

CST-Pregen Model

This section describes the CST-Pregen model, which is used to create the pre-generation subprogram for a model. The pre-generation subprogram is invoked:

- During the generation phase after all maintenance subprograms have been executed
- Whenever the SAMPLE command is issued from the User Exit editor

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Introduction

After generating the maintenance subprograms, generate the pre-generation subprogram to assign #PDAC condition values based on user-supplied parameters or other calculated values. The pre-generation subprogram also assigns the values of #PDA variables in the model PDA that are required by any subsequent generation subprograms.

Generated using the CST-Pregen model, this subprogram is invoked after all maintenance subprograms are executed during the generation phase or when the SAMPLE command is issued from the User Exit editor. It is the first user subprogram invoked.

Note:

All #PDAC-prefixed condition values are reset before generation begins.

The pre-generation subprogram should also calculate the values of any #PDA variables required by subsequent generation subprograms.

For simple models that do not have code frames, this subprogram can also perform the functions of a generation subprogram. (Condition code values and derived fields can also be assigned within the maintenance subprograms.)

Note:

For an example of a generated pre-generation subprogram, refer to CUMNPR in the SYSCST library.

Parameters for the CST-Pregen Model

Use the CST-Pregen model to create the pre-generation subprogram. This model has one specification panel, Standard Parameters.

Standard Parameters Panel

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Module name	CXMNPR_	
Parameter data area	CXMNPDA_ *	
Title	Pre-generation subprogram	
Description	Pre-generate subprogram. _____ Set conditions and assign shared PDA variables. _____ _____	
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- help retn quit userX main		

The input fields on the Standard Parameters panel are:

Field	Description
Module name	Name specified on the Generation main menu. The name must be alphanumeric and no more than eight characters in length. Use the following naming convention: CXxxPR where <i>xx</i> uniquely identifies your model.
Parameter data area	Name of the parameter data area (PDA) for your model. Natural Construct determines the PDA name based on the Module name specified on the Generation main menu. For example, if you enter "CXMNPR", Natural Construct assumes the PDA name is CXMNPDA. Use the following naming convention: CXxxPDA where <i>xx</i> uniquely identifies your model.
Title	Title for the generated subprogram. The title identifies the subprogram for the List Generated Modules function on the Generation main menu and is used internally for program documentation.
Description	Brief description of the subprogram. The description is inserted in the banner at the beginning of the subprogram and is used internally for program documentation.

User Exits for the CST-Pregen Model

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User Exits	Exists	Sample	Required	Conditional

_ CHANGE-HISTORY		Subprogram		
_ PARAMETER-DATA				
_ LOCAL-DATA		Example		
_ ASSIGN-DERIVED-VALUES		Subprogram		
_ SET-CONDITION-CODES		Subprogram	X	X
_ GENERATE-CODE				
_ BEFORE-CHECK-ERROR		Example		
_ ADDITIONAL-INITIALIZATIONS		Example		
_ END-OF-PROGRAM				

For information about these user exits, see Supplied User Exits. For information about using the User Exit editor, see *User Exit Editor, Natural Construct Generation*.