

How To Restart Unfinished Job in Marc/Mentat

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Job Properties



When creating a new job, make sure to select the desired loadcase(s) and boundary condition(s)

Click to open the option for Job Results

And click to open the option for Job Parameters

Command > *colormap 1
Command > *colormap 2
Command > *next_job
Command > *previous_job
Command > *next_job
Command > *update_job
Command > *

Job Properties > Job Results



Under the menu for Job Results:

Choose the frequency of the output

Select the desired output variables

Model EisenSine opened.
Command : *dynamic_model_on
Command : *menu_view 4
Enter view to show : *view_perspective
Enter view to show : *colormap 2
Command : *next_job
Command : █

Ready

Job Properties > Job Parameters



Under the menu for Job Parameters:

Click to open the option for restart

STRUCTURAL JOB PROPERTIES

JOB PARAMETERS

MARC INPUT FILE

VERSION: STYLE:

EXTENDED PRECISION

STATE STORAGE: ALL POINTS CENTROID

USER SUBROUTINE USDATA

USER DATA MEMORY ALLOCATION:

USER SUBROUTINE USORD

SHELL/BEAM LAYERS:

MATRIX SOLVER: RESTART

UNITS AND CONSTANTS

NUMERICAL PREFERENCES

DYNAMIC MODES: MODAL DAMPING

BUCKLE MODES:

POS. BUCKLE MODES:

CAVITY PARAMETERS

ADVANCED CONNECTOR CONTROL

ANALYSIS OPTIONS

JOB RESULTS

JOB PARAMETERS

ANALYSIS DIMENSION

OK

Ready

```
Command > *colormap 1
Command > *colormap 2
Command > *input_job
Command > *previous_job
Command > *next_job
Command > *update_job
Command >
```

Job Properties > Job Parameters > Restart



Under the menu for Job Parameters/Restart:

Select the option "Write"

Choose the "Single increment file(s)"

And choose the "Last converged only"

RESTART DATA MODE
-OFF WRITE READ READ & WRITE

WRITE RESTART DATA
SINGLE INCREMENT FILE(S) LAST CONVERGED ONLY

RESTART FILE CLEAR

COMPLETION OF UNFINISHED LOADS
UNMODIFIED MODIFIED CHANGED

CHANGE	RESHADING CRITERIA	
TIME STEP (DYNAMIC ANALYSIS)		
END TIME		
# STEPS		
REASSEMBLY INTERVAL		
# RECYCLES		
MAX STEP SIZE		
% OF TOTAL LOAD		

IMMEDIATE RESTART -OFF -AUTOMATIC -SCHEDULED (LIST) -OPTIONS
-MANUAL (JOB) -MANUAL (JOB) -FS

PREVIOUS POST FILE -COPY TO CURRENT -NO LOG -PLOTS
-CHANGED CONTACT BODIES -LOADED CONTACT BODIES -DIMENSION

Ok Ok

Ready

```
Command > *colormap 1
Command > *colormap 2
Command > *input_job
Command > *previous_job
Command > *next_job
Command > *update_job
Command >
```

Job Properties



Choose a different job name from the original/parent job

When creating a restart job no loadcase(s) or boundary condition(s) needs to be selected

Click to open the option for Job Results

And click to open the option for Job Parameters

AVAILABLE		
UniTension2	STRUCTURAL	static
UniCompress2	STRUCTURAL	static

```
Enter add job loadcase : *next_job
Enter add job loadcase : *previous_job
Enter add job loadcase : *previous_job
Enter add job loadcase : *remove_job_loadcases UniCompress2
Enter remove job loadcase : *new_job *job_class structural
Command * *job_name RC--Restart
Command *
```

Fun facts:

- + If the selected loadcase in the restart job is different from the original one, Marc/Mentat will restart the job until the original loadcase is completed.
- + If identical loadcase and boundary condition are selected, Marc/Mentat will add (append) the loadcase and boundary condition into the original ones

Job Properties > Job Results



Under the menu for Job Results:

Choose the frequency of the output

Select the desired output variables

Important note!
Make sure that the chosen output frequency and the selected desired output variables (including the user defined output variables) of the restart job are IDENTICAL to those of the original/parent job

Job Properties > Job Parameters



Under the menu for Job Parameters:

Click to open the option for restart

Command > *job_option reauto:on
Command > *job_option reauto:off
Command > *job_option reauto:on
Command > *job_option reauto:immediate
Command > *job_option reauto:on
Command > *job_option reauto:off
Command > *

Job Properties > Job Parameters > Restart



Under the menu for Job Parameters/Restart:

Select the option "Read & Write"

Use the same configuration as in the parent job

Choose the "Single increment file(s)" consistent with the setting used for the parent job

Select the unfinished parent job

Select the "Unmodified" to keep the simulation configuration of the restart job identical with the parent job

Select "Copy to current" to merge the result file of the parent job into the restart job (single result file)

```
Command > *job_option reauto:on
Command > *job_option reauto:off
Command > *job_option reauto:on
Command > *job_option reauto:immediate
Command > *job_option reauto:on
Command > *job_option reauto:off
Command >
```

Job Properties > Job Parameters > Restart



Under the menu for Job Parameters/Restart:

Select the "Modified" to change the simulation configuration of the restart job (different from the parent job)

Enter the new simulation parameters

TYPE STEP (DYNAMIC ANALYSIS)	0
END TIME	230
# STEPS	400
REASSEMBLY INTERVAL	0
# RECYCLES	22
MAX STEP SIZE	0
% OF TOTAL LOAD	0

Select "No copy" to keep the result file of the restart job separated from the parent job (single result file)

```
Enter job parameter value : *job_param reauto_end
Enter job parameter value : 230
Command > *job_param reauto_steps
Enter job parameter value : 400
Command > *job_param reauto_recycles
Enter job parameter value : 22
Command >
```