

Contact

Name	Description	Status

Create...

Copy...

Rename...

Delete...

Lock

Unlock

Update Validity

Ignore Invalidity

Dismiss

- Contact Controls
- Contact Initializations
- Constraints
- Connector Sections
- Fields
 - Amplitudes
 - Loads
 - BCs
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis
 - Jobs
 - Adaptivity Processes
 - Co-executions

Create Part

Name: Teren

Modeling Space

- 3D
- 2D Planar
- Axisymmetric

Type

- Deformable
- Discrete rigid
- Analytical rigid
- Eulerian

Options

None available

Base Feature

Shape

- Solid
- Shell
- Wire
- Point

Type

- Extrusion
- Revolution
- Sweep

Approximate size: 10000

Continue... Cancel

Fill out the Create Part dialog

A new model database has been created.
The model "Model-1" has been created.

Model Database

- Models (1)
 - Model-1
 - Parts
 - Materials
 - Sections
 - Profiles
 - Assembly
 - Steps (1)

Status

Create...

Copy...

Rename...

Delete...

Lock

Unlock

Update Validity

Ignore Invalidity

Dismiss

Remeshing Rules

Sketches

Annotations

Analysis

Jobs

Adaptivity Processes

Co-executions

Module: Part Model: Model-1 Part: All

x5000, y5000

H

Y

X

Z

Pick a starting corner for the rectangle--or enter X,Y:

A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.

Model Database

Models (1)

Model-1

- Parts
- Materials
- Sections
- Profiles
- Assembly
- Steps (1)

Status

Create...

Copy...

Rename...

Module: Part Model: Model-1 Part:

End Condition

Type: Blind

Depth: 10000

Options

Note: Twist and draft cannot be specified together.

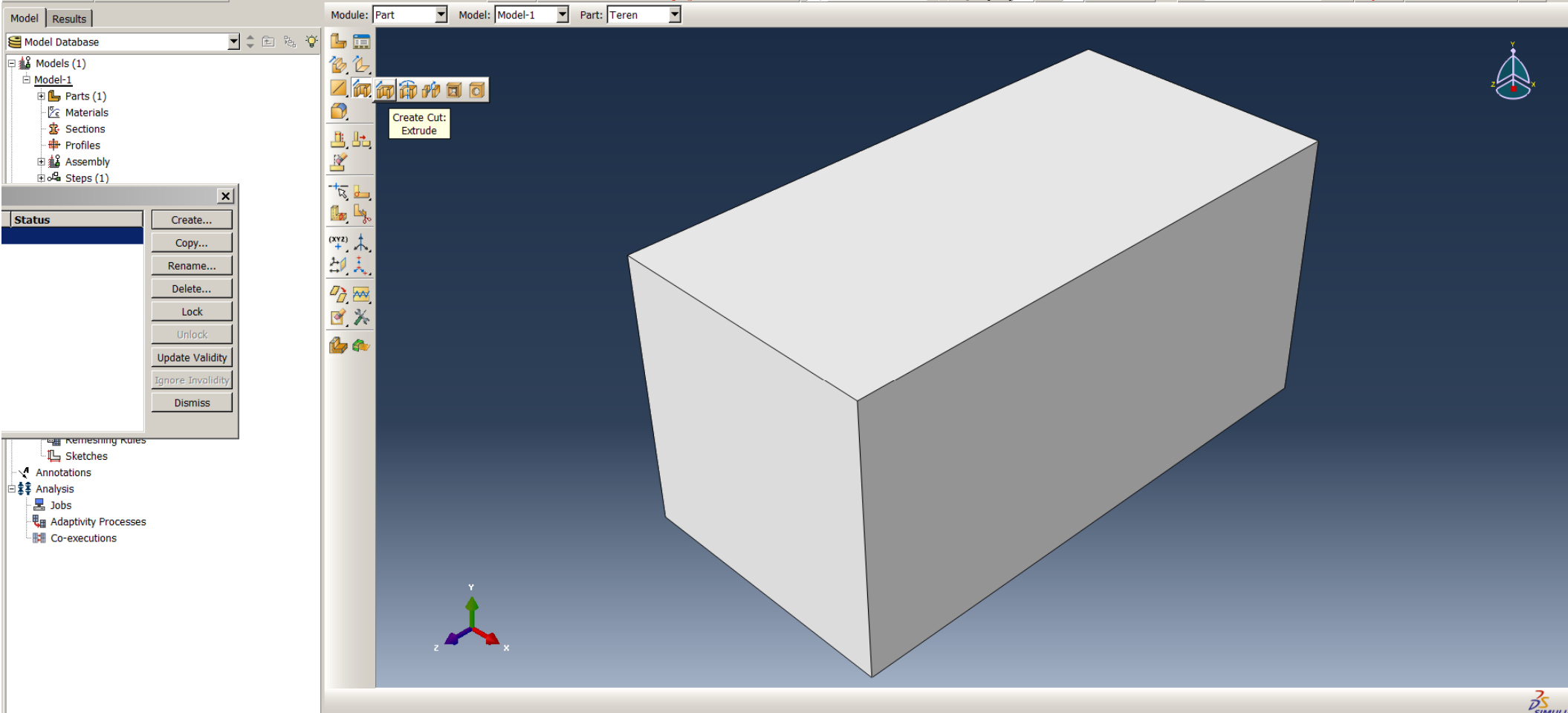
☐ Include twist, pitch: 0 (Dist/Rev)

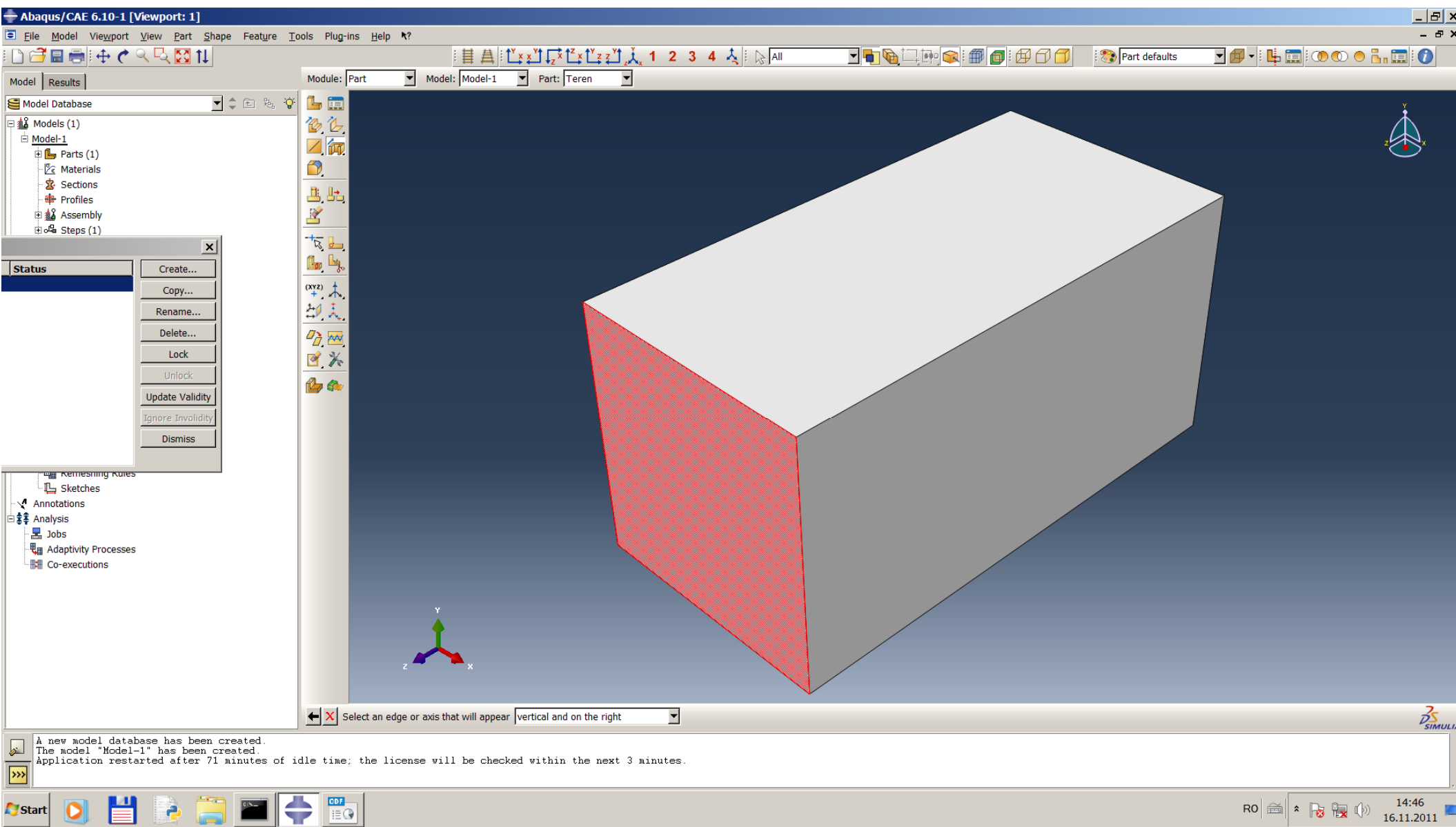
☐ Include draft, angle: 0 (Degrees)

OK Cancel

Fill out the Edit Base Extrusion dialog

A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.





Model Database

Models (1)

Model-1

- Parts (1)
- Materials
- Sections
- Profiles
- Assembly
- Steps (1)

Status

Create...

Copy...

Rename...

Delete...

Lock

Unlock

Update Validity

Ignore Invalidity

Dismiss

Remeshing Rules

Sketches

Annotations

Analysis

Jobs

Adaptivity Processes

Co-executions

Module: Part Model: Model-1 Part: Teren

x0, y0

Y

Z

X

Pick the opposite corner for the rectangle--or enter X,Y:

A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.

Model Database

Models (1)

Model-1

- Parts (1)
- Materials
- Sections
- Profiles
- Assembly
- Steps (1)

Status

Create...

Copy...

Rename...

Delete...

Lock

Unlock

Update Validity

Ignore Invalidity

Dismiss

Remeshing Rules

Sketches

Annotations

Analysis

Jobs

Adaptivity Processes

Co-executions

Module: Part Model: Model-1 Part: Teren

x:2500, y:2500

Pick the opposite corner for the rectangle--or enter X,Y:

A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.

Model Database

Models (1)

Model-1

- Parts (1)
- Materials
- Sections
- Profiles
- Assembly
- Steps (1)

Status

Create...

Copy...

Rename...

Delete...

Lock

Unlock

Update Validity

Ignore Invalidity

Dismiss

Sketches

Annotations

Analysis

Jobs

Adaptivity Processes

Co-executions

Sketch the section for the extruded cut Done

A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.

Create Part

Name: Fundatia

Modeling Space

☒ 3D ☐ 2D Planar ☐ Axisymmetric

Type

☒ Deformable

☐ Discrete rigid

☐ Analytical rigid

☐ Eulerian

Options

None available

Base Feature

Shape

☒ Solid

☐ Shell

☐ Wire

☐ Point

Type

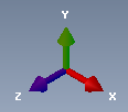
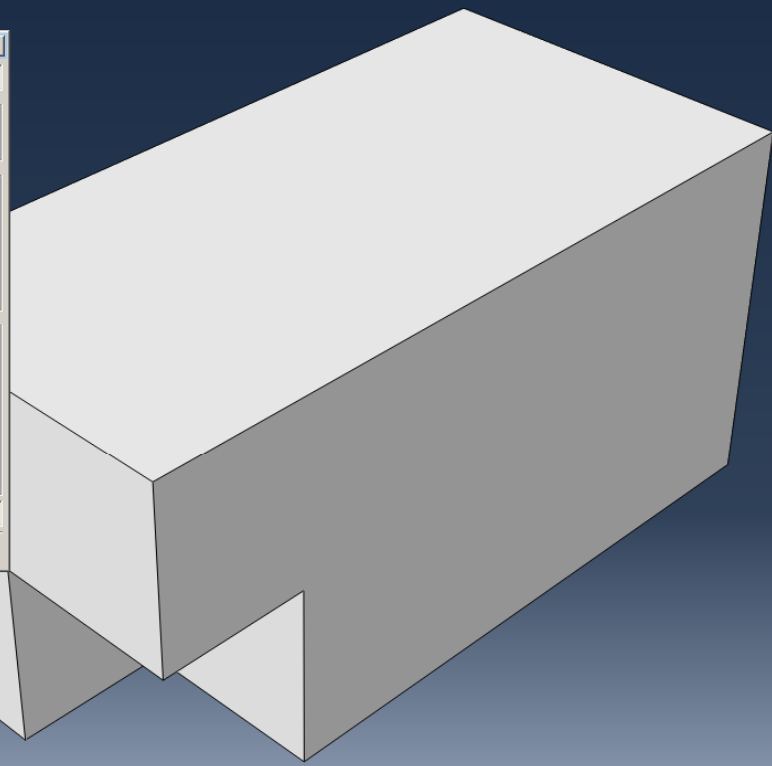
Extrusion

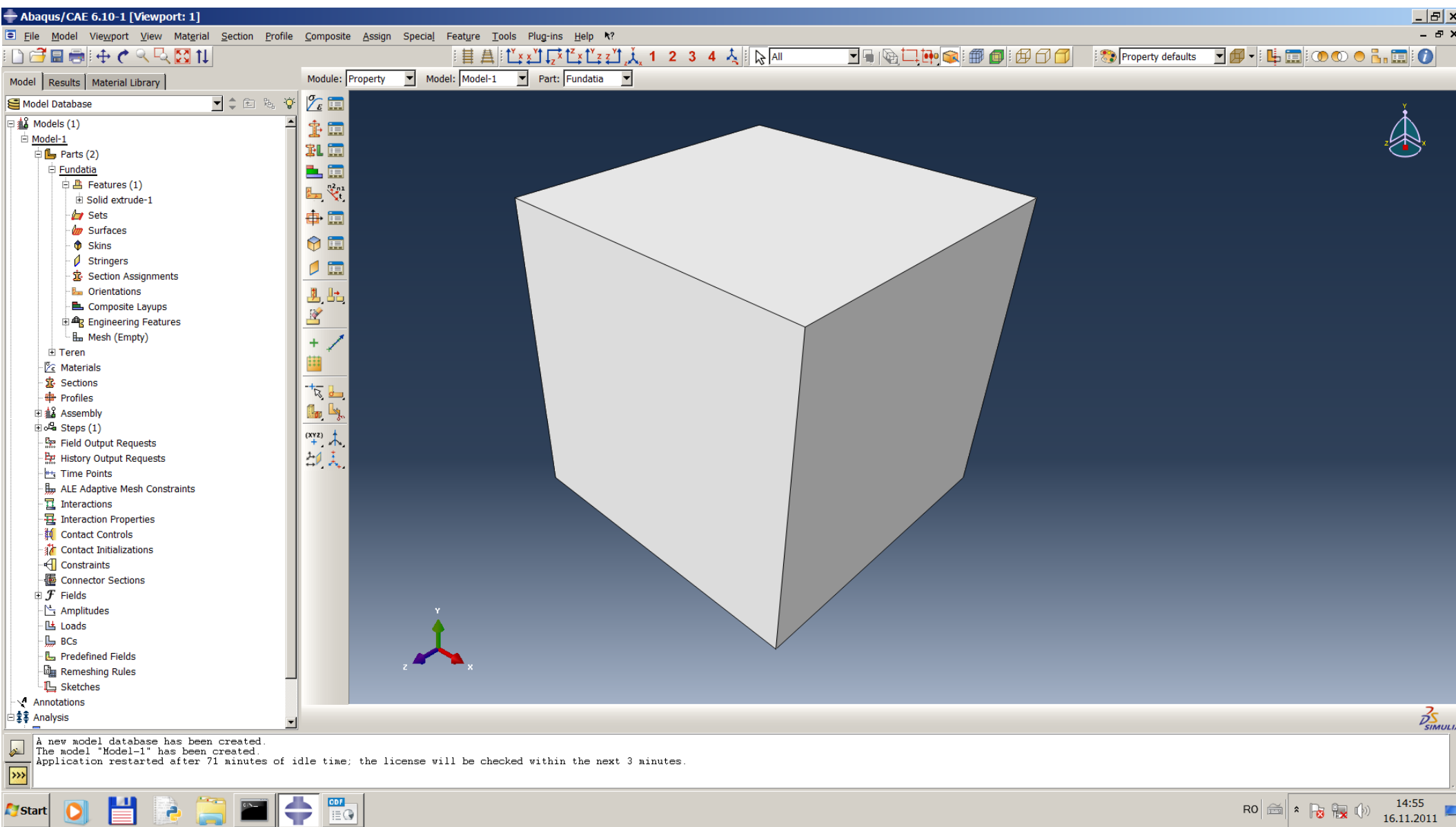
Revolution

Sweep

Approximate size: 10000

Continue... Cancel





Edit Material

Name: Elastic

Description: Edit...

Material Behaviors

Elastic

General Mechanical Thermal Other Delete

Elastic

Type: Isotropic Suboptions

☐ Use temperature-dependent data

Number of field variables: 0

Moduli time scale (for viscoelasticity): Long-term

☐ No compression

☐ No tension

Data

	Young's Modulus	Poisson's Ratio
1	16000	0.2

OK Cancel

Model Database

Models (1)

Model 1

Material Manager

Name
Elastic

Create... Edit... Copy... Rename... Delete... Evaluate... Dismiss

History Output Requests (1)

Time Points

ALE Adaptive Mesh Constraints

Interactions (1)

Interaction Properties (1)

Contact Controls

Contact Initializations

Constraints

Connector Sections

Fields

Amplitudes

Loads (1)

BCs (5)

Predefined Fields

Remeshing Rules

Sketches

Annotations

Analysis

Module: Property Model: Model-1 Part: Fundatia

Edit Material

Name: Teren

Description:

Material Behaviors

Elastic

General Mechanical Thermal Other

Elastic

Type: Isotropic

Use temperature-dependent data

Number of field variables: 0

Moduli time scale (for viscoelasticity): Long-term

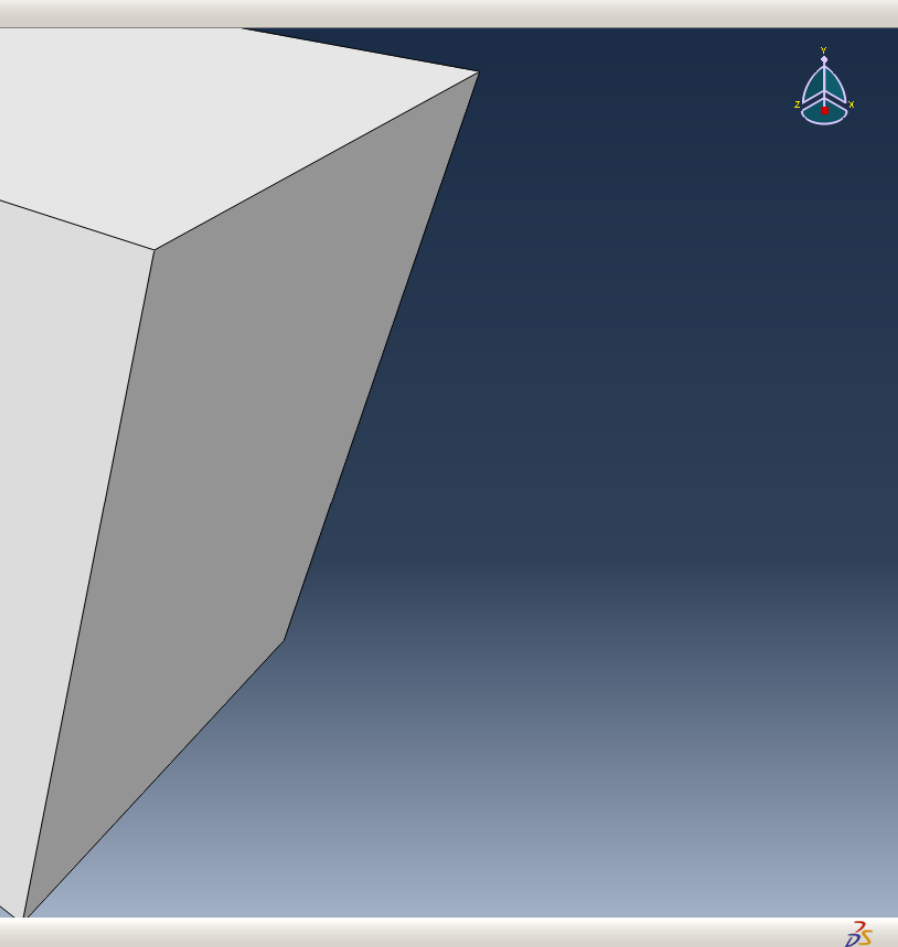
No compression

No tension

Data

	Young's Modulus	Poisson's Ratio
1	1500	0.25

OK Cancel



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system.

Section Manager

Name	Type
Fundatia	Solid, Homogeneous

Create... Edit... Copy... Rename... Delete... Dismiss

Edit Section

Name: Teren

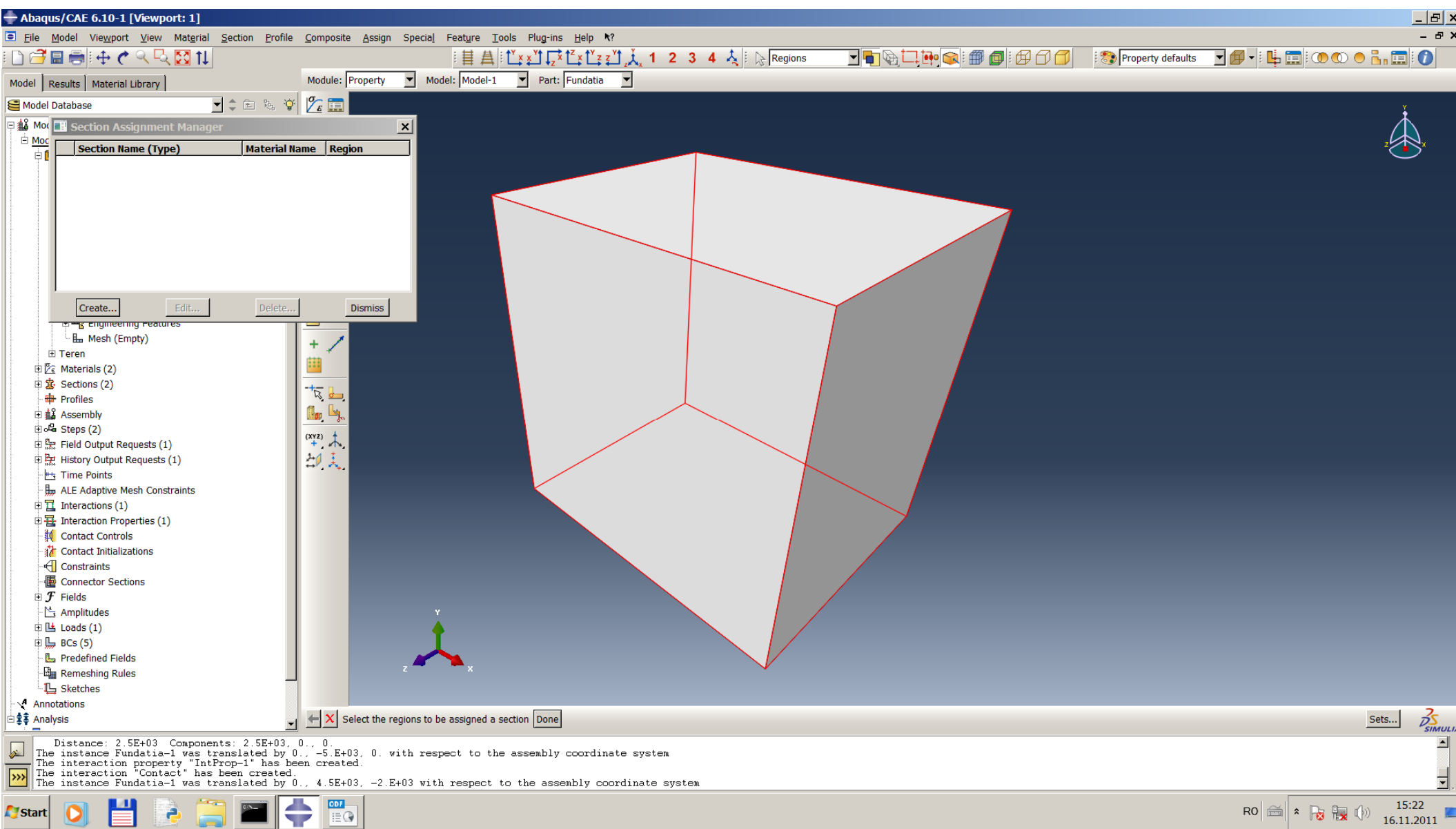
Type: Solid, Homogeneous

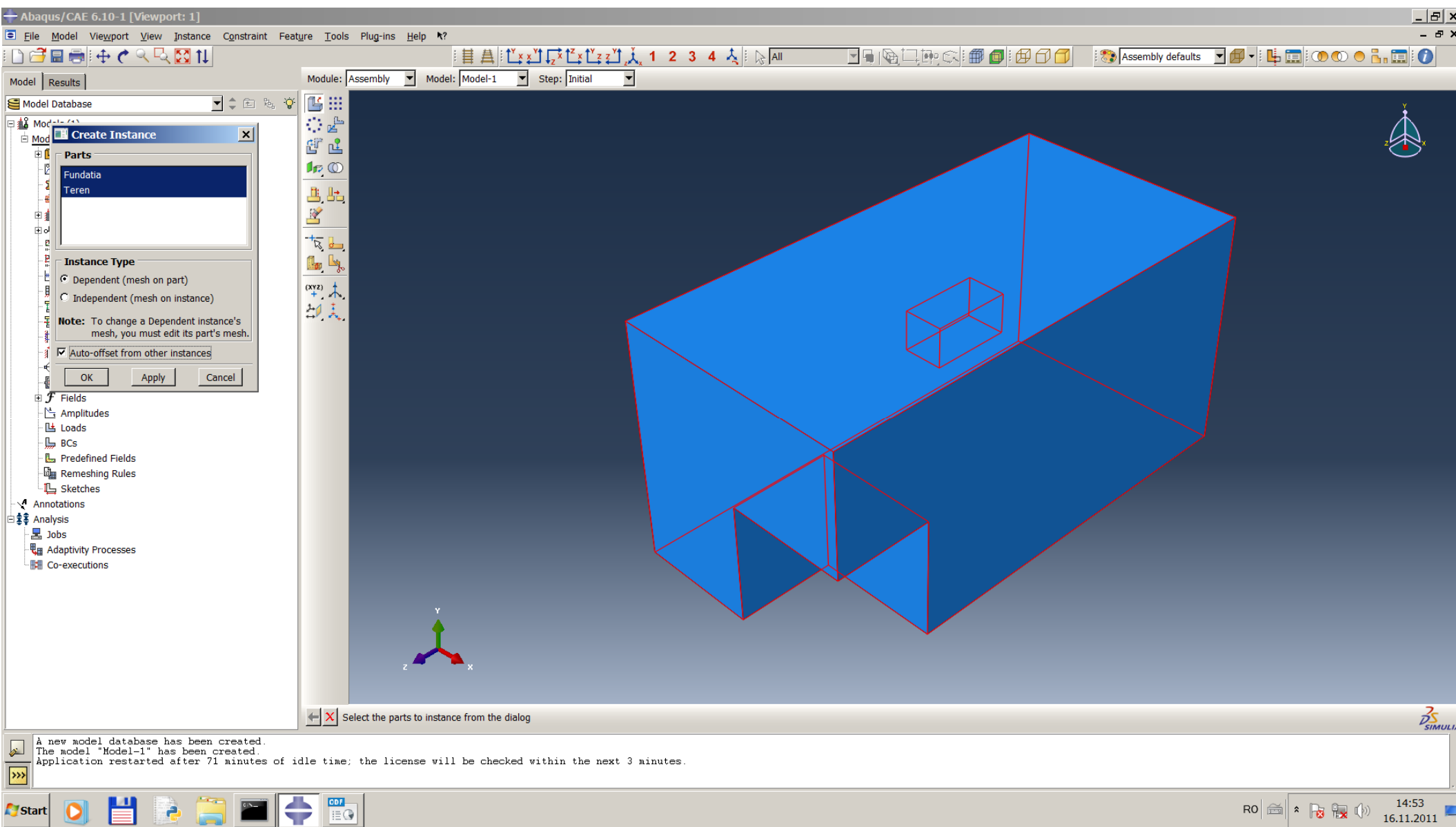
Material: Teren Create...

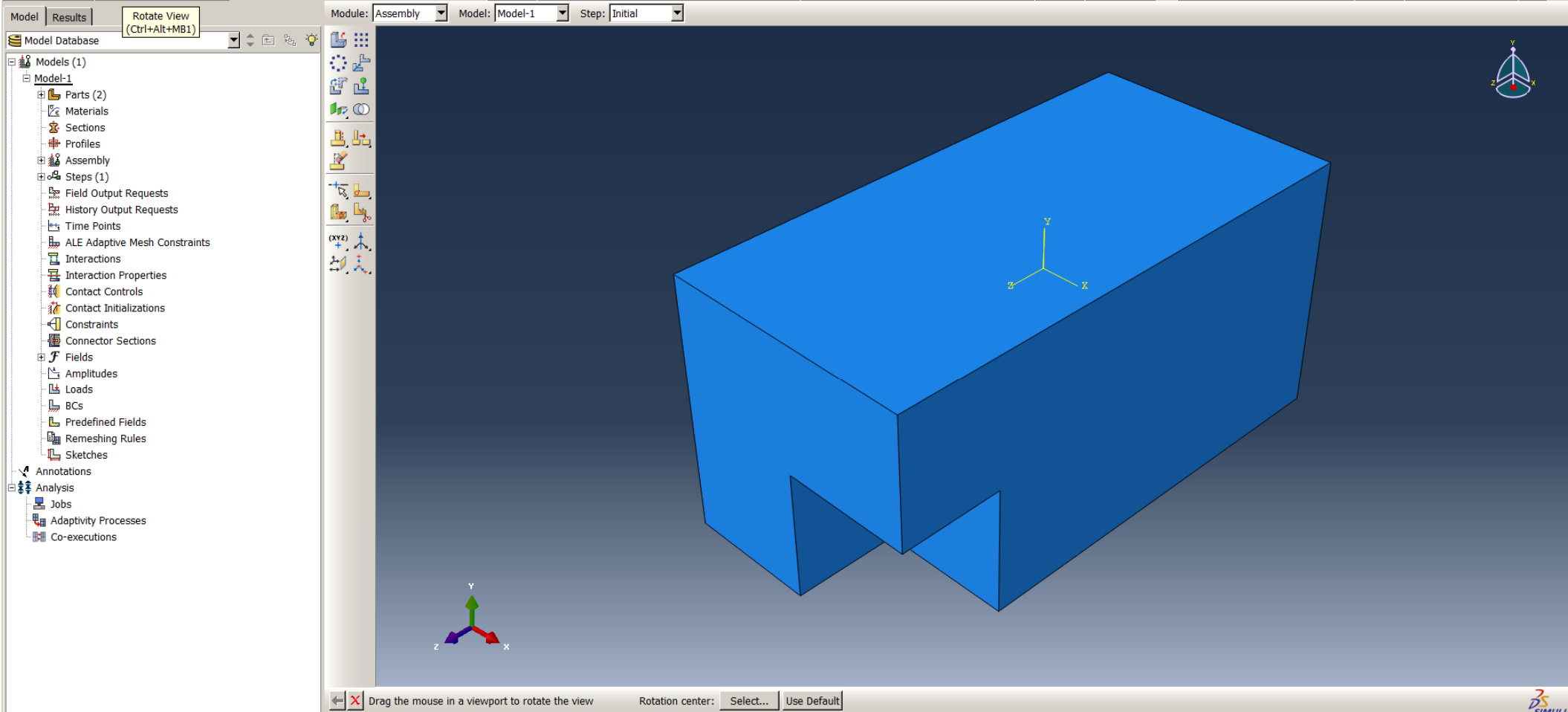
☐ Plane stress/strain thickness: 1

OK Cancel

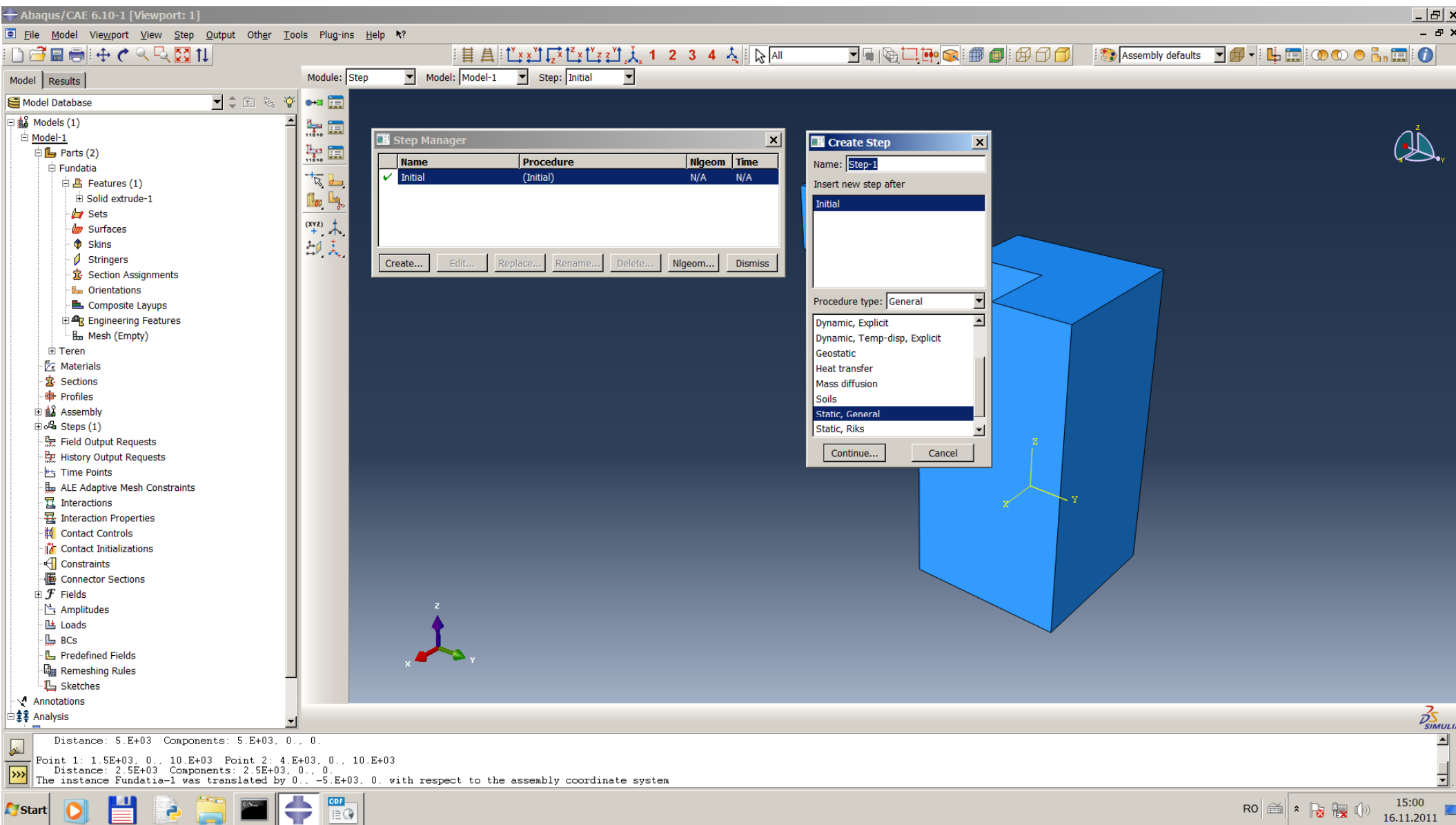
Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
 The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
 The interaction property "IntProp-1" has been created.
 The interaction "Contact" has been created.
 The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

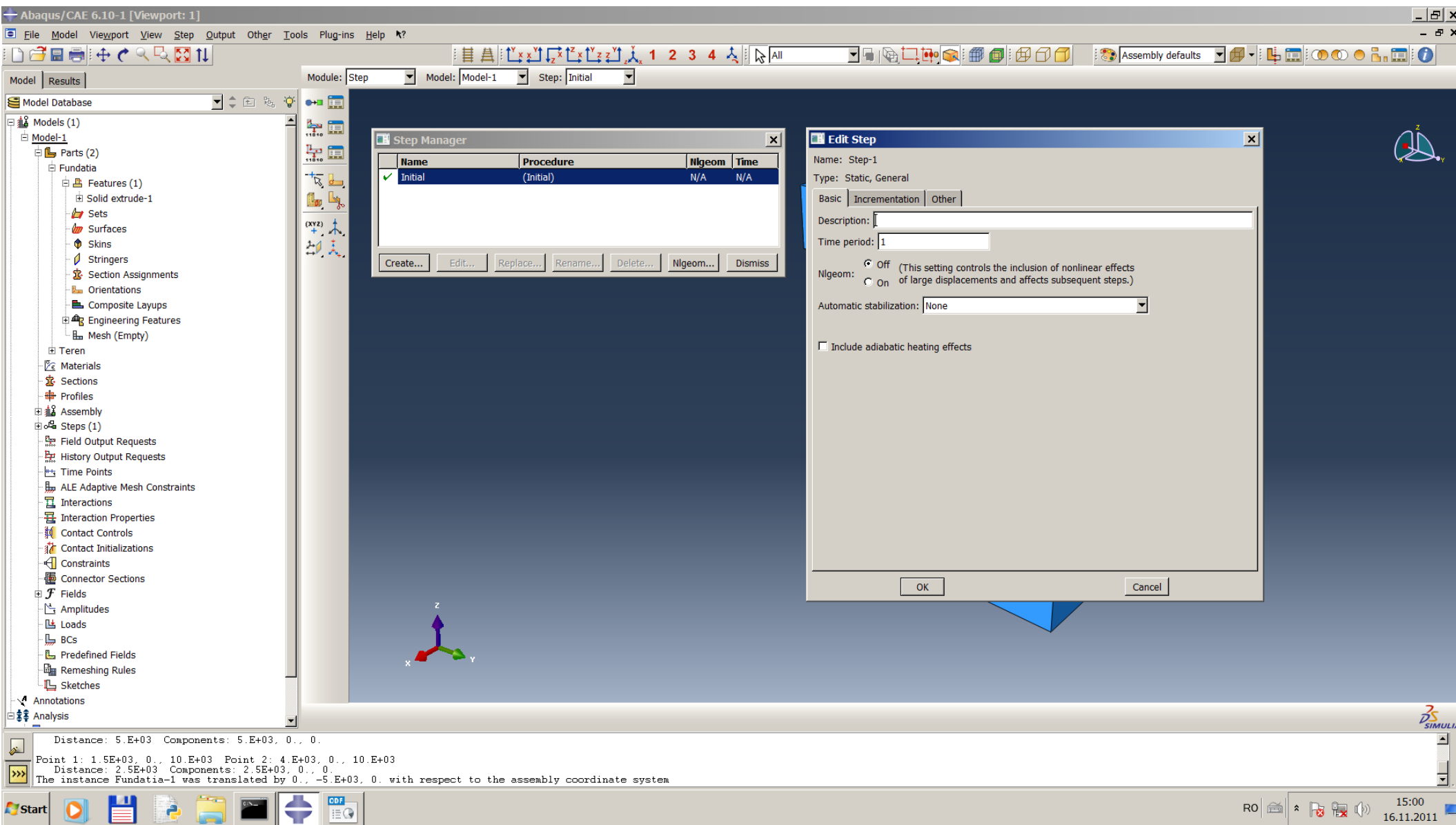






A new model database has been created.
The model "Model-1" has been created.
Application restarted after 71 minutes of idle time; the license will be checked within the next 3 minutes.





Model Database

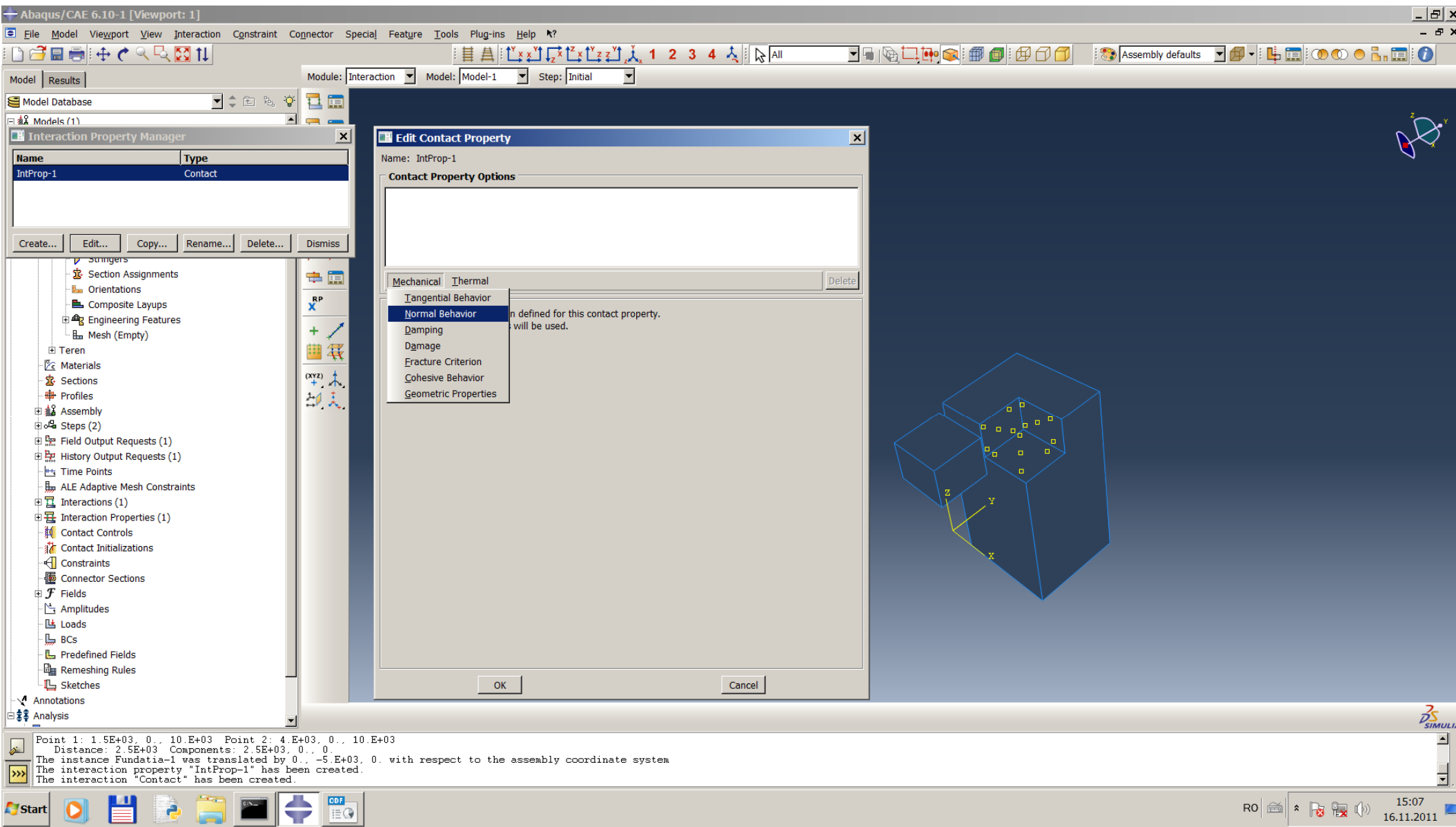
- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials
 - Sections
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions
 - Interaction Properties
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads
 - BCs
 - Predefined Fields
 - Remeshing Rules
 - Sketches

Step Manager

Name	Procedure	Nlgeom	Time
Initial	(Initial)	N/A	N/A
Step-1	Static, General	OFF	1

Create... Edit... Replace... Rename... Delete... Nlgeom... Dismiss

Distance: 5.E+03 Components: 5.E+03, 0., 0.
 Point 1: 1.5E+03, 0., 10.E+03 Point 2: 4.E+03, 0., 10.E+03
 Distance: 2.5E+03 Components: 2.5E+03, 0., 0
 The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system





Interaction Manager

Name	Initial	Step-1

Step procedure:
Interaction type:
Interaction status:

Create... Copy... Rename... Delete... Dismiss

Create Interaction

Name: Contact

Step: Initial

Procedure:

Types for Selected Step

- General contact (Standard)
- Surface-to-surface contact (Standard)
- Self-contact (Standard)
- XFEM crack growth
- Cyclic symmetry (Standard)
- Elastic foundation
- Actuator/sensor
- Acoustic impedance

Continue... Cancel

Distance: 5.E+03 Components: 5.E+03, 0., 0.

Point 1: 1.5E+03, 0., 10.E+03 Point 2: 4.E+03, 0., 10.E+03

Distance: 2.5E+03 Components: 2.5E+03, 0., 0

The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system

Interaction Manager

Name	Initial	Step-1
------	---------	--------

Edit...
Move Left
Move Right
Activate
Deactivate

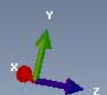
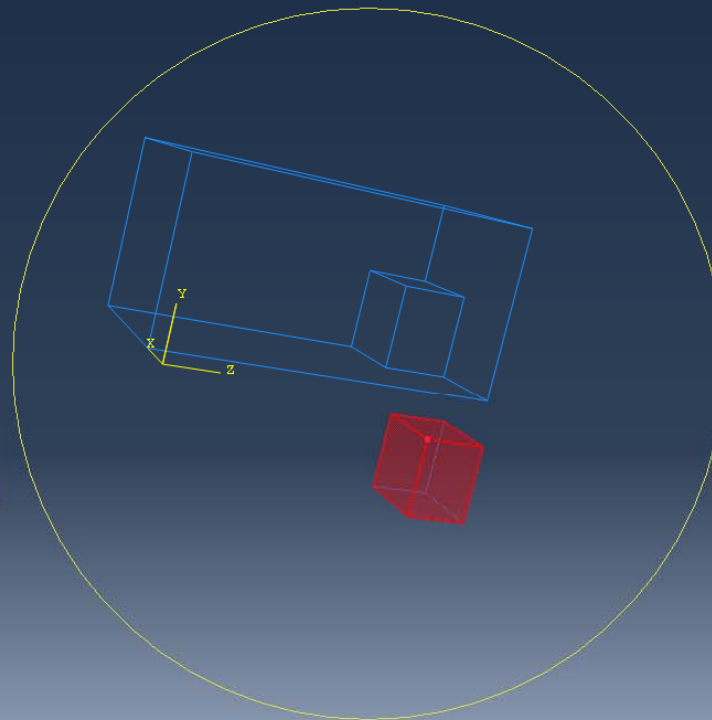
Step procedure:
Interaction type:
Interaction status:

Create... Copy... Rename... Delete... Dismiss

Interactions
Interaction Properties
Contact Controls
Contact Initializations
Constraints
Connector Sections
Fields
Amplitudes
Loads
BCs
Predefined Fields
Remeshing Rules
Sketches
Annotations
Analysis

Select a center of rotation 0.0,0.0,0.0

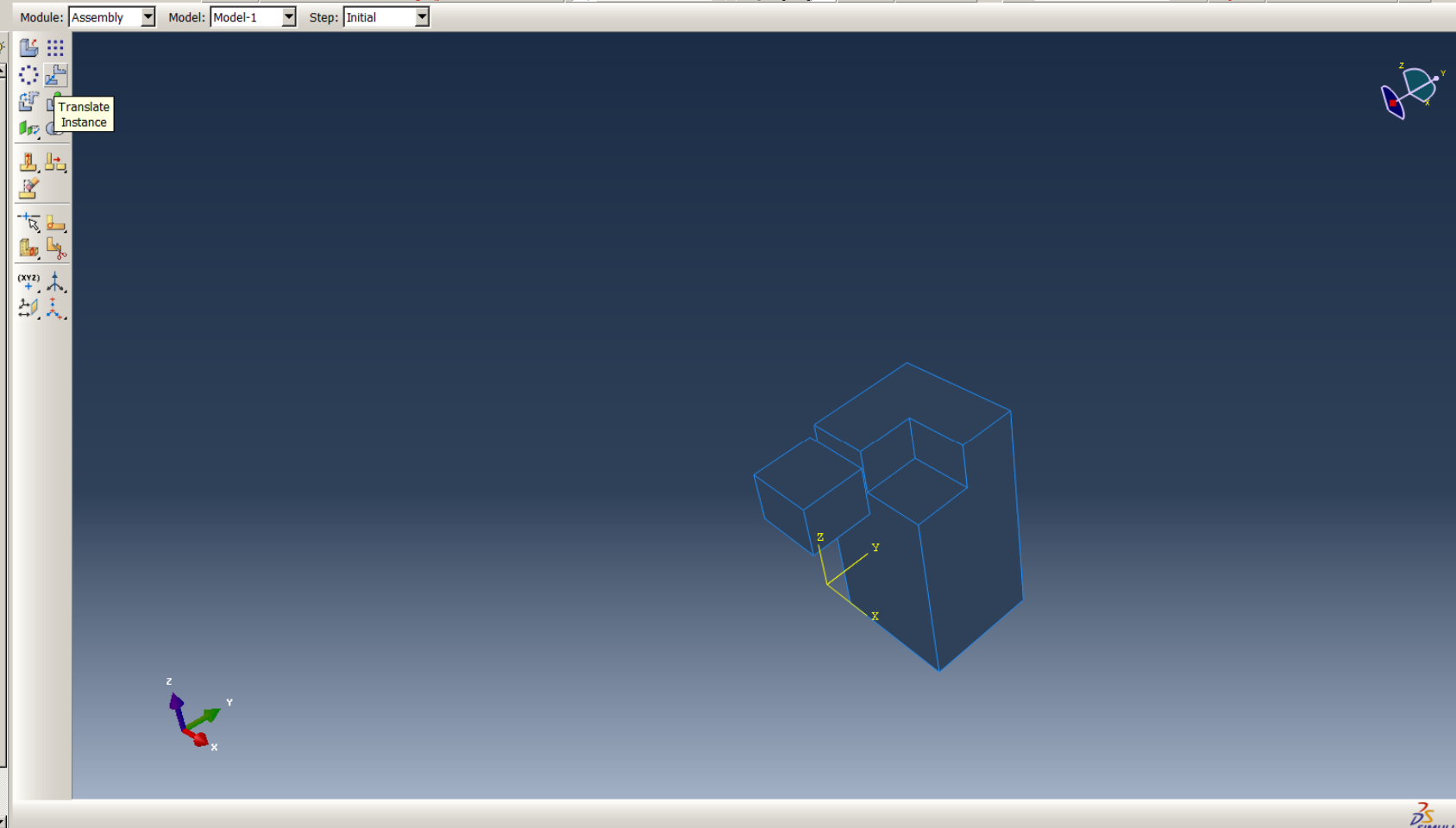
Distance: 5.E+03 Components: 5.E+03, 0., 0.
Point 1: 1.5E+03, 0., 10.E+03 Point 2: 4.E+03, 0., 10.E+03
Distance: 2.5E+03 Components: 2.5E+03, 0., 0
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system





Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials
 - Sections
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads
 - BCs
 - Predefined Fields
 - Remeshing Rules
 - Sketches
 - Annotations
 - Analysis



Point 1: 1.5E+03, 0., 10.E+03 Point 2: 4.E+03, 0., 10.E+03
 Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
 The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.
 The interaction property 'IntProp-1' has been created.
 The interaction 'Contact' has been created.

Module: Assembly Model: Model-1 Step: Initial

Model Database

Models (1)

Model-1

Parts (2)

Fundatia

Features (1)

Solid extrude-1

Sets

Surfaces

Skins

Stringers

Section Assignments

Orientations

Composite Layups

Engineering Features

Mesh (Empty)

Teren

Materials

Sections

Profiles

Assembly

Steps (2)

Field Output Requests (1)

History Output Requests (1)

Time Points

ALE Adaptive Mesh Constraints

Interactions (1)

Interaction Properties (1)

Contact Controls

Contact Initializations

Constraints

Connector Sections

Fields

Amplitudes

Loads

BCs

Predefined Fields

Remeshing Rules

Sketches

Annotations

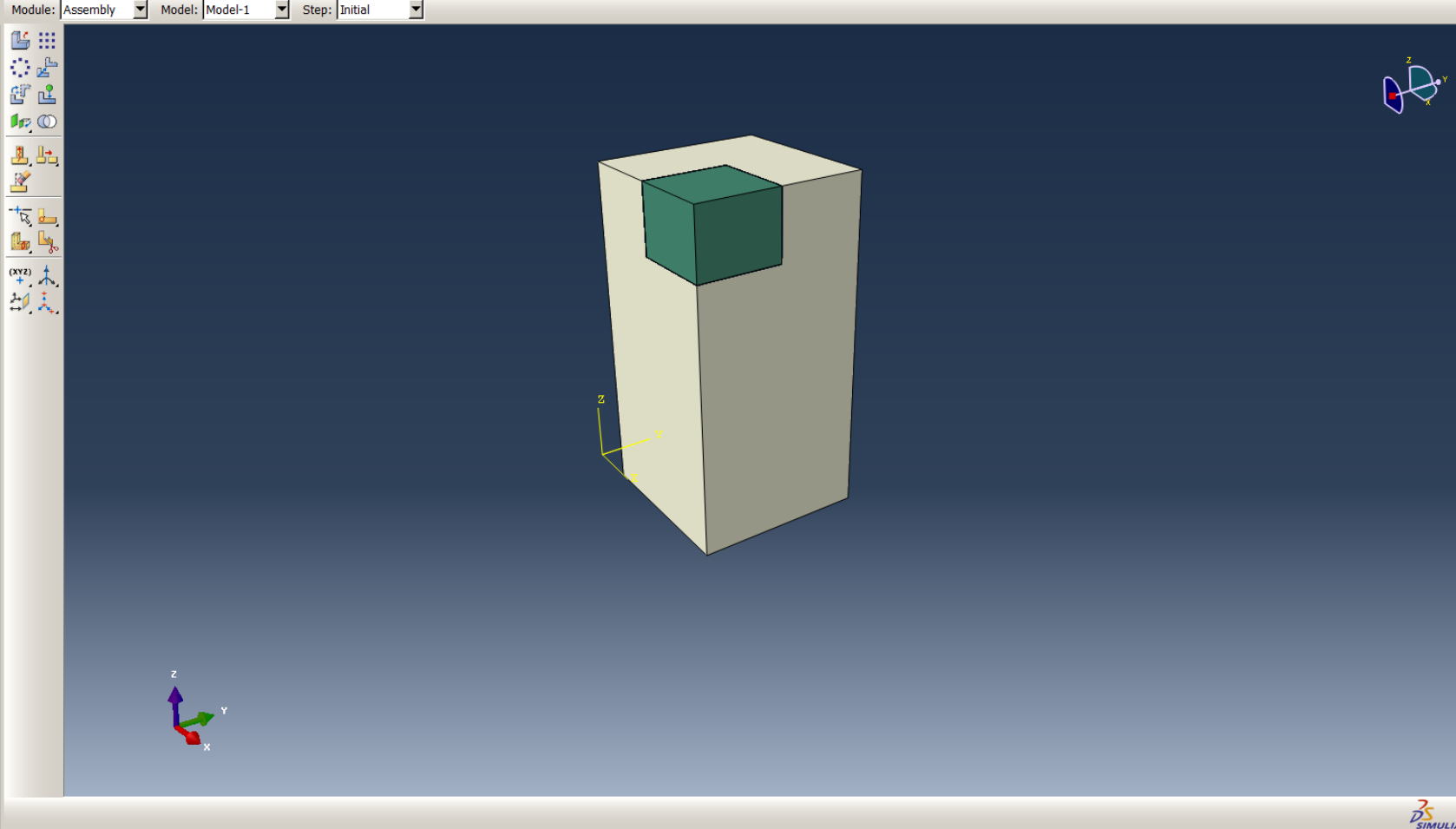
Analysis

Select a start point for the translation vector--or enter X,Y,Z: 0.0,0.0,0.0

Point 1: 1.5E+03, 0., 10.E+03 Point 2: 4.E+03, 0., 10.E+03
Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property 'IntProp-1' has been created.
The interaction 'Contact' has been created.

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials
 - Sections
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads
 - BCs
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1

Boundary Condition Manager

Name	Initial	Step-1
------	---------	--------

Step procedure:
Boundary condition type:
Boundary condition status:

Create... Copy... Rename... Delete... Dismiss

Steps (2)

Field Output Requests (1)

Create Boundary Condition

Name: BC-1

Step: Initial

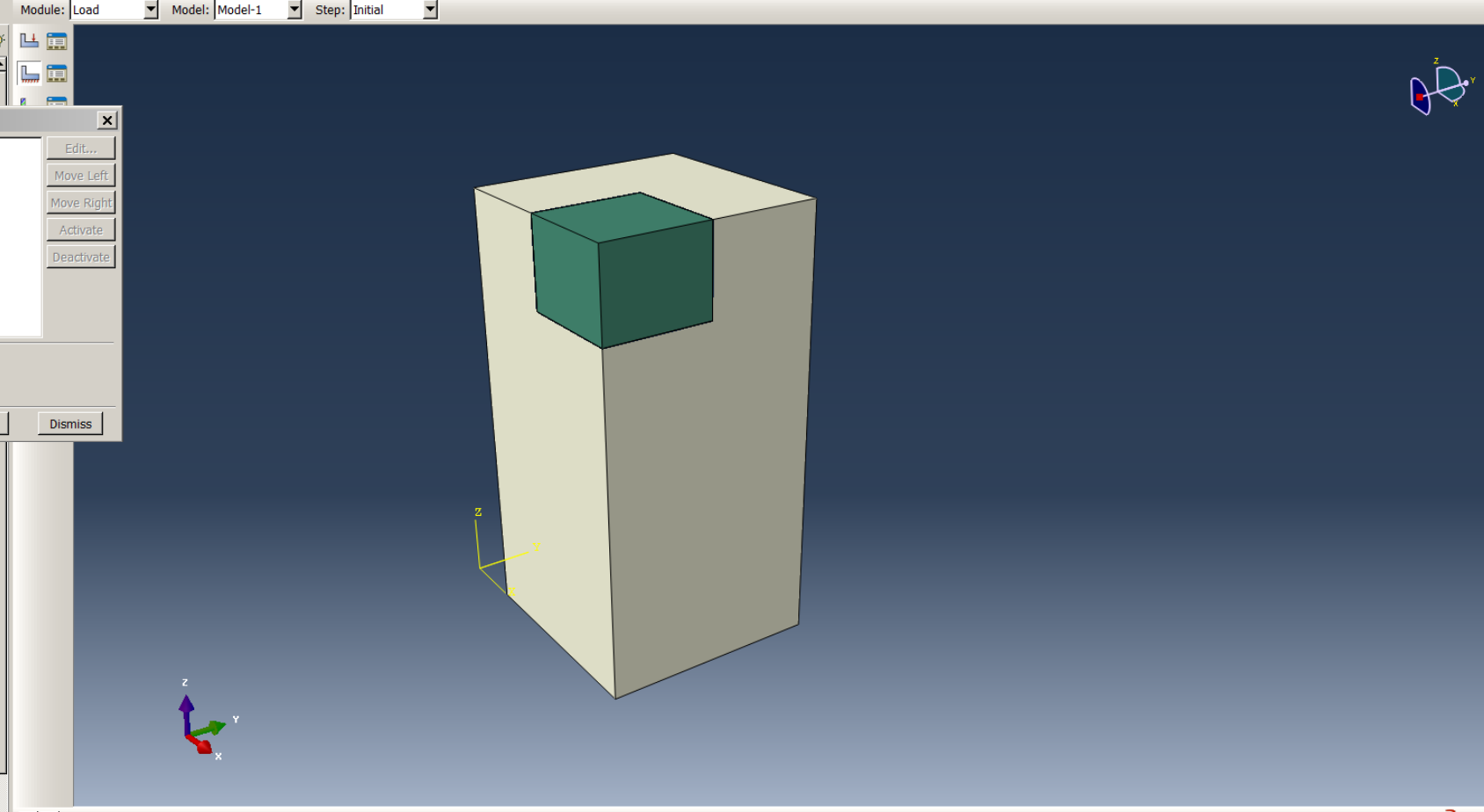
Procedure:

Category: Mechanical

Types for Selected Step:

- Symmetry/Antisymmetry/Encastre
- Displacement/Rotation
- Velocity/Angular velocity
- Acceleration/Angular acceleration
- Connector displacement
- Connector velocity
- Connector acceleration

Continue... Cancel



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1

Boundary Condition Manager

Name	Initial	Step-1
------	---------	--------

Step procedure:
Boundary condition type:
Boundary condition status:

Create... Copy... Rename... Delete... Dismiss

Steps (2)

Field Output Requests (1)

History Output Requests (1)

Time Points

ALE Adaptive Mesh Constraints

Interactions (1)

Interaction Properties (1)

Contact Controls

Contact Initializations

Constraints

Connector Sections

Fields

Amplitudes

Loads

BCs

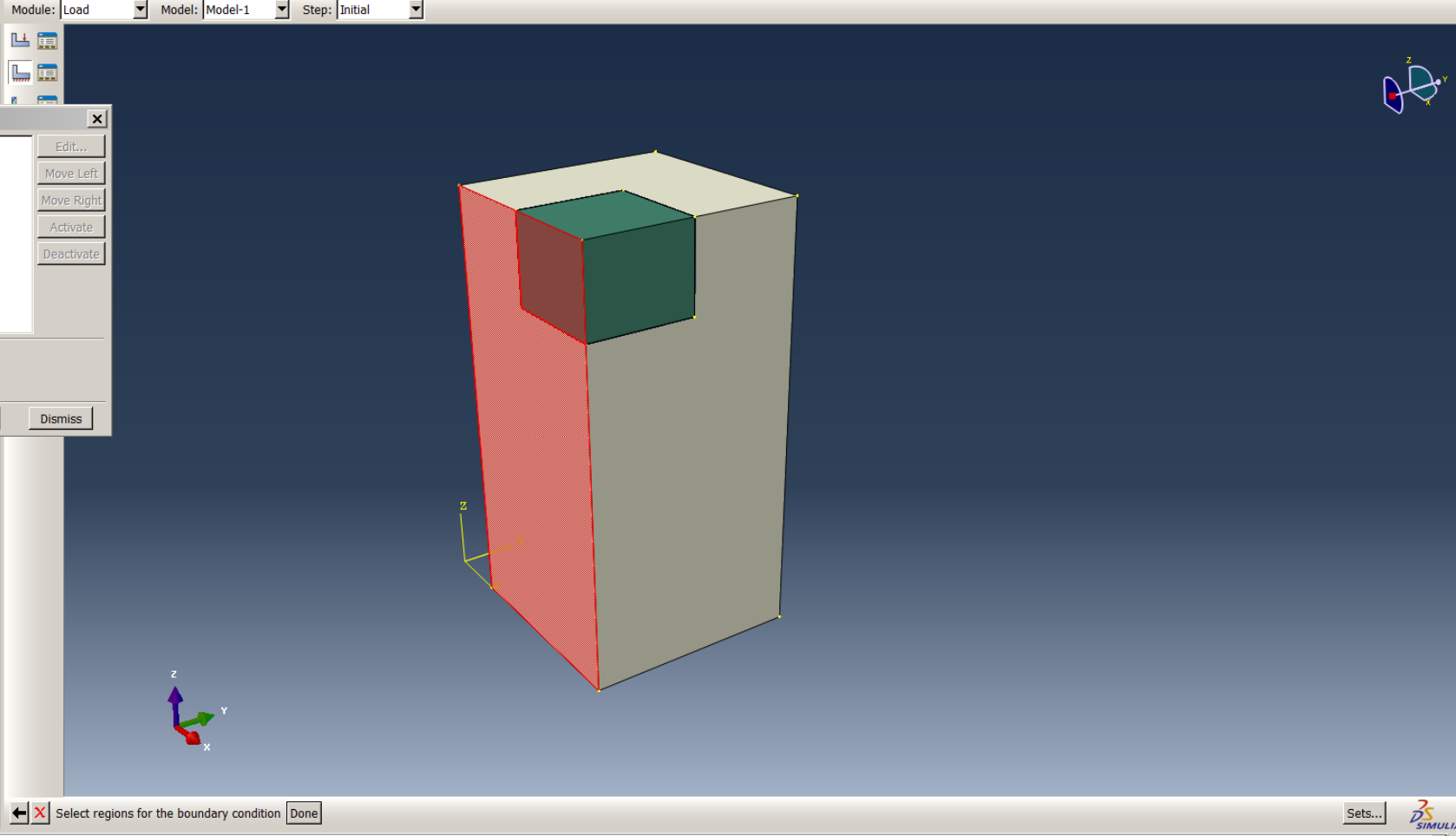
Predefined Fields

Remeshing Rules

Sketches

Annotations

Analysis



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1

Edit... Move Left Move Right Activate Deactivate

Step procedure:

Edit Boundary Condition

Name: BC-1

Type: Symmetry/Antisymmetry/Encastre

Step: Initial

Region: (Picked)

☐ XSYMM ($U_1 = U_2 = U_3 = 0$)

☒ YSYMM ($U_2 = U_1 = U_3 = 0$)

☐ ZSYMM ($U_3 = U_1 = U_2 = 0$)

☐ XASYMM ($U_2 = U_3 = U_1 = 0$; Abaqus/Standard only)

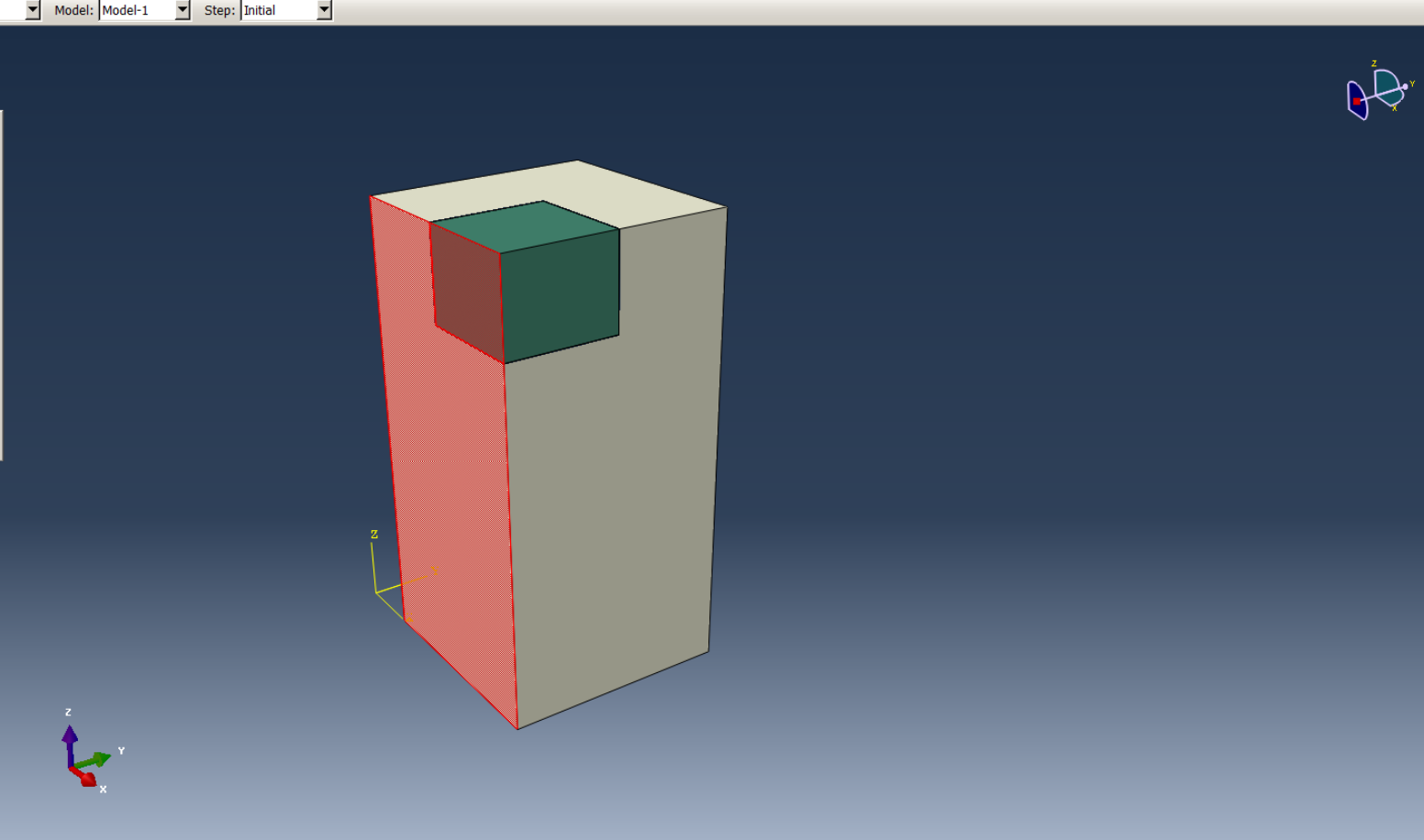
☐ YASYMM ($U_1 = U_3 = U_2 = 0$; Abaqus/Standard only)

☐ ZASYMM ($U_1 = U_2 = U_3 = 0$; Abaqus/Standard only)

☐ PINNED ($U_1 = U_2 = U_3 = 0$)

☐ ENCASTRE ($U_1 = U_2 = U_3 = U_1 = U_2 = U_3 = 0$)

OK Cancel



BCs

Predefined Fields

Remeshing Rules

Sketches

Annotations

Analysis

Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1
BC-1	Created	Propagated

Edit... Move Left Move Right Activate Deactivate

Step procedure:

Edit Boundary Condition

Name: BC-2

Type: Symmetry/Antisymmetry/Encastre

Step: Initial

Region: (Picked)

☒ XSYMM ($U_1 = U_2 = U_3 = 0$)

☐ YSYMM ($U_2 = U_1 = U_3 = 0$)

☐ ZSYMM ($U_3 = U_1 = U_2 = 0$)

☐ XASYMM ($U_2 = U_3 = U_1 = 0$; Abaqus/Standard only)

☐ YASYMM ($U_1 = U_3 = U_2 = 0$; Abaqus/Standard only)

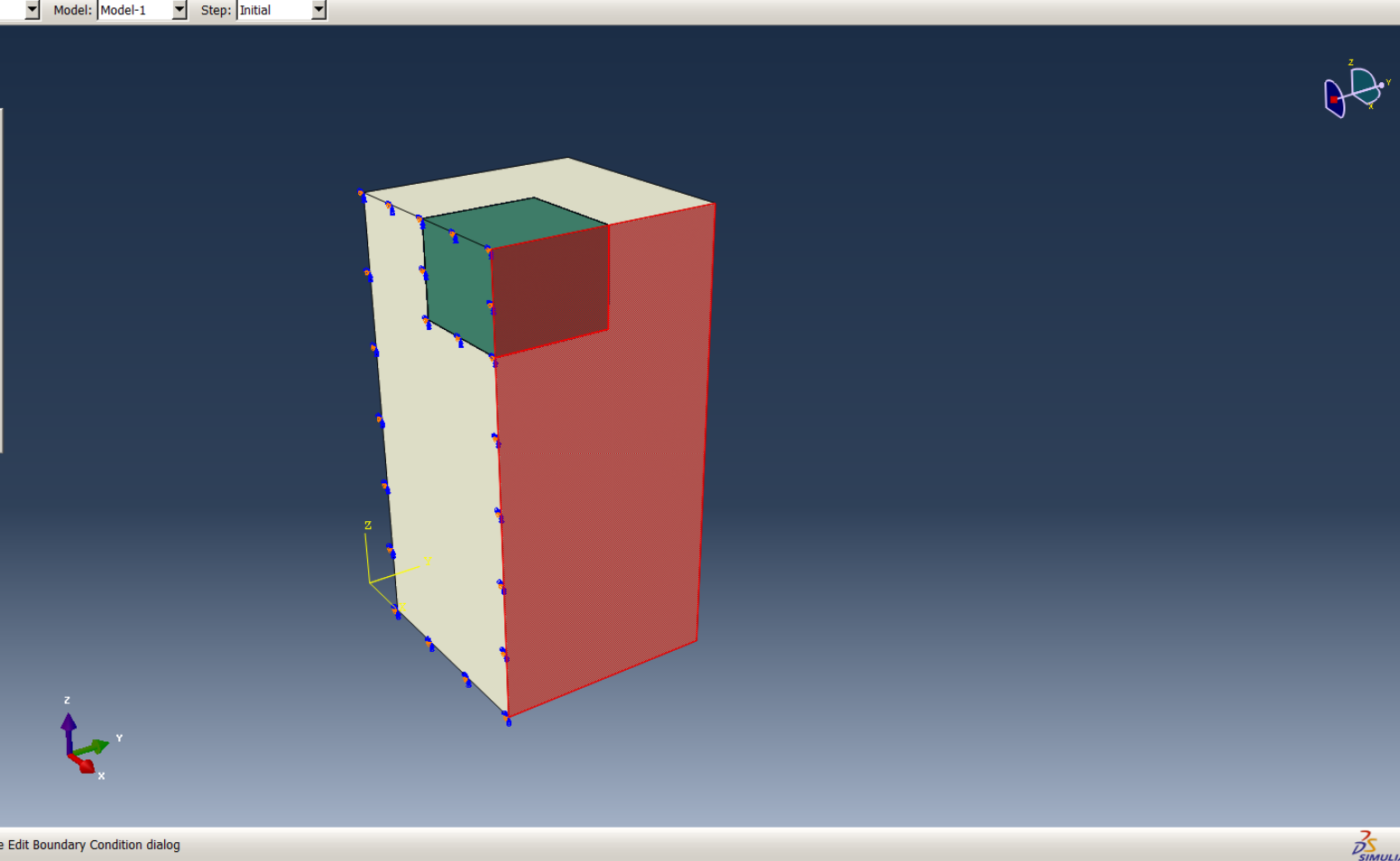
☐ ZASYMM ($U_1 = U_2 = U_3 = 0$; Abaqus/Standard only)

☐ PINNED ($U_1 = U_2 = U_3 = 0$)

☐ ENCASTRE ($U_1 = U_2 = U_3 = U_1 = U_2 = U_3 = 0$)

OK Cancel

- BCs (1)
- Predefined Fields
- Remeshing Rules
- Sketches
- Annotations
- Analysis



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1
✓ BC-1	Created	Propagated
✓ BC-2	Created	Propagated

Step procedure:

Boundary condition type: Symmetry/Antisymmetry/Encastre

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

Steps (2)

Field Output Requests (1)

Create Boundary Condition

Name: BC-3

Step: Initial

Procedure:

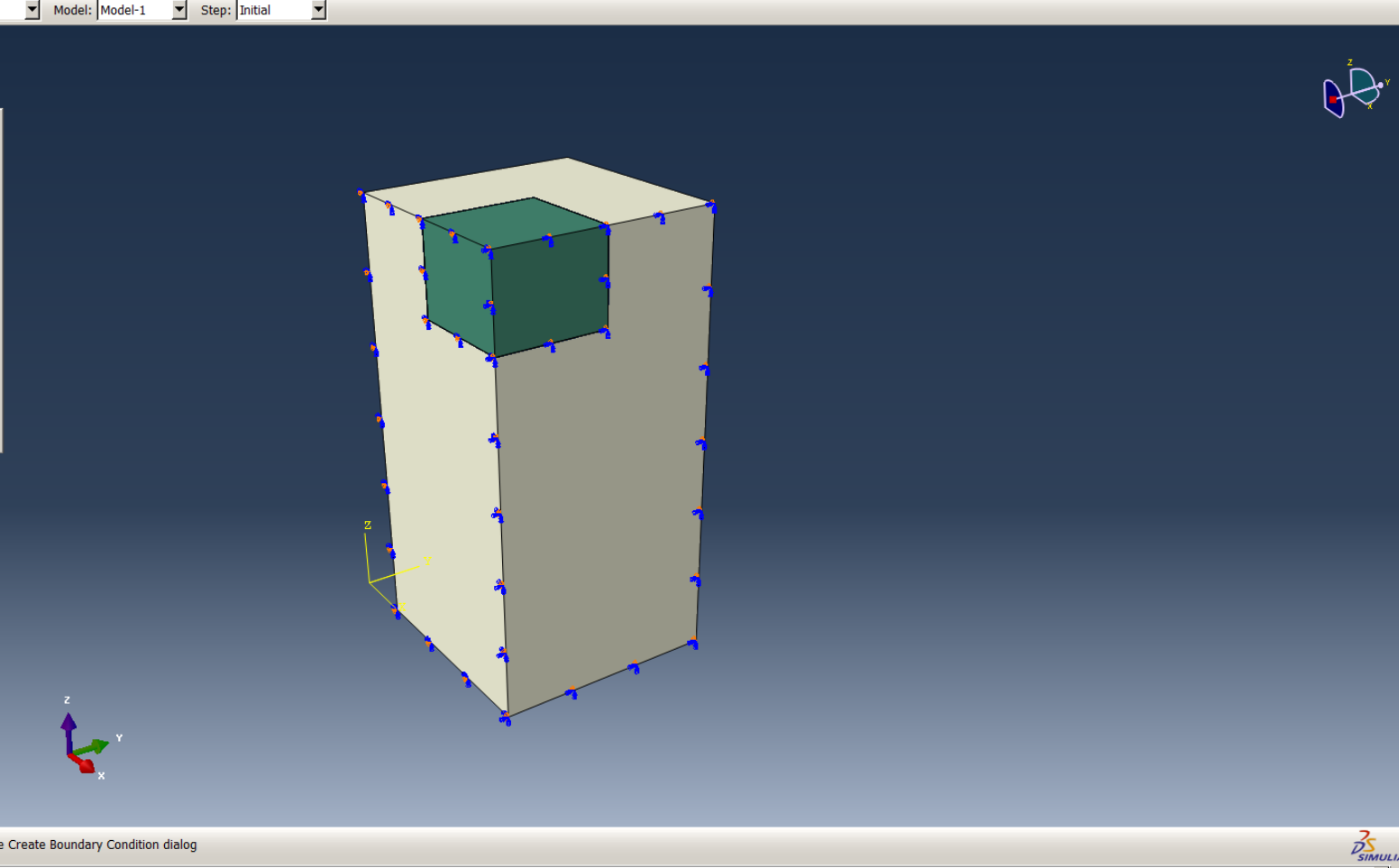
Category

- ☒ Mechanical
- ☐ Fluid
- ☐ Other

Types for Selected Step

- Symmetry/Antisymmetry/Encastre
- Displacement/Rotation**
- Velocity/Angular velocity
- Acceleration/Angular acceleration
- Connector displacement
- Connector velocity
- Connector acceleration

Continue... Cancel



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1
✓ BC-1	Created	Propagated
✓ BC-2	Created	Propagated

Edit... Move Left Move Right Activate Deactivate

Step procedure:

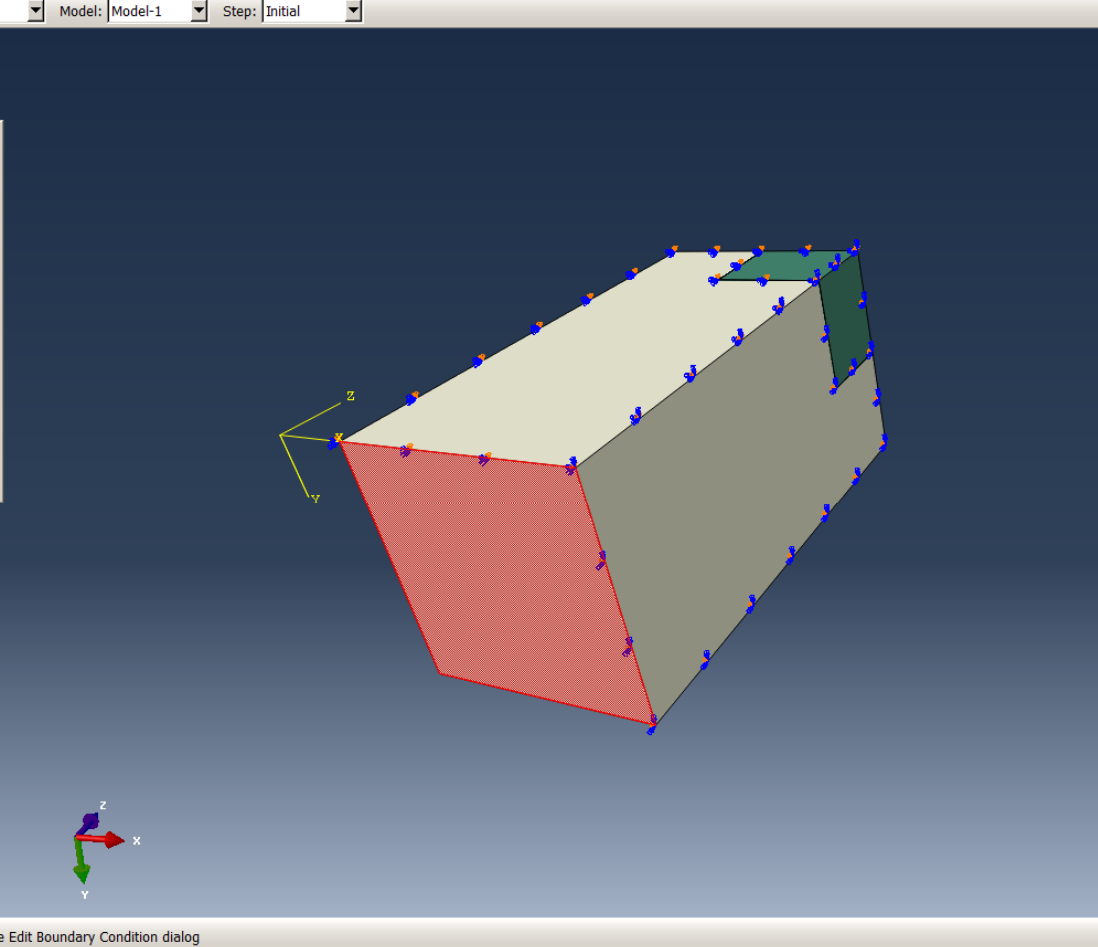
Boundary condition type: Symmetry/Antisymmetry/Encastre

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

- Steps (2)
- Field Output Requests (1)
- History Output Requests (1)
- Time Points
- ALE Adaptive Mesh Constraints
- Interactions (1)
- Interaction Properties (1)
- Contact Controls
- Contact Initializations
- Constraints
- Connector Sections
- Fields
- Amplitudes
- Loads
- BCs (2)
- Predefined Fields
- Remeshing Rules
- Sketches
- Annotations
- Analysis

Fill out the Edit Boundary Condition dialog



Edit Boundary Condition

Name: BC-3

Type: Displacement/Rotation

Step: Initial

Region: (Picked)

CSYS: (Global) Edit... Create...

☐ U1

☐ U2

☒ U3

☐ UR1

☐ UR2

☐ UR3

Note: The displacement value will be maintained in subsequent steps.

OK Cancel

Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1

Boundary Condition Manager

Name	Initial	Step-1
✓ BC-1	Created	Propagated
✓ BC-2	Created	Propagated
✓ BC-3	Created	Propagated

Step procedure:

Boundary condition type: Displacement/Rotation

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

Steps (2)

Field Output Requests (1)

Create Boundary Condition

Name: BC-4

Step: Initial

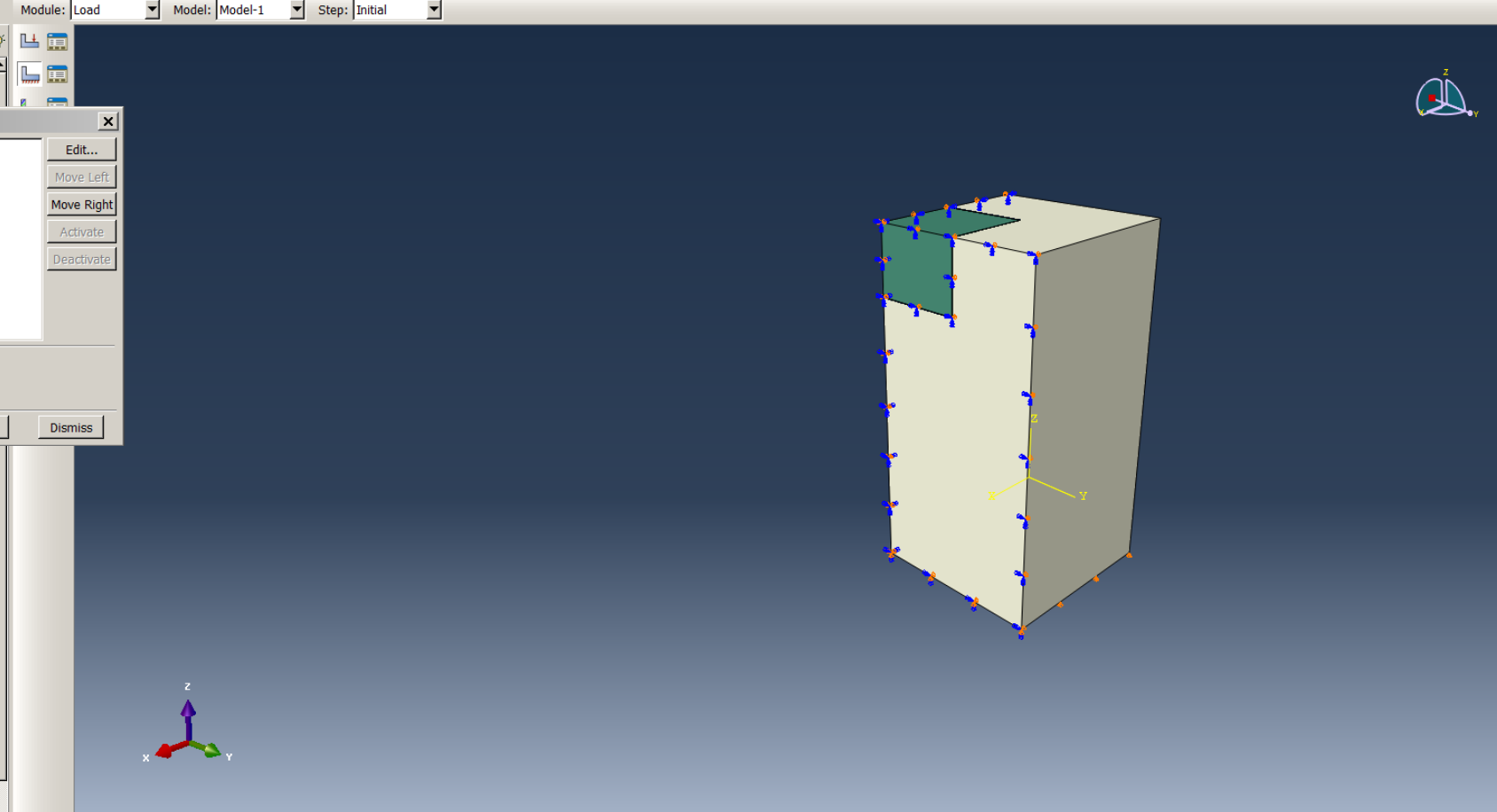
Procedure:

Category: Mechanical

Types for Selected Step:

- Symmetry/Antisymmetry/Encastre
- Displacement/Rotation
- Velocity/Angular velocity
- Acceleration/Angular acceleration
- Connector displacement
- Connector velocity
- Connector acceleration

Continue... Cancel



Fill out the Create Boundary Condition dialog

Distance: 2.5E+03 Components: 2.5E+03, 0., 0.

The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.

The interaction property "IntProp-1" has been created.

The interaction "Contact" has been created.

The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1
✓ BC-1	Created	Propagated
✓ BC-2	Created	Propagated
✓ BC-3	Created	Propagated

Edit... Move Left Move Right Activate Deactivate

Step procedure:

Boundary condition type: Displacement/Rotation

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

- Steps (2)
- Field Output Requests (1)
- History Output Requests (1)
- Time Points
- ALE Adaptive Mesh Constraints
- Interactions (1)
- Interaction Properties (1)
- Contact Controls
- Contact Initializations
- Constraints
- Connector Sections
- Fields
- Amplitudes
- Loads
- BCs (3)
- Predefined Fields
- Remeshing Rules
- Sketches
- Annotations
- Analysis

Fill out the Edit Boundary Condition dialog

Edit Boundary Condition

Name: BC-4

Type: Displacement/Rotation

Step: Initial

Region: (Picked)

CSYS: (Global) Edit... Create...

☐ U1

☒ U2

☐ U3

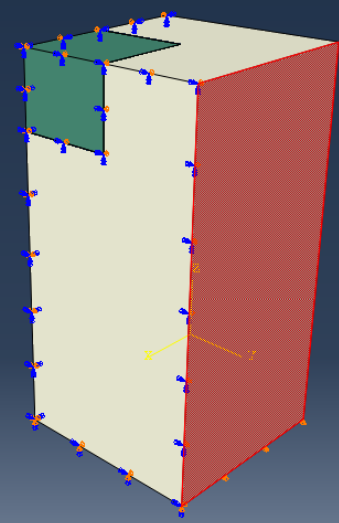
☐ UR1

☐ UR2

☐ UR3

Note: The displacement value will be maintained in subsequent steps.

OK Cancel



Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Name	Initial	Step-1
BC-1	Created	Propagated
BC-2	Created	Propagated
BC-3	Created	Propagated
BC-4	Created	Propagated

Boundary Condition Manager

Step procedure:

Boundary condition type: Displacement/Rotation

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

Steps (2)

Field Output Requests (1)

Create Boundary Condition

Name: BC-5

Step: Initial

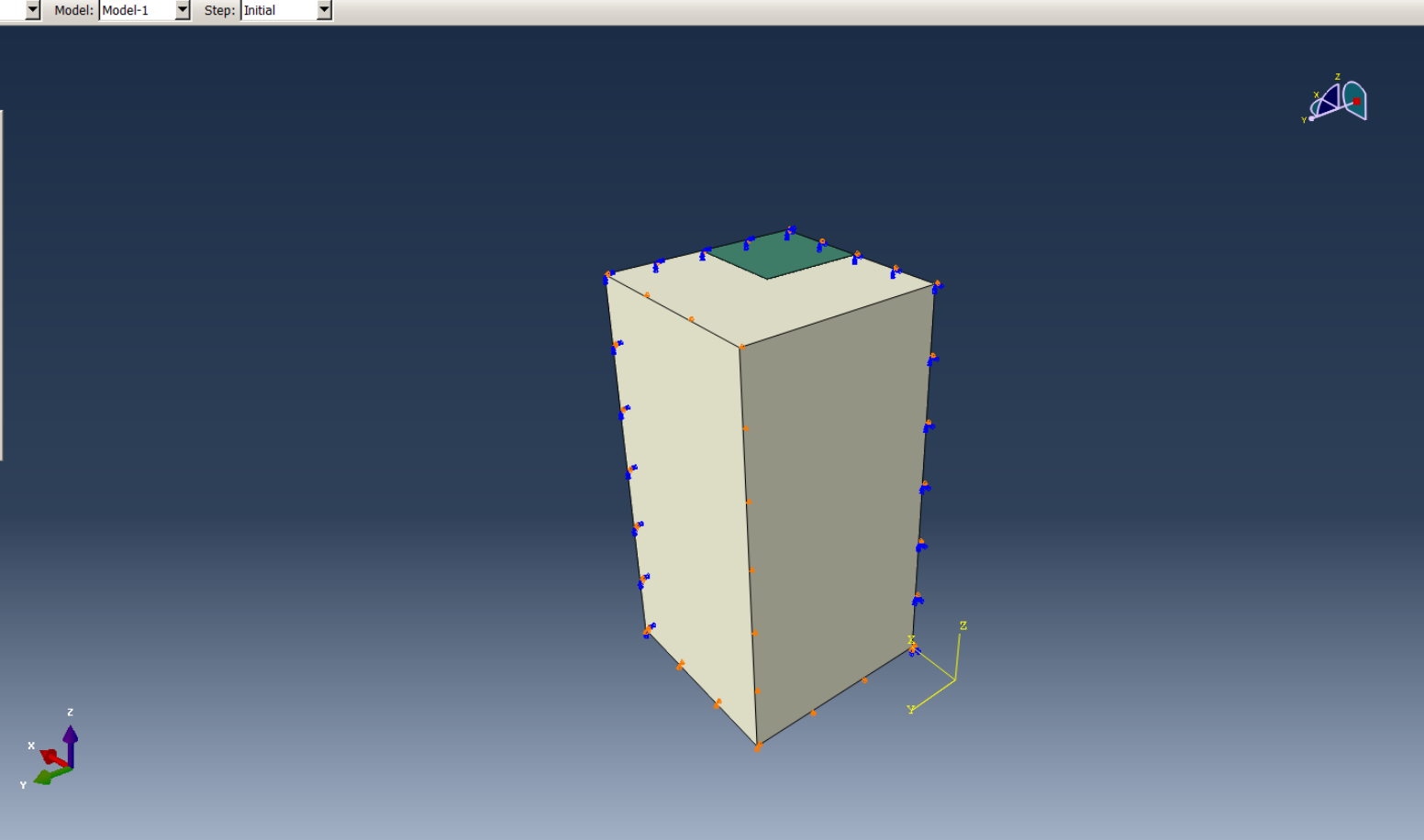
Procedure:

Category: Mechanical

Types for Selected Step:

- Symmetry/Antisymmetry/Encastre
- Displacement/Rotation
- Velocity/Angular velocity
- Acceleration/Angular acceleration
- Connector displacement
- Connector velocity
- Connector acceleration

Continue... Cancel



Fill out the Create Boundary Condition dialog

Distance: 2.5E+03 Components: 2.5E+03, 0., 0.

The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.

The interaction property "IntProp-1" has been created.

The interaction "Contact" has been created.

The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

Models (1)

- Model-1
 - Parts (3)

Boundary Condition Manager

Name	Initial	Step-1
✓ BC-1	Created	Propagated
✓ BC-2	Created	Propagated
✓ BC-3	Created	Propagated
✓ BC-4	Created	Propagated

Edit... Move Left Move Right Activate Deactivate

Step procedure:

Boundary condition type: Displacement/Rotation

Boundary condition status: Created in this step

Create... Copy... Rename... Delete... Dismiss

- Steps (2)
- Field Output Requests (1)
- History Output Requests (1)
- Time Points
- ALE Adaptive Mesh Constraints
- Interactions (1)
- Interaction Properties (1)
- Contact Controls
- Contact Initializations
- Constraints
- Connector Sections
- Fields
- Amplitudes
- Loads
- BCs (4)
- Predefined Fields
- Remeshing Rules
- Sketches
- Annotations
- Analysis

Edit Boundary Condition

Name: BC-5

Type: Displacement/Rotation

Step: Initial

Region: (Picked)

CSYS: (Global) Edit... Create...

☒ U1

☐ U2

☐ U3

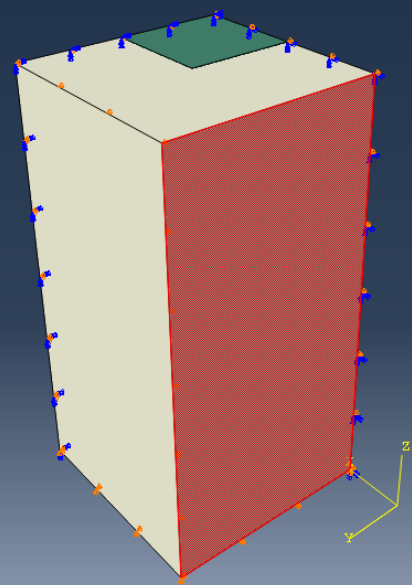
☐ UR1

☐ UR2

☐ UR3

Note: The displacement value will be maintained in subsequent steps.

OK Cancel

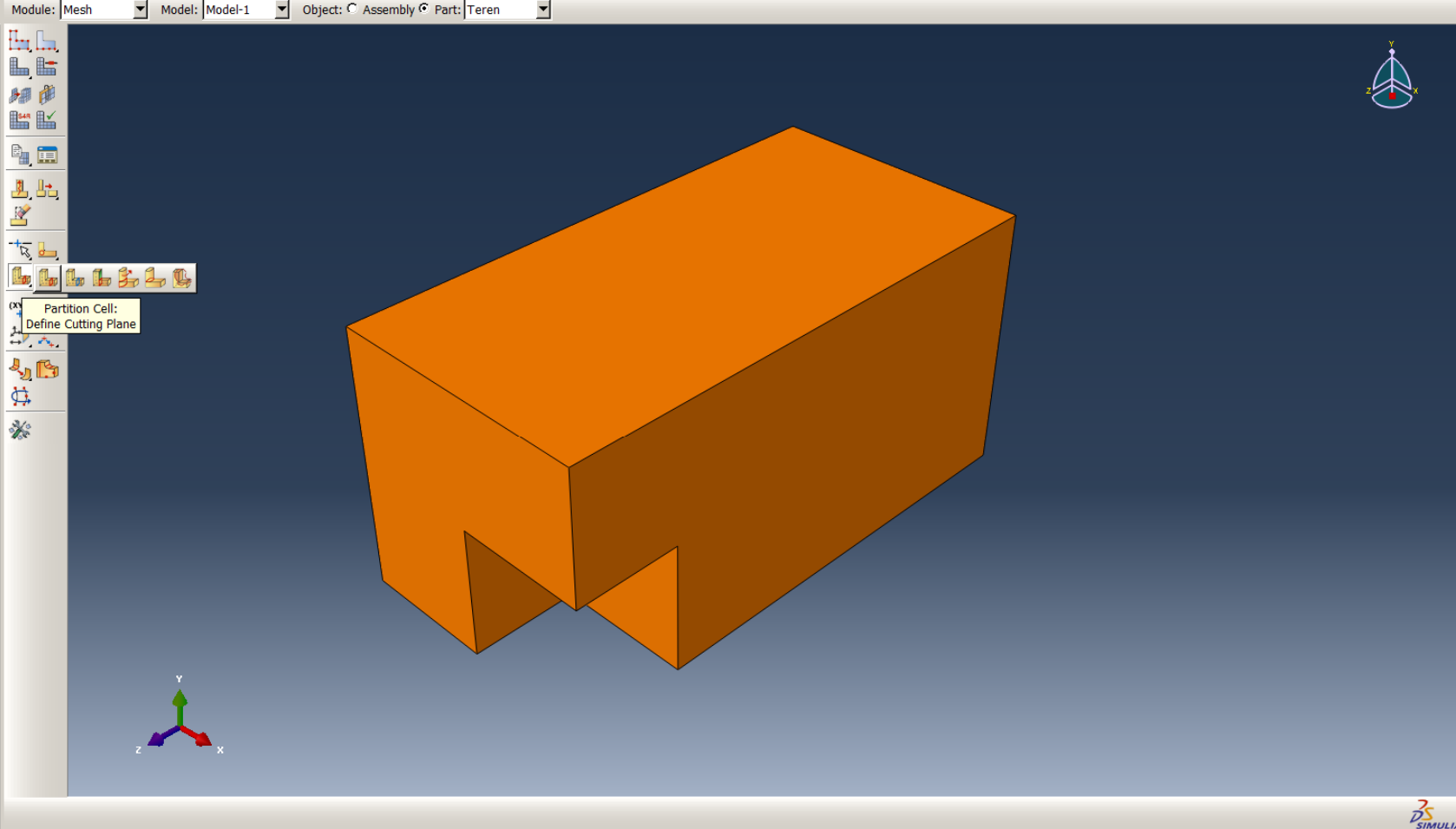


Fill out the Edit Boundary Condition dialog

Distance: 2.5E+03 Components: 2.5E+03, 0., 0.
The instance Fundatia-1 was translated by 0., -5.E+03, 0. with respect to the assembly coordinate system.
The interaction property "IntProp-1" has been created.
The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches

- Annotations
- Analysis


The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.

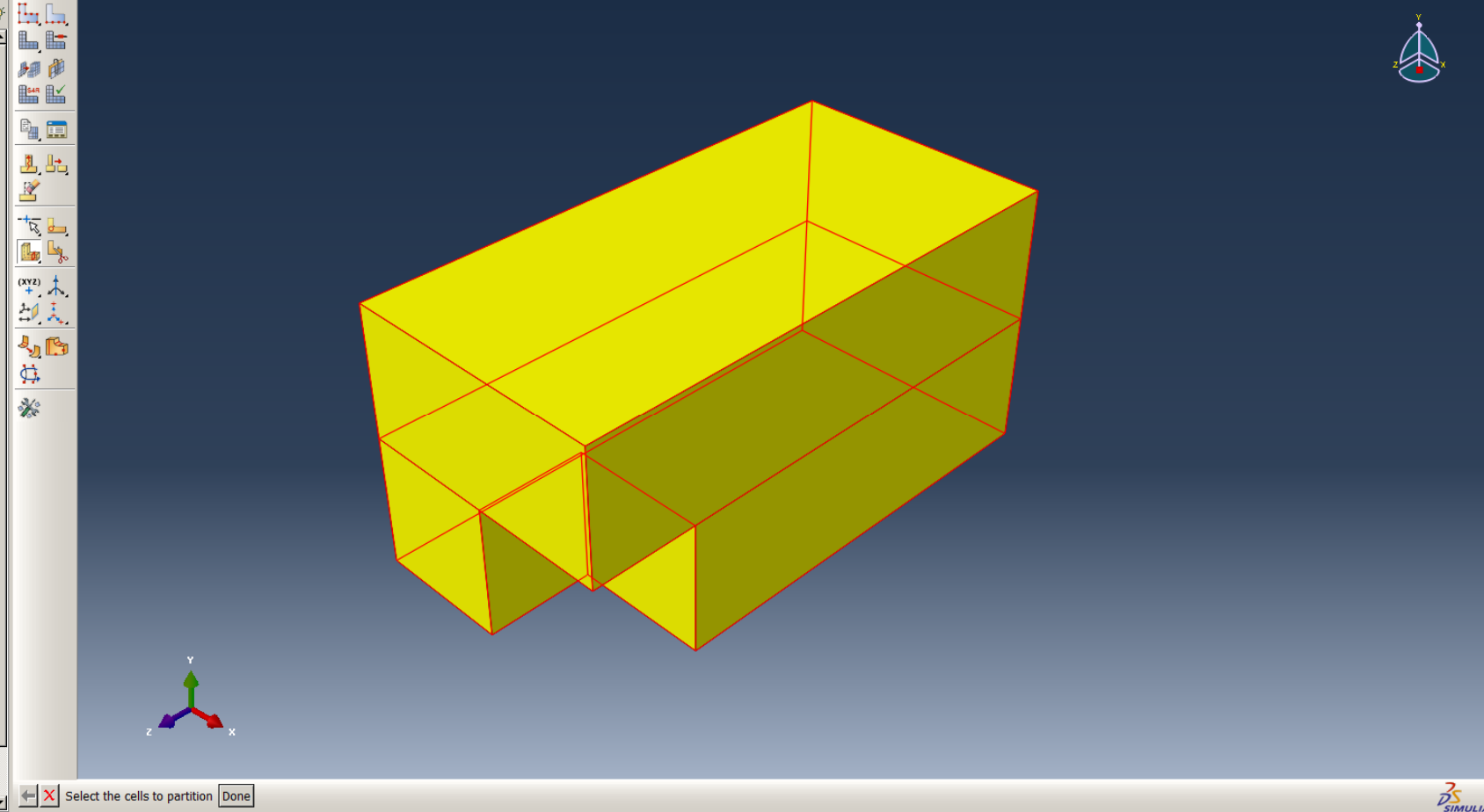
Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches

Partition definition complete Create Partition

The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.

- Model Database
 - Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches

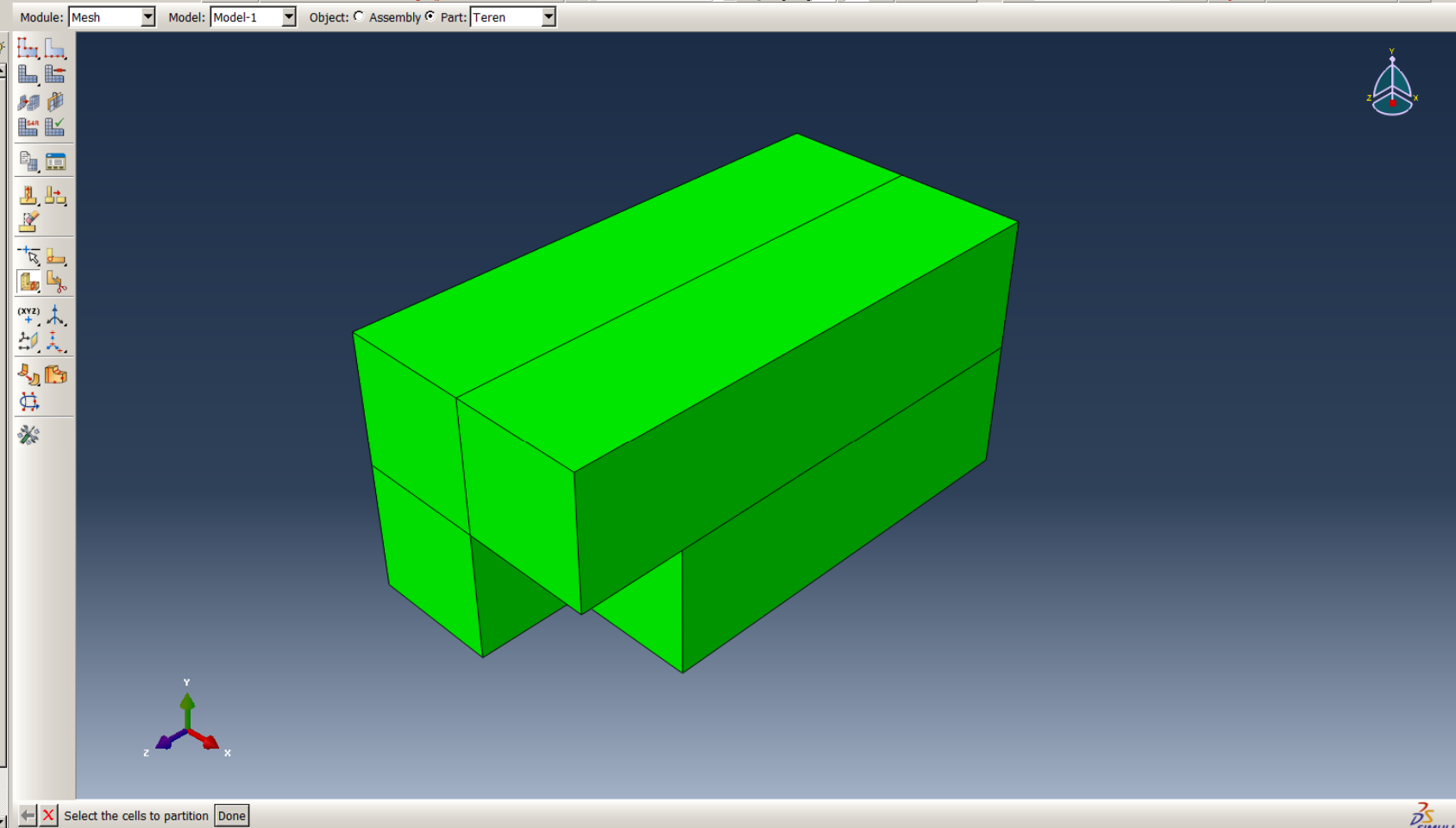
- Annotations
- Analysis

Partition definition complete Create Partition

The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.

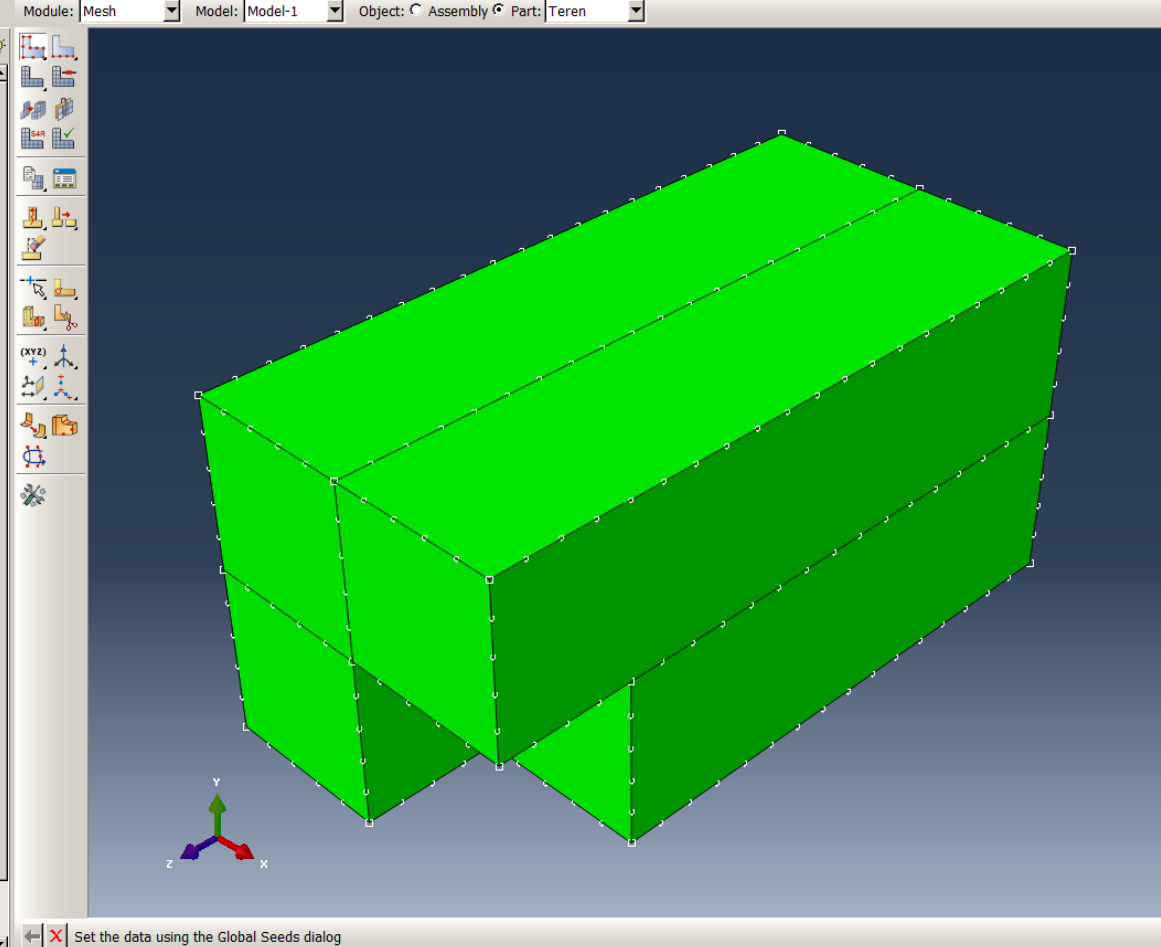
Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches



The interaction "Contact" has been created.
 The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
 Global seeds have been assigned.
 Global seeds have been assigned.
 Global seeds have been assigned.

- Model Database
- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
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 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



Global Seeds

Sizing Controls

Approximate global size: 500

☒ Curvature control

Maximum deviation factor (0.0 < h/L < 1.0): 0.1
(Approximate number of elements per circle: 8)

Minimum size factor (as a fraction of global size):

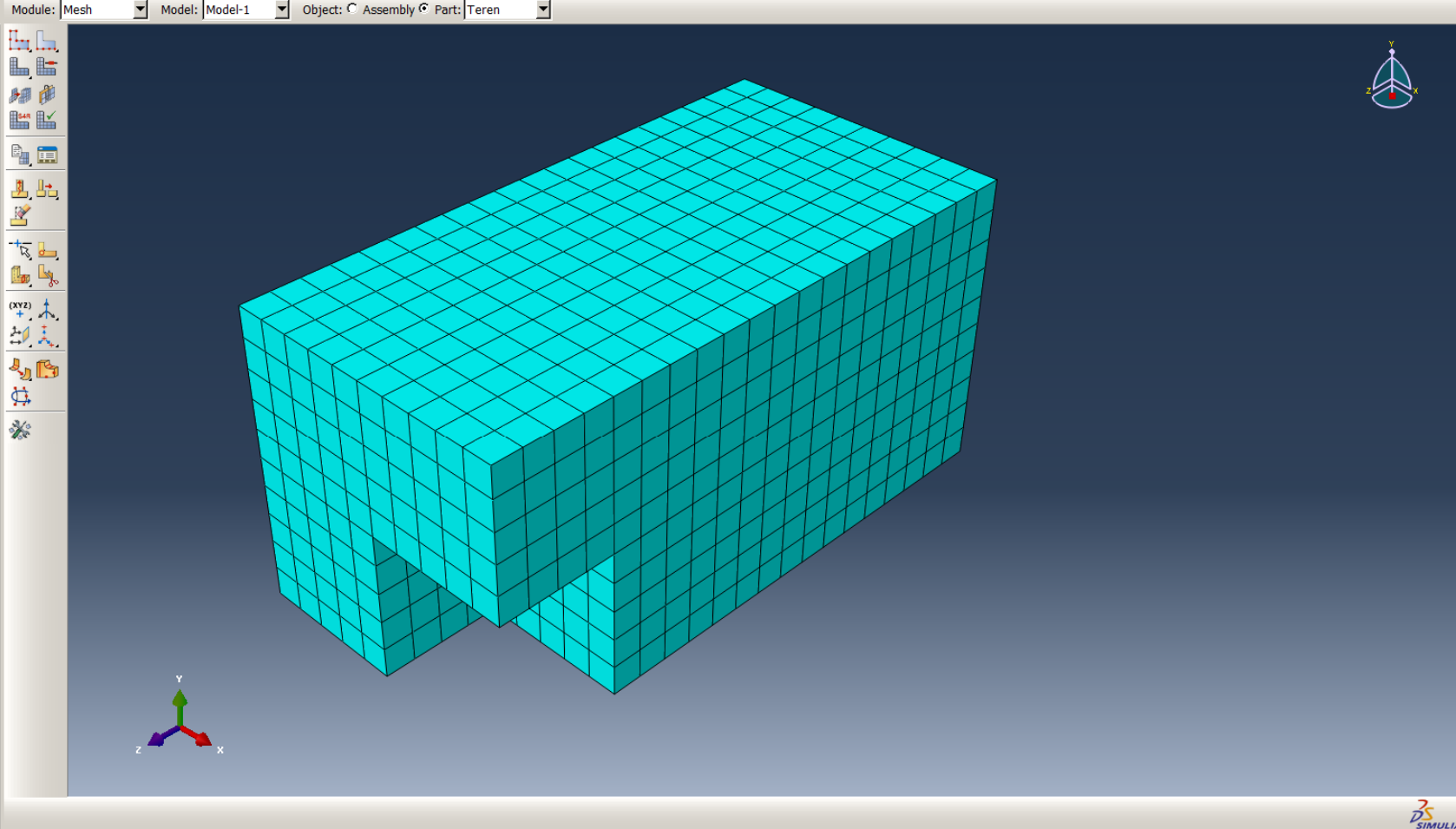
☒ Use default (0.1) ☐ Specify (0.0 < min < 1.0) 0.1

OK Apply Defaults Cancel

The interaction "Contact" has been created.
The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.

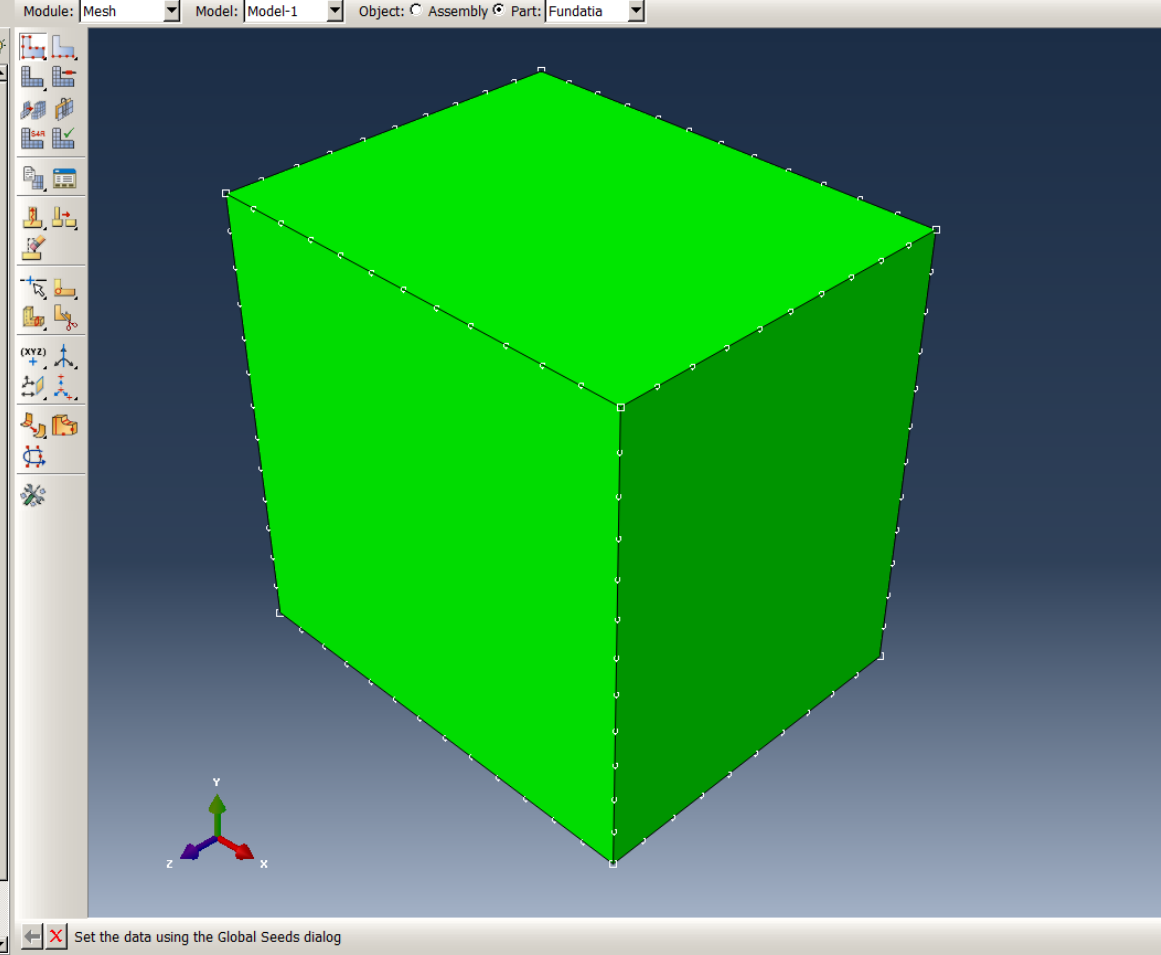
Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



The instance Fundatia-1 was translated by 0., 4.5E+03, -2.E+03 with respect to the assembly coordinate system
Global seeds have been assigned.
Global seeds have been assigned.
Global seeds have been assigned.
1900 elements have been generated on part: Teren

- Model Database
- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh (Empty)
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
 - Annotations
 - Analysis



Global Seeds

Sizing Controls

Approximate global size: 200

☒ Curvature control

Maximum deviation factor ($0.0 < h/L < 1.0$): 0.1
(Approximate number of elements per circle: 8)

Minimum size factor (as a fraction of global size):

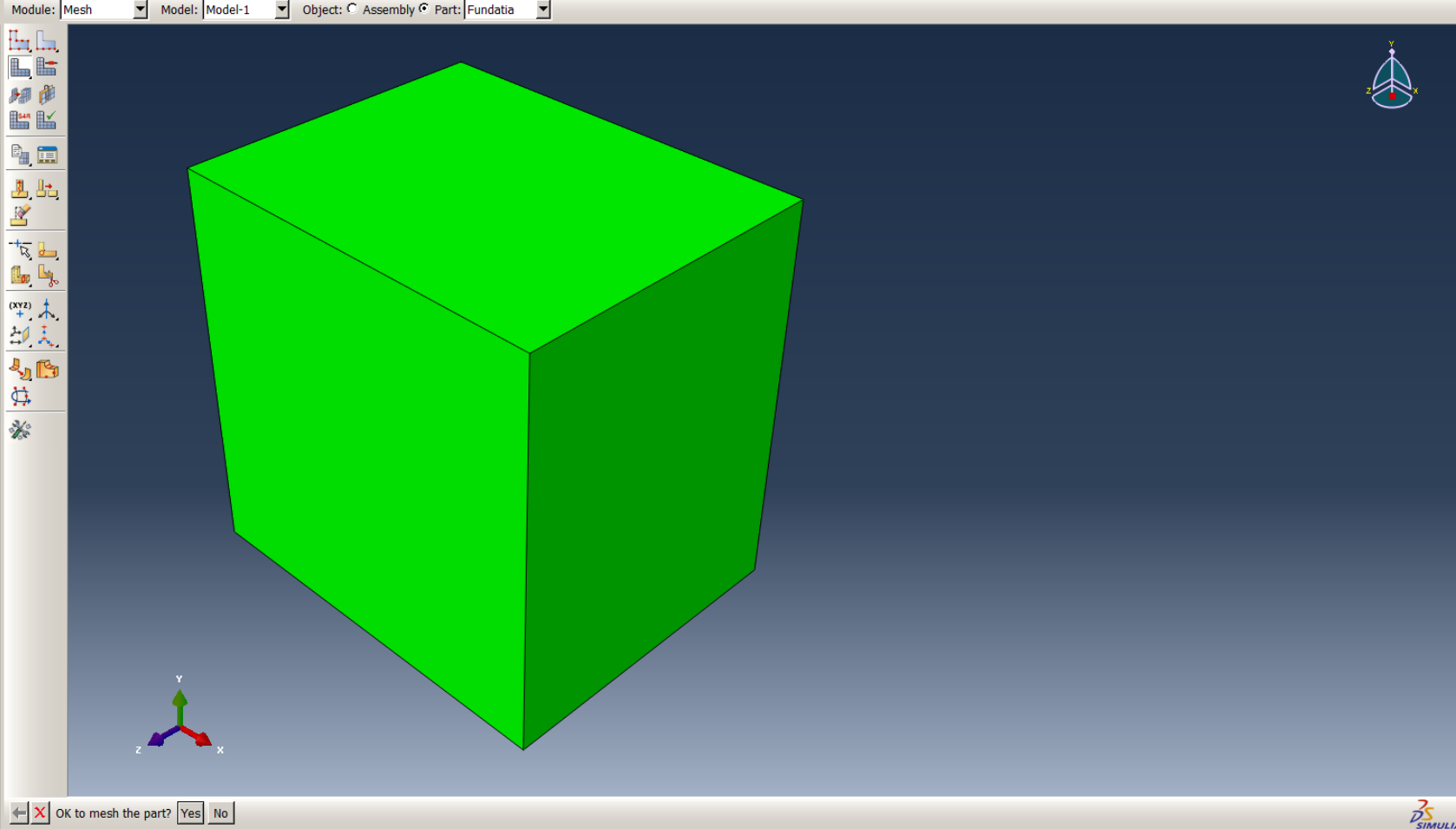
☒ Use default (0.1) ☐ Specify ($0.0 < \text{min} < 1.0$) 0.1

OK Apply Defaults Cancel

Global seeds have been assigned.
Global seeds have been assigned.
1900 elements have been generated on part: Teren
Global seeds have been assigned.
Global seeds have been assigned.

Model Database

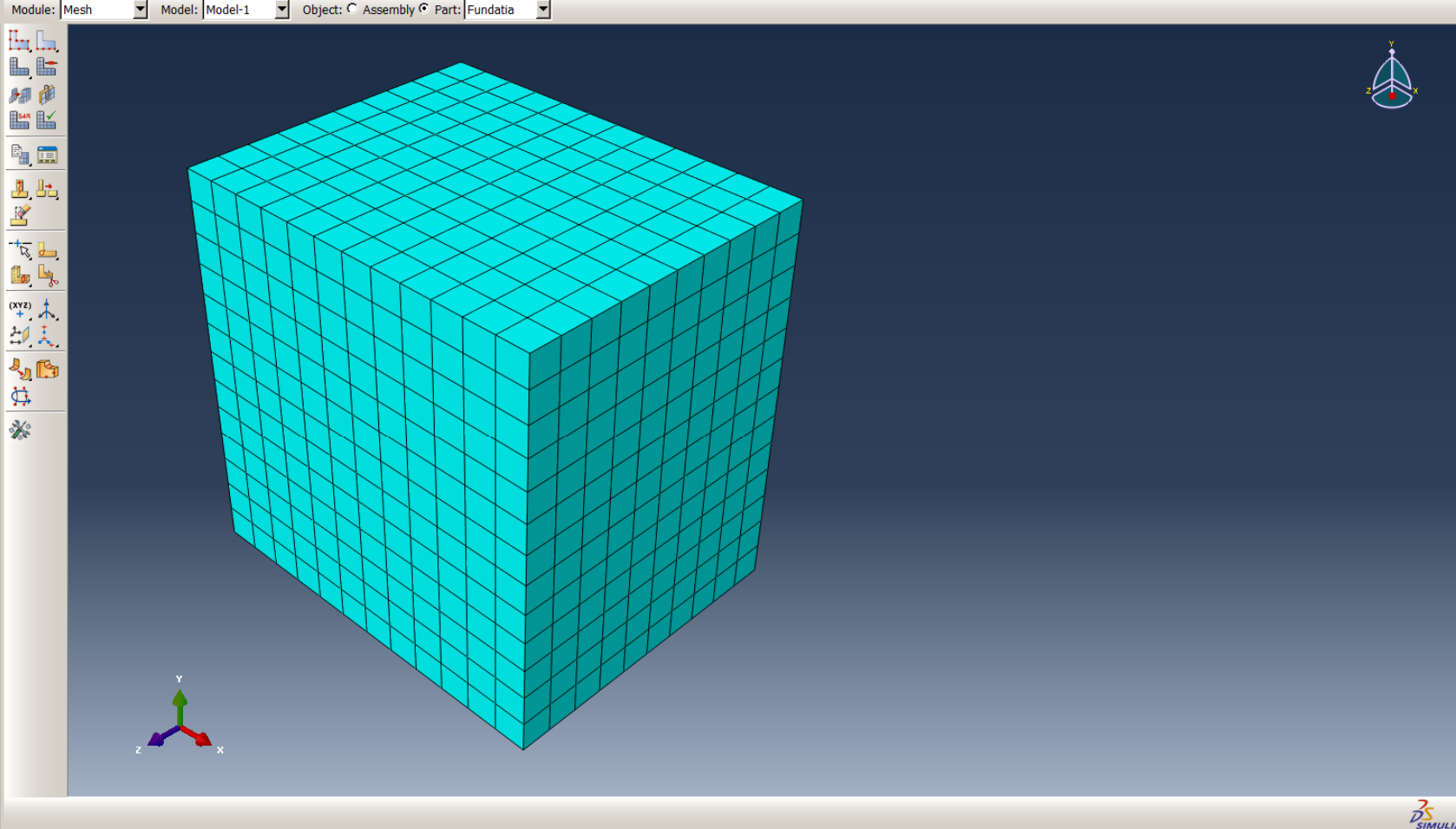
- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
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 - Mesh (Empty)
 - Terren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



Global seeds have been assigned.
Global seeds have been assigned.
1900 elements have been generated on part: Terren
Global seeds have been assigned.
Global seeds have been assigned.

Model Database

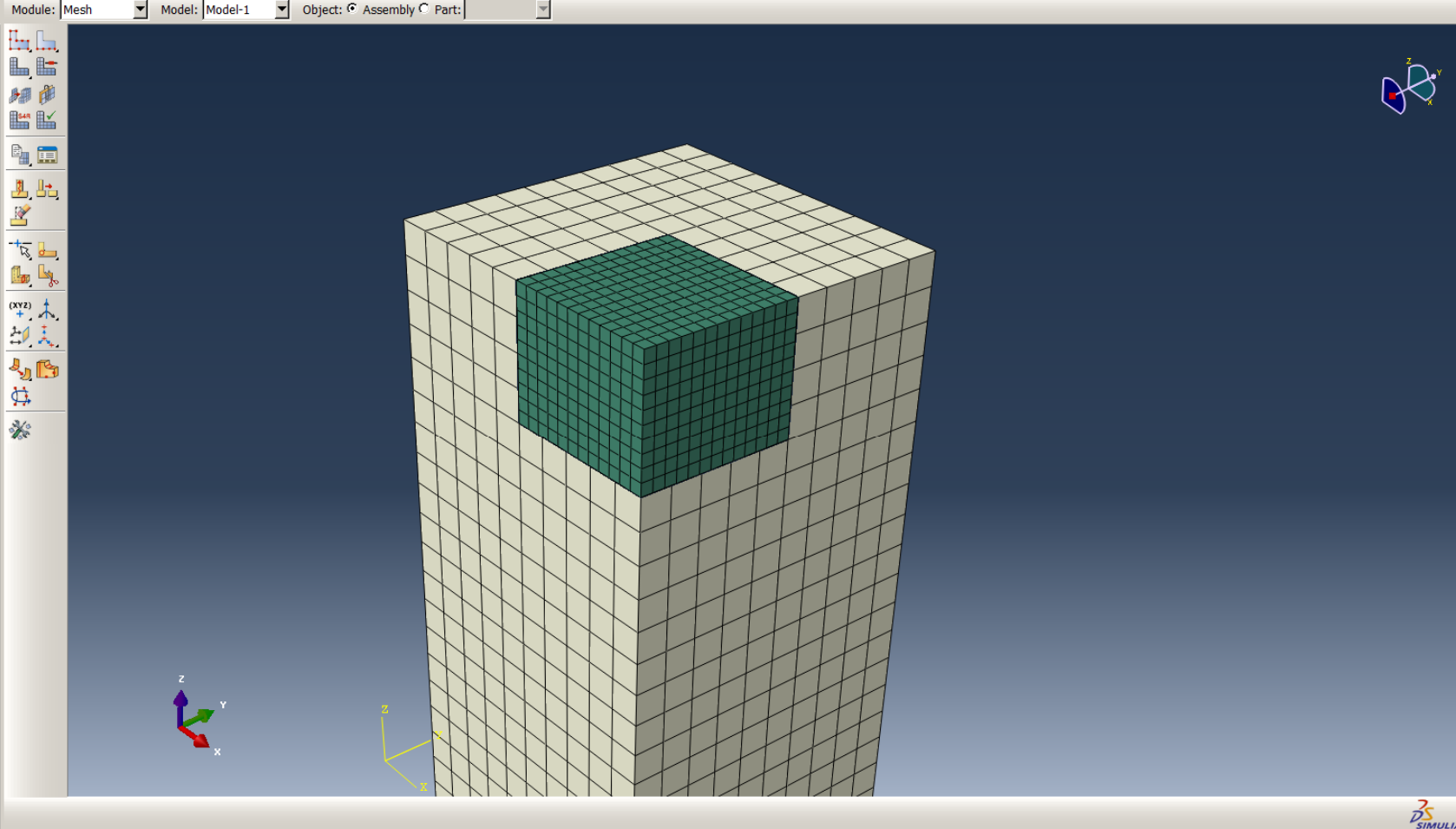
- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh
 - Terren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
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 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



Global seeds have been assigned.
1900 elements have been generated on part: Terren
Global seeds have been assigned.
Global seeds have been assigned.
1560 elements have been generated on part: Fundatia

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
- Annotations
- Analysis



Global seeds have been assigned.
1900 elements have been generated on part: Teren
Global seeds have been assigned.
Global seeds have been assigned.
1560 elements have been generated on part: Fundatia

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatia
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh
 - Teren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches
 - Annotations
 - Analysis

Module: Job Model: Model-1 Step: Step-1

Job Manager

Name	Model	Type	Status
------	-------	------	--------

Create... Edit... Copy... Rename... Delete... Dismiss

Create Job

Name: Fundatie

Source: Model

Model-1

Continue... Cancel

Global seeds have been assigned.
1900 elements have been generated on part: Teren
Global seeds have been assigned.
Global seeds have been assigned.
1560 elements have been generated on part: Fundatia

Model Database

- Models (1)
 - Model-1
 - Parts (2)
 - Fundatie
 - Features (1)
 - Solid extrude-1
 - Sets
 - Surfaces
 - Skins
 - Stringers
 - Section Assignments (1)
 - Orientations
 - Composite Layups
 - Engineering Features
 - Mesh
 - Terren
 - Materials (2)
 - Sections (2)
 - Profiles
 - Assembly
 - Steps (2)
 - Field Output Requests (1)
 - History Output Requests (1)
 - Time Points
 - ALE Adaptive Mesh Constraints
 - Interactions (1)
 - Interaction Properties (1)
 - Contact Controls
 - Contact Initializations
 - Constraints
 - Connector Sections
 - Fields
 - Amplitudes
 - Loads (1)
 - BCs (5)
 - Predefined Fields
 - Remeshing Rules
 - Sketches

- Annotations
- Analysis

Module: Job Model: Model-1 Step: Step-1

Job Manager

Name	Model	Type	Status
Fundatie	Model-1	Full Analysis	Completed

Create... Edit... Copy... Rename... Delete... Dismiss

Fundatie Monitor

Job: Fundatie Status: Completed

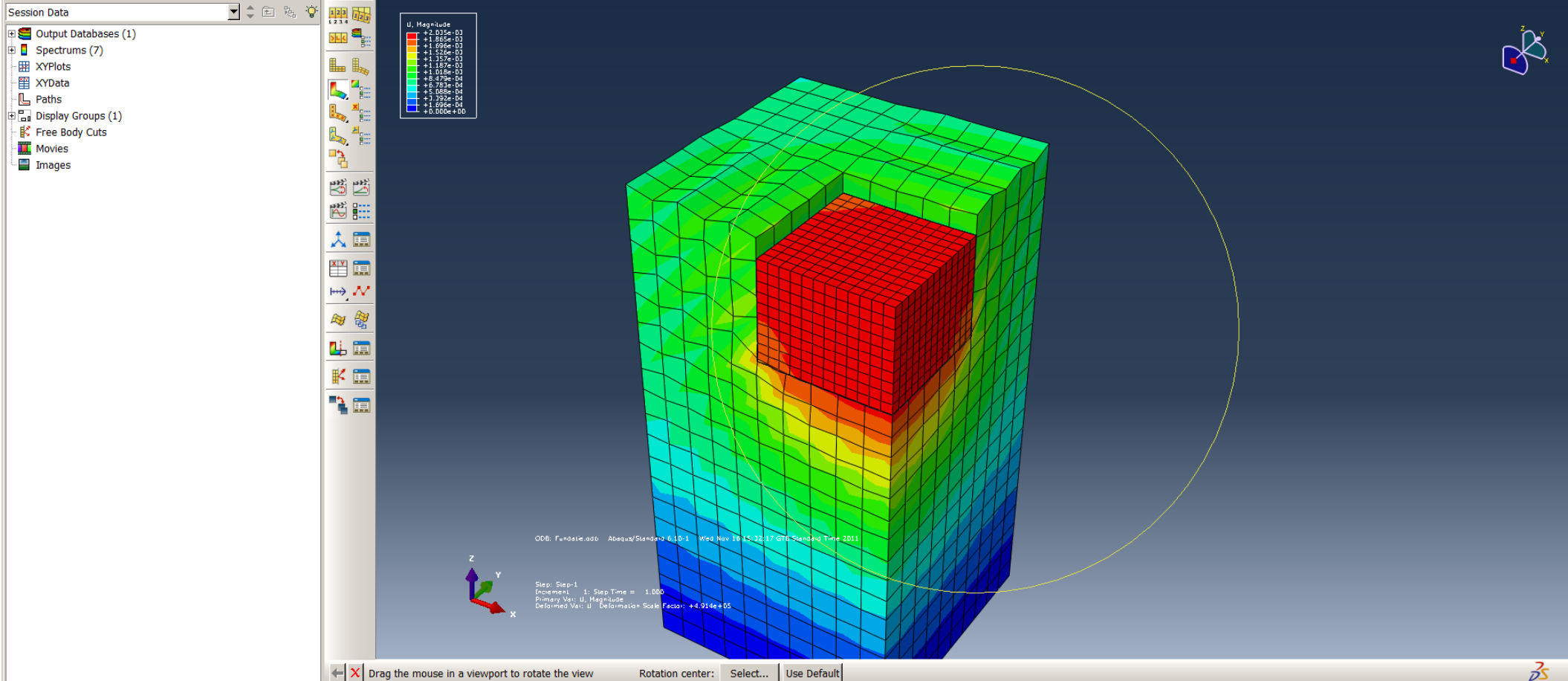
Step	Increment	Att	Severe Discon Iter	Equil Iter	Total Iter	Total Time/Freq	Step Time/LPF	Time/LPF Inc
1	1	1	0	1	1	1	1	1

Log Errors Warnings Output Data File Message File Status File

Submitted: Wed Nov 16 15:32:08 2011
Started: Analysis Input File Processor
Completed: Analysis Input File Processor
Started: Abaqus/Standard
Completed: Abaqus/Standard
Completed: Wed Nov 16 15:32:28 2011

Search Text
Text to find: ☐ Match case

The job "Fundatie" has been created.
The job input file "Fundatie.inp" has been submitted for analysis.
Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.



The job "Fundatie" has been created.
The job input file "Fundatie.inp" has been submitted for analysis.
Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.

ODB Display Options

General Entity Display Sweep/Extrude Mirror/Pattern

Mirror

Mirror CSYS: (Global)

Mirror planes: ☐ XY ☒ XZ ☐ YZ

☐ Mirror display bodies

Pattern

Pattern CSYS: (Global)

Rectangular

	Number	Offset
X:	1	0
Y:	1	0
Z:	1	0

Circular

Axis of rotation: Z

Number: 1

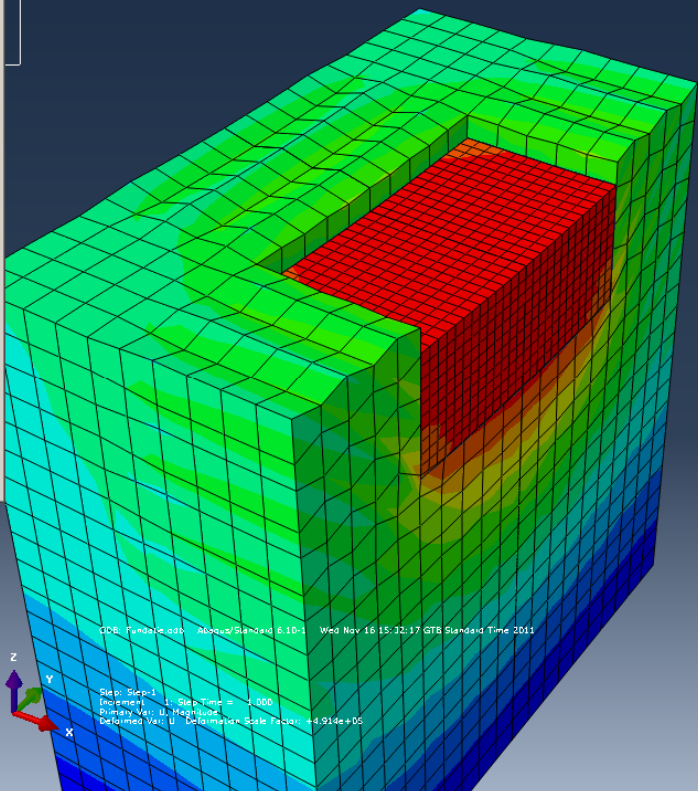
Total angle: 360

Order of Operations

Mirror, rectangular pattern, circular pattern

Note: Sweep and extrude operations, if any, will always be performed first.

OK Apply Defaults Cancel



ODB: Fundatie.odb Abaqus/Standard 6.10-1 Wed Mar 16 15:32:17 GMT Standard Time 2011

Step: Set=1, Step Time = 1.000
Increment: 10, Magnitude
Deformed View, U, Deformation Scale Factor: +4.914e+05

Drag the mouse in a viewport to rotate the view Rotation center: Select... Use Default

The job "Fundatie" has been created.
The job input file "Fundatie.inp" has been submitted for analysis.
Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.

Session Data

- Output Databases (1)
- Spectrums (7)
- XYPlots
- XYData
- Paths
- Display Groups (1)
- Free Body Cuts
- Movies
- Images

View Cut Manager

Show	Name	Model
<input checked="" type="checkbox"/>	X-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Y-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Z-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

Create... Edit... Copy... Rename... Delete... Options... Dismiss

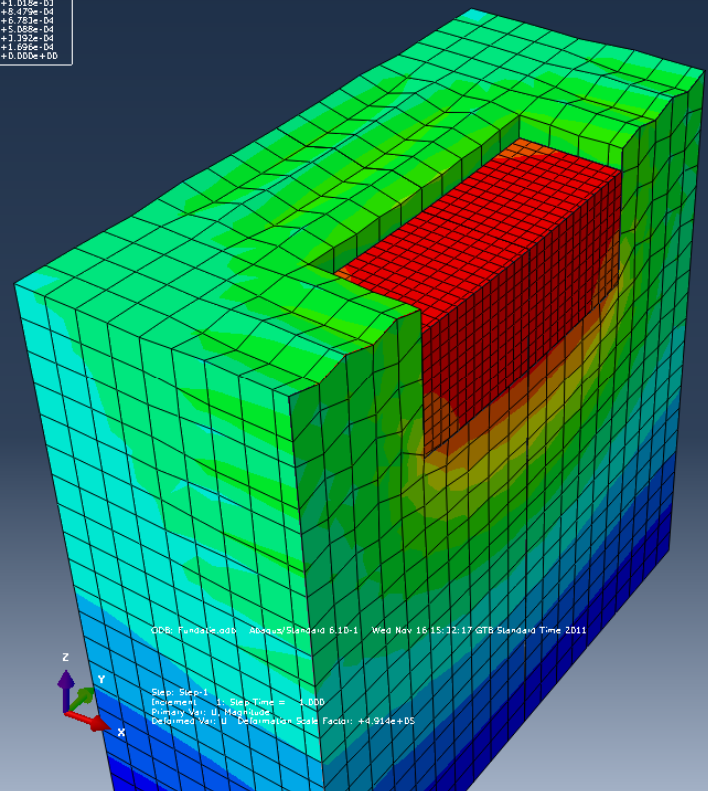
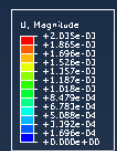
☐ Allow for multiple cuts

Motion of Selected Cut

Translate

Position: 5750 1500 6500

Sensitivity: 1 1500 6500



ODB: Fundatie.odb Abaqus/Standard 6.10-1 Wed Mar 16 11:32:17 GMT Standard Time 2011

Step: Step-1, Sub-Step = 1.000
Increment: 1, U, Magnitude
Deformed View, U, Deformation Scale Factor: +4.914e+05

Drag the mouse in a viewport to rotate the view Rotation center: Select... Use Default

The job "Fundatie" has been created.
The job input file "Fundatie.inp" has been submitted for analysis.
Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.

Session Data

- Output Databases (1)
- Spectrums (7)
- XYPlots
- XYData
- Paths
- Display Groups (1)
- Free Body Cuts
- Movies
- Images

View Cut Manager

Show	Name	Model
<input checked="" type="checkbox"/>	X-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Y-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Z-Plane	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>

Create... Edit... Copy... Rename... Delete... Options... Dismiss

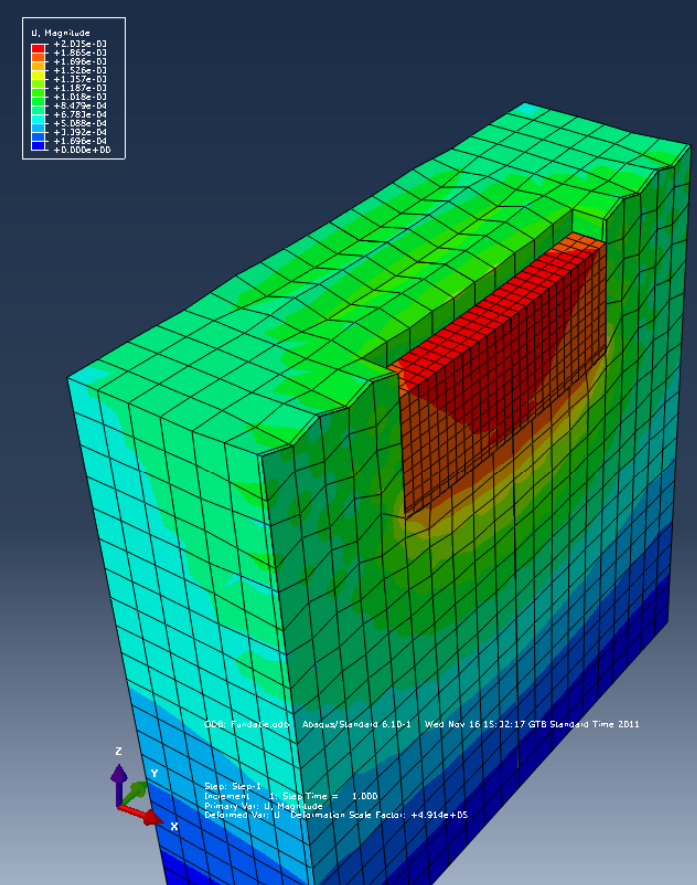
☐ Allow for multiple cuts

Motion of Selected Cut

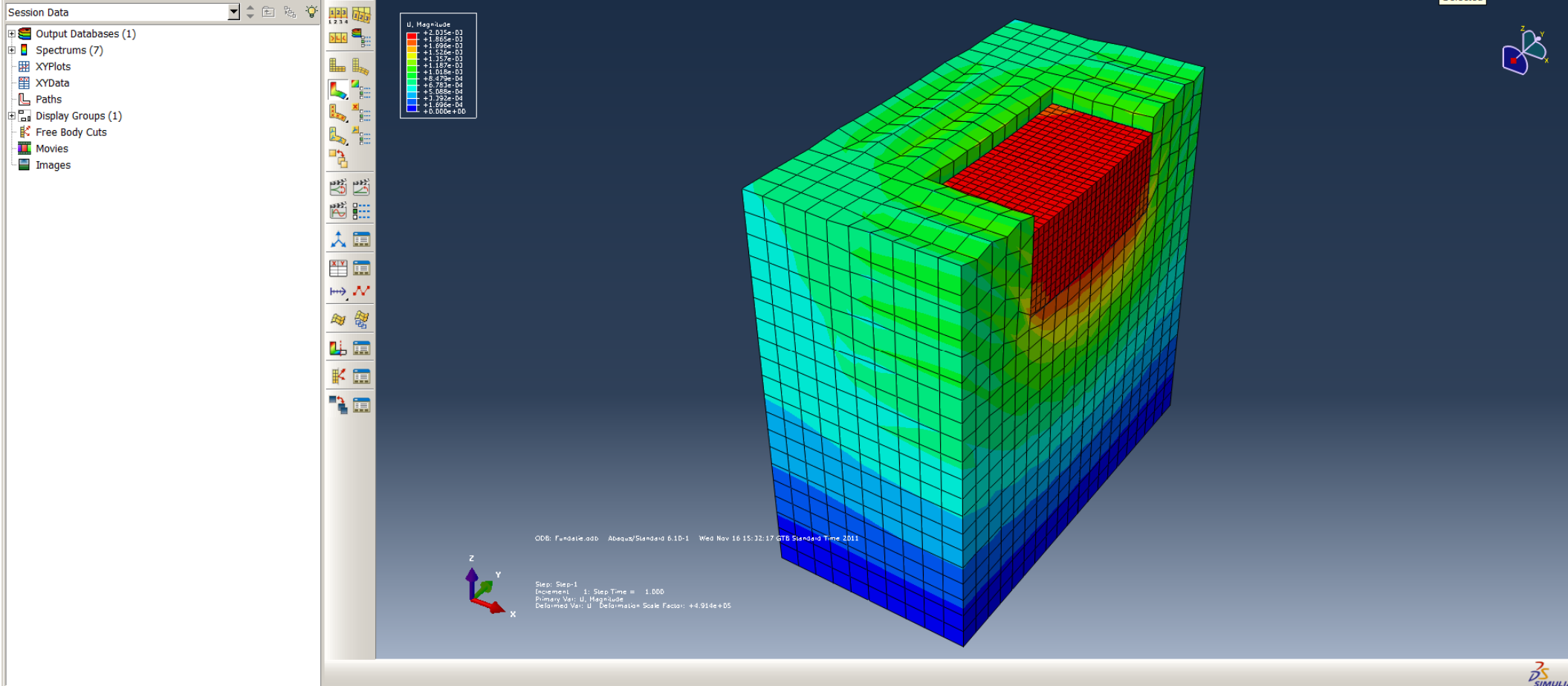
Translate

Position: 4600 1500 6500

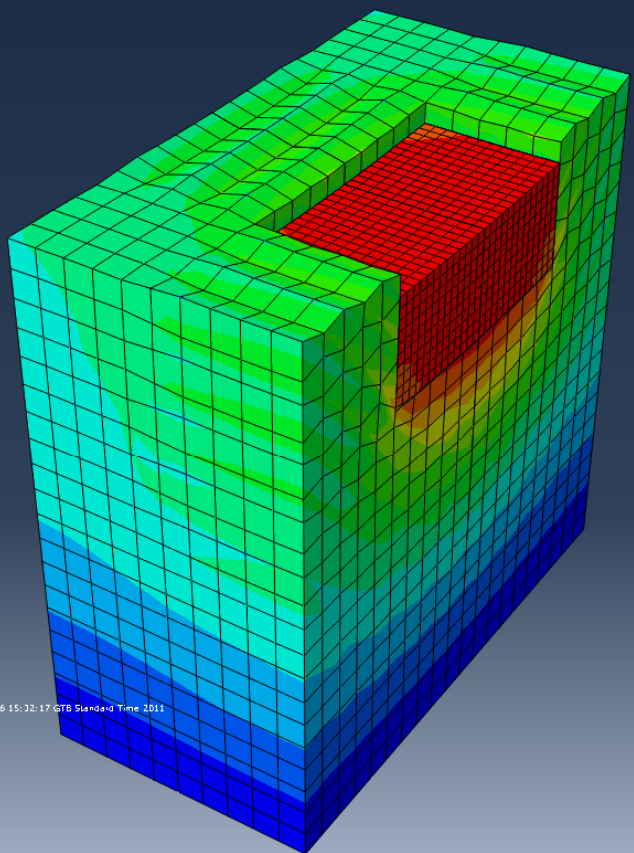
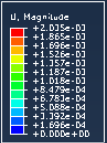
Sensitivity: 1 1500 6500



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Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.



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Job Fundatie: Analysis Input File Processor completed successfully.
Job Fundatie: Abaqus/Standard completed successfully.
Job Fundatie completed successfully.



ODB: Fundatie.odb Abaqus/Standard 6.10-1 Wed Nov 16 15:32:17 GMT Standard Time 2011

Step: Step-1
Increment: 1; Step Time = 1.000
Primary Var: U, Magnitude
Deformed Var: U, Deformation Scale Factor: +4.914e+05

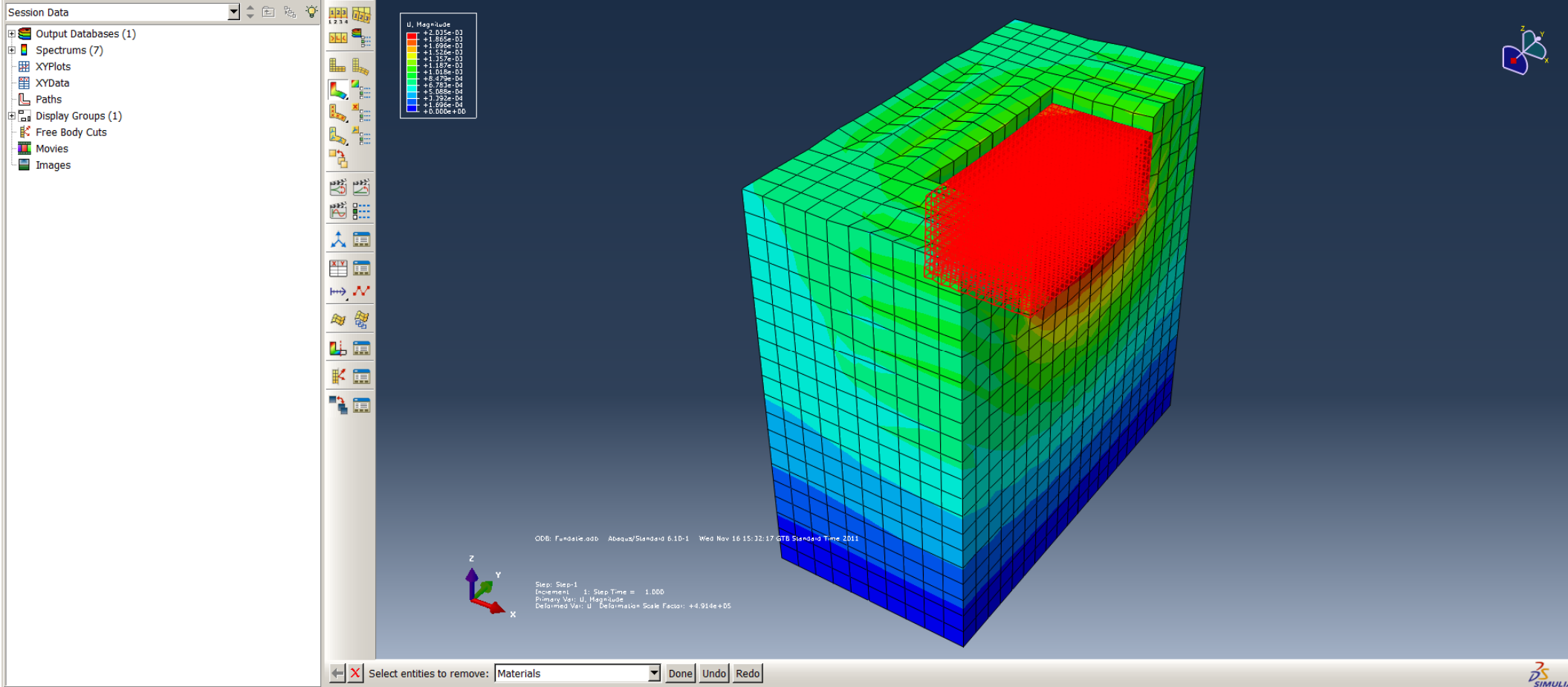


- Part instances
- Elements
- Element sets
- Sections
- Materials**
- Element types
- Nodes
- Node sets

Select entities to remove:

Done Undo Redo

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Job Fundatie completed successfully.