ANSYS Mechanical APDL. Utility Menu-> Select

Select



<u>Comments</u>

Selection is convenient to define components, preprocessing of a large FE model, and for results presentation.

Components (and assemblies) are defined to save time of preprocessing, solution and postprocessing. A component (or assembly) may be recalled instead of picking objects one by one (keypoints, lines, areas, volumes, nodes, elements). An assembly is made of components.

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Clear and start a new database

Utility Menu > File > Clear & Start New > Do not Read File > OK > CLEAR ... EXECUTED? > Yes

Create a block



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		2
Exe	rcise	Ζ.

Create a component

Utility Menu > Select > Comp/Assembly > Create Component ...

Specify a component (Cname= Supported Areas, Entity= Areas) \rightarrow OK (Fig. 8) (The two areas where we plan to apply constraints)

٨	Create Component		
[CM] Create Component Cname Component name Entity Component is made of	Fig. 8	Supported_Areas	↓
ок	Apply	Cancel Help	

Selection of an entire model

Utility Menu > Select > Everything Type APLOT in a Command Prompt, [] (Fig. 2)

Selection of a component

Utility Menu > Select > Comp/Assembly > Select Component ... (Fig. 9 and 10)

۸	Select Component or Assembly		
[CMSEL] Select Entit	ies belonging to Component o	Assembly	
Select component/a	ssembly		
		by component name	
	Fig. 9	○ by entity type	
OK	Apply	Cancel Help	
	V		
٨	Select Comp	onent or Assembly	

	Select Componen		
[CMSEL] Select Entities belonging	to Component or Asser	nbly	
Name Comp/Assemb to be select	ed	SUPPORTED_AREAS	-
	Fig. 10	SUPPORTED_AREAS	
Type Type of selection		From full set	
ок 🕅	Apply	Cancel Help	

Type APLOT in a Command Prompt, [] (Fig. 4)

<u>Comment</u>

You may also use a Component Menager: Utility Menu > Select > Component Menager ...

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