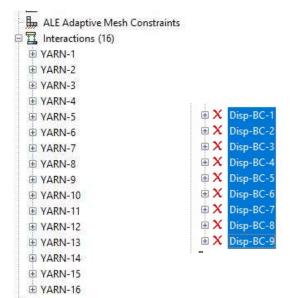
Dynamic explicit + regenerate option off + displacement boundary condition off

■ ☐ Interaction Properties (1)

```
111626
         *** CONTACT DEFINITIONS ***
111628
         **********
         *Contact Pair, Interaction=Yarn
         YarnOUpper, Yarn5Lower
111631
         *Contact Pair, Interaction=Yarn
         YarnOUpper, Yarn6Lower
         *Contact Pair, Interaction=Yarn
111634
         YarnlUpper, Yarn4Lower
111635
         *Contact Pair, Interaction=Yarn
111636 YarnlUpper, Yarn5Lower
         *Contact Pair, Interaction=Yarn
111638
         Yarn2Upper, Yarn4Lower
111639
         *Contact Pair, Interaction=Yarn
         Yarn2Upper, Yarn7Lower
111641
         *Contact Pair, Interaction=Yarn
111642
         Yarn3Upper, Yarn6Lower
         *Contact Pair, Interaction=Yarn
111644
        Yarn3Upper, Yarn7Lower
111645
         *Contact Pair, Interaction=Yarn
111646
         Yarn4Upper, Yarn0Lower
         *Contact Pair, Interaction=Yarn
         Yarn4Upper, Yarn3Lower
111649
         *Contact Pair, Interaction=Yarn
         Yarn5Upper, Yarn2Lower
111651
        *Contact Pair, Interaction=Yarn
         Yarn5Upper, Yarn3Lower
         *Contact Pair, Interaction=Yarn
         Yarn6Upper, Yarn1Lower
         *Contact Pair, Interaction=Yarn
111656
         Yarn6Upper, Yarn2Lower
         *Contact Pair, Interaction=Yarn
         Yarn7Upper, Yarn0Lower
111659
         *Contact Pair, Interaction=Yarn
         Yarn7Upper, Yarn1Lower
111661
         *Output, History, Variable=PRESELECT
111662
         *Output, Field, Variable=PRESELECT
         *Element Output
111664
         *Boundary
111666
         *Amplitude, name=Amp-1
         0., 0., 2.5e-05, 1.
111668 *Boundary, amplitude=Amp-1
```



To generate these interactions, the regenerate option in TexGen should be set to off and the .inp file shall contain the Dynamic, Explicit command active. If not Abaqus will not generate the yarn interactions.

```
**********

*** STEP ***

********

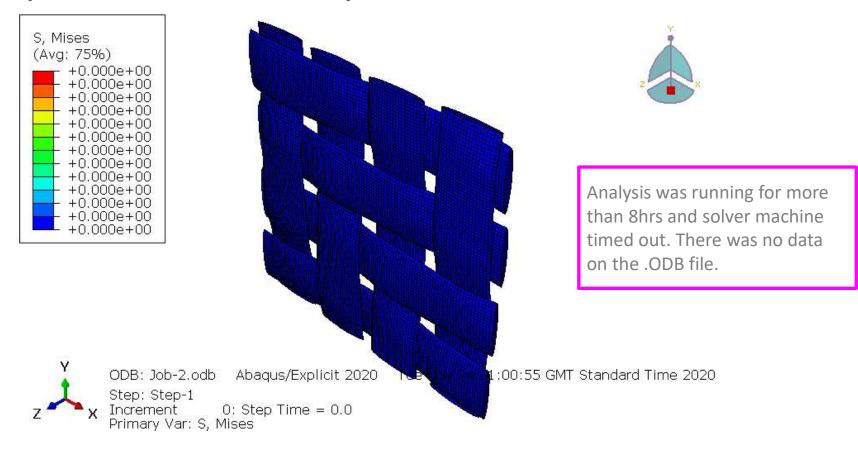
*Step, NLGeom=Yes

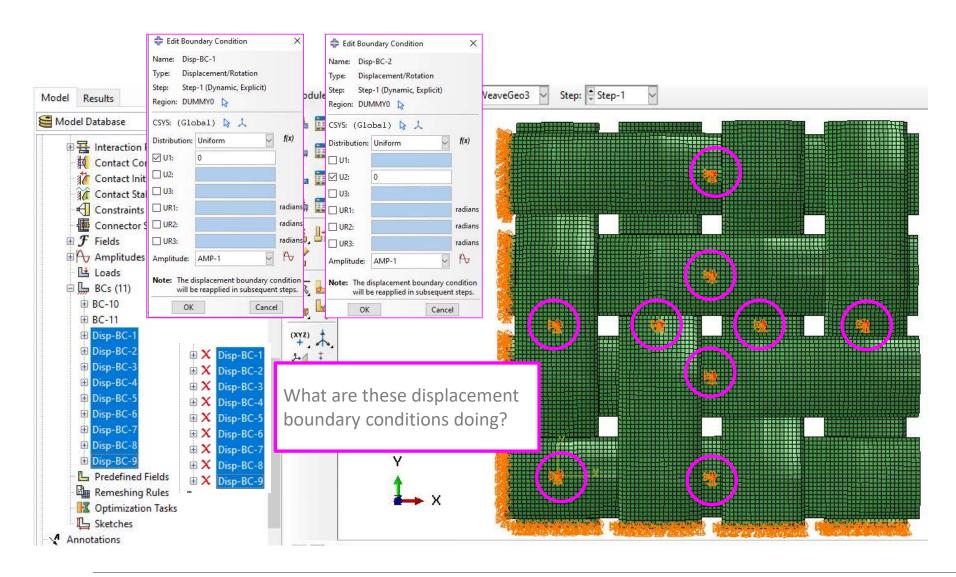
*Dynamic, Explicit
,2.5e-5

*Bulk Viscosity

0.06, 1.2
```

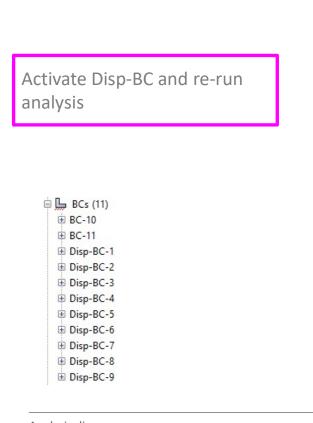
Dynamic explicit + regenerate option off + displacement boundary condition off

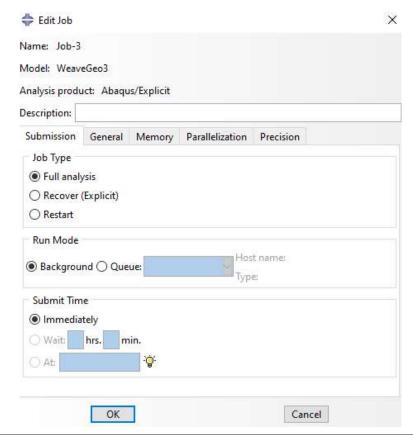




```
111669
         *** Constrain the nodes closest to the geometrical center of each yarns
111670
          2941, 1, 1, 0
111671
          2941, 2, 2, 0
111672
          2941, 3, 3, 0
111673
          8762, 1, 1, 0
                                  Why are these nodes being
111674
          8762, 2, 2, 0
                                   constrained?
111675
          8762, 3, 3, 0
111676
          14583, 1, 1, 0
111677
          14583, 2, 2, 0
111678
          14583, 3, 3, 0
111679
          20444, 1, 1, 0
111680
          20444, 2, 2, 0
111681
          20444, 3, 3, 0
111682
          26265, 1, 1, 0
111683
          26265, 2, 2, 0
111684
          26265, 3, 3, 0
111685
          32126, 1, 1, 0
111686
          32126, 2, 2, 0
111687
          32126, 3, 3, 0
111688
          37987, 1, 1, 0
111689
          37987, 2, 2, 0
111690
          37987, 3, 3, 0
111691
          43808, 1, 1, 0
111692
          43808, 2, 2, 0
111693
          43808, 3, 3, 0
111694
          *** Apply the repeat vector constraints
111695
          Dummy0, 1, 1, 0
111696
          Dummy0, 2, 2, 0
111697
          Dummy0, 3, 3, 0
111698
          Dummyl, 1, 1, 0
111699
          Dummy1, 2, 2, 0
111700
          Dummyl, 3, 3, 0
111701
          *End Step
```

Dynamic explicit + regenerate option off + displacement boundary condition on





Dynamic explicit + regenerate option off + displacement boundary condition on

The model "WeaveGeo3" has been created

```
The part "PART-1" has been imported from the input file.
Discrete field "PART-1_TEXGENORIENTATIONVECTORS" is created for distribution "TEXGENORIENTATIONVECTORS"
WARNING: Abaqus/CAE allows only the first node set in a *EQUATION definition to contain more than one node. Node set BOUNDOB violates this rule. The
equation using this node set will not be imported. This message is only printed once, so please check all other *EQUATION definitions.
The interaction property "YARN" has been created.
KeyError: 'bulkviscosity' This occurred while processing keyword *BULKVISCOSITY.
WARNING: The following keywords/parameters are not yet supported by the input file reader:
*INITIALCONDITIONS, TYPE=SOLUTION
*NSET, UNSORTED
The model "WeaveGeo3" has been imported from an input file.
Please scroll up to check for error and warning messages.
A new model database has been created.
The model "Model-1" has been created.
The model "WeaveGeo3" has been created
The part "PART-1" has been imported from the input file.
Discrete field "PART-1_TEXGENORIENTATIONVECTORS" is created for distribution "TEXGENORIENTATIONVECTORS".
WARNING: Abaqus/CAE allows only the first node set in a *EQUATION definition to contain more than one node. Node set BOUNDOB violates this rule. The
equation using this node set will not be imported. This message is only printed once, so please check all other *EQUATION definitions
The interaction property "YARN" has been created. The interaction "YARN-1" has been created.
The interaction "YARN-2" has been created
The interaction "YARN-3" has been created
The interaction "YARN-4" has been created The interaction "YARN-5" has been created
The interaction "YARN-6" has been created. The interaction "YARN-6" has been created. The interaction "YARN-7" has been created. The interaction "YARN-8" has been created. The interaction "YARN-9" has been created. The interaction "YARN-10" has been created. The interaction "YARN-11" has been created. The interaction "YARN-12" has been created. The interaction "YARN-13" has been created.
```

Dynamic explicit + regenerate option off + displacement boundary condition on

```
The interaction "YARN-14" has been created
The interaction "YARN-15" has been created
The interaction "YARN-16" has been created
WARNING: The following keywords/parameters are not yet supported by the input file reader:
*INITIALCONDITIONS. TYPE=SOLUTION
*NSET. UNSORTED
The model "WeaveGeo3" has been imported from an input file
Please scroll up to check for error and warning messages
A new model database has been created.
The model "Model-1" has been created.
The model database "H: N07_Dissertation N07_AqSETUP WeaveGeo3.cae" has been opened
The job "Job-3" has been created.
The job input file "Job-3.inp" has been submitted for analysis.

Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY_DUMMYO BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY DUMMYO BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY DUMMYO BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY DUMMY1 BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY DUMMY1 BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: A BOUNDARY CONDITION HAS BEEN SPECIFIED ON NODE SET ASSEMBLY DUMMY1 BUT THIS NODE SET IS NOT ACTIVE IN THE MODEL
Error in job Job-3: NODE SET ASSEMBLY_DUMMYO HAS NOT BEEN DEFINED
Error in job Job-3: NODE SET ASSEMBLY_DUMMYO HAS NOT BEEN DEFINED
Error in job Job-3: NODE SET ASSEMBLY_DUMMYO HAS NOT BEEN DEFINED
Error in job Job-3: NODE SET ASSEMBLY_DUMMY1 HAS NOT BEEN DEFINED
Error in job Job-3: NODE SET ASSEMBLY_DUMMY1 HAS NOT BEEN DEFINED
Error in job Job-3: NODE SET ASSEMBLY DUMMY1 HAS NOT BEEN DEFINED
```

Job Job-3: Analysis Input File Processor aborted due to errors.

Job Job-3 aborted due to errors.

Error in job Job-3: Analysis Input File Processor exited with an error.

The issue may be related with these dummy nodes. They may be related with displacement BC 1 to 9.