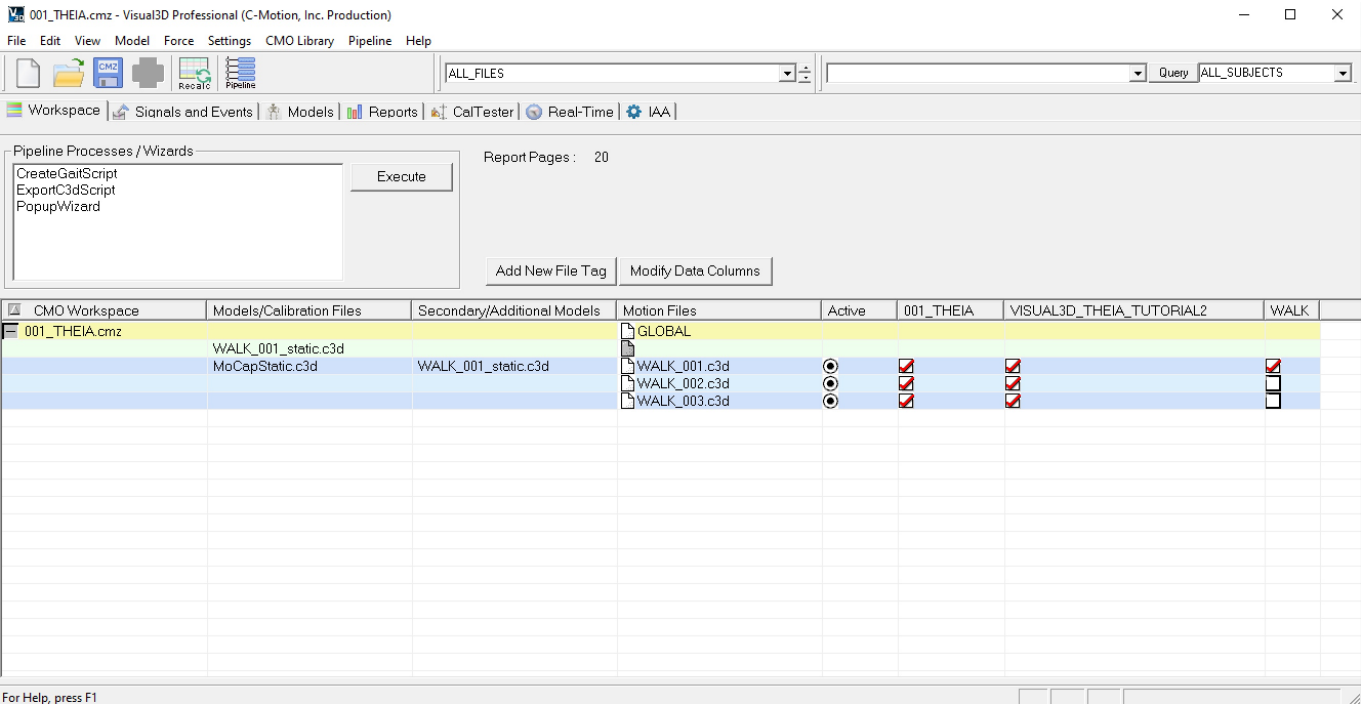
Merge Theia3D Files and Marker based files

The Theia3D signals will be assigned a prefix ML: and a subject tag ML The markers will be assigned a prefix M: and a subject tag M The pair of synchronized files will be merged into one file. The ground reaction force will be assigned to both models (there is a little inside trick here) Difference signals and metrics will be generated and reported.

Project	THEIA3D_MB_ML		
Root path to search	\\vmware-host\Shared Folders\Desktop\Visual3D Stuff\Test Files_Markerless\Visual3D_Theia_Tutorial2\ Browse		
Theia3D Session Folder Mask	*_THEIA	Browse	
Theia3D File Mask	*pose_filt_0.c3d		
Other3D Session Folder Mask	*_QTM	Browse	
Other3D File Mask (Optional)	*walk*.c3d		
Other3D Static File Mask (Optional)	*static*.c3d		
Other3D Model Template Mask (Optional)	*.mdh	Browse	
File Tags	GROUP+SESSION+TASK		
Theia3D Subject Tags	ML	Theia3D Prefixes	ML:
Other3D Subject Tags	M	Other3D Prefixes	M:
GCVSPL Variance	0.00001		
☒ Merge Theia3D Files	☐ Import Analog Files	☐ Open CMZ Library After Processing	
☒ Recreate the Event Labels	☒ QA Force Assignments		
Restrict Number of Session Files	3		
Input Folder Structure	DEFAULT		
OK Cancel			

Manage_Theia3D_Processing /ROOT_FOLDER=...\Visual3D_Theia_Tutorial2\ ! /ACTION=

```
/TAGS=GROUP+SESSION+TASK /PROJECT=THEIA3D_MB_ML ! /IMPORT_ANALOG_FILES=FALSE
/MERGE_THEIA3D_FILES=TRUE /THEIA3D_SESSION_FOLDER=*_THEIA
/THEIA3D_FILE_MASK=*pose_filt_0.c3d /THEIA3D_PREFIX=ML: /THEIA3D_SUBJECT_TAG=ML
/OTHER3D_SESSION_FOLDER=*_QTM /OTHER3D_FILE_MASK=*walk*.c3d
/OTHER3D_MODEL_MASK=*static*.c3d /OTHER3D_MODEL_TEMPLATE_MASK=*.mdh
/OTHER3D_PREFIX=M: /OTHER3D_SUBJECT_TAG=M /NUMBER_OF_SESSION_FILES_ALLOWED=3
/GCVSPL_VARIANCE=0.00001 ! /RECREATE_EVENTS=TRUE ! /QA_FORCE_ASSIGNMENTS=TRUE !
/OPEN_CMZ_LIBRARY=FALSE ! /REPORT_COMMAND=FALSE ! /REPORT_INFO=FALSE !
/REPORT_ERROR=FALSE ! /REPORT_WARNING=FALSE ! /INPUT_FOLDER_STRUCTURE=DEFAULT ;
```



The resulting file contains 3 merged c3d files and 2 models

Workspace | Signals and Events | Models | Reports | CalTester | Real-Time | IAA

1:

2:

3: STRIDE : Joint Angles

4: STRIDE : Segment Angles

5: STRIDE : Segment Proximal End

6: STRIDE : Joint Angle Differences_M_ML

7: STRIDE : Segment Angle Differences_M_ML

8: STRIDE : Segment Proximal End Differences_M_ML

9: STRIDE - RMS Segment Angle Differences - Foot, Shank, Thigh, Arm, Forearm, Hand

10: STRIDE - RMS Joint Position Differences - Ankle, Knee, Hip, Shoulder, Elbow, Wrist

11: STRIDE - RMS Joint Angle Differences - Ankle, Knee, Hip, Shoulder, Elbow, Wrist

12: STANCE : Joint Angles

13: STANCE : Segment Angles

14: STANCE : Segment Proximal End

15: STANCE : Joint Angle Differences_M_ML

16: STANCE : Segment Angle Differences_M_ML

17: STANCE : Segment Proximal End Differences_M_ML

18: STANCE - RMS Segment Angle Differences - Foot, Shank, Thigh, Arm, Forearm, Hand

19: STANCE - RMS Joint Position Differences - Ankle, Knee, Hip, Shoulder, Elbow, Wrist

20: STANCE - RMS Joint Angle Differences - Ankle, Knee, Hip, Shoulder, Elbow, Wrist

Edit Selected

Delete Selected

Insert Page Before

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Duplicate Page

Search/Replace

Overlay Report

Delete Report

Update Report

Add a new report item to the report

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Column 1

Span 1

Item to add:

2D Graph

Add

A collection of report graphs

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