

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 ;

001_THEIA.cmz - Visual3D Professional (C-Motion, Inc. Production)

File Edit View Model Force Settings CMO Library Pipeline Help

Workspace Signals and Events Models Reports CalTester Real-Time IAA

Pipeline Processes / Wizards

CreateGaitScript
ExportC3dScript
PopupWizard

Execute

Report Pages : 20

Add New File Tag Modify Data Columns

CMO Workspace	Models/Calibration Files	Secondary/Additional Models	Motion Files	Active	001_THEIA	VISUAL3D_THEIA_TUTORIAL2	WALK
001_THEIA.cmz	WALK_001_static.c3d MoCapStatic.c3d	WALK_001_static.c3d	GLOBAL WALK_001.c3d WALK_002.c3d WALK_003.c3d	☒ ☒ ☒	☒ ☒ ☒	☒ ☒ ☒	☒ ☐ ☐

For Help, press F1

The resulting file contains 3 merged c3d files and 2 models

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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

Insert Page After

Duplicate Page

Search/Replace

Overlay Report

Delete Report

Update Report

Add a new report item to the report

Page 4 Column 1 Span 1 Item to add: 2D Graph Add

Row 1 Span 1

A collection of report graphs

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