Purpose

Command SETOPTIONS sets TECHNIQUEs, named OPTIONs or MODs for a
Function at run time.

The INCLUDE keyword allows the user to specify options that were saved
previously with the DEFINE OPTION command.

The MOD keyword allows the user to pass card images to make run time
modifications.

Format

$$\text{@SETOPTIONS} \quad \begin{bmatrix} \text{ALL}° \\ \text{funcname} \end{bmatrix}$$

$$\left\{ \text{techname} \begin{bmatrix} (Y°) \\ (N) \\ (int) \end{bmatrix} \left(\begin{bmatrix} S° \\ F \\ C \\ A \end{bmatrix} \{\text{identifiers}\} \right) \quad \{[\text{argname=}]\text{value}\} \right\}$$

        and/or

$$\left\{ \underline{\text{INCL}}\text{UDE optname} \right\}$$

        and/or

$$\left\{ \begin{array}{l} \text{MOD} \\ \{\text{modcards}\} \\ \underline{\text{END}}\text{MOD} \end{array} \right\}$$

Parameter Description

Parameter	Required/ Optional	Maximum Characters	Description
ALL°	O		Indicates that the following runtime change applies to ALL functions
funcname	O	8	Name of the function whose default values are to be changed at runtime 1/
techname	O	8	Name of the technique whose

Parameter	Required/ Optional	Maximum Characters	Description
			default is being overridden for this run 2/
(Y°) (N) (int)	O	1	Default for using the Technique: Y = YES = ON N = NO = OFF int = any integer The default must be enclosed in parenthesis and must follow the Technique name without a space between
S° F C A	O	1	Type of identifier: S = Segment (default) F = Forecast Group C = Carryover Group A = area 3/
identifiers	O	8	Alphanumeric identifier (must be enclosed in parentheses with the identifier type)
argname	O	8	Name of the argument being changed for the run 4/
value	R		Value for the argument being changed 4/ 5/
optname	R	8	Name of OPTION to be included that was previously stored using the DEFINE OPTION command
modcards	O		MOD cards

Notes:

1/ The Options are in effect until a CLEAR command is encountered or until the run terminates. Any errors due to inconsistencies (i.e. turning on a Technique that is not used by the given Function) will be flagged with a warning message and ignored.

2/ Each Technique must begin on a new card.

3/ Only Nonuniversal Techniques can have identifiers. Those Techniques that are applied universally over the entire forecast area cannot have identifiers.

4/ Argument values may be entered by position with commas between each value. For example to enter the third of three argument use ',,5'.

5/ The maximum number of characters allowed for the Argument value
    depends on the type of argument. Integer and real Arguments must
    be valid numbers; dates can be a maximum of 11 characters; and
    alphanumerics can be a maximum of 72 characters depending on the
    definition when the Technique was defined.

Examples

The following example shows that options are in effect in the order
received. Since the Option CORUN is included in the SETOPT command
after the SAVETDY Technique, the SAVETDY Technique will be off=N=NO
for Function FCEXEC.

    @DEFINEL OPTION NAME=CORUN
     SAVETDY(N)
     @SETOPTIONS FCEXEC
     SAVETDY(Y)
     INCLUDE CORUN
     @COMPUTE FCEXEC

The following example shows a more complicated SETOPTIONS command for
Function FCEXEC. The universally applied Technique PLOTHYD (plot
hydrograph) is set to one. Other Techniques turned on are FUTPRECP
and ONESEG for Segment ARKAN1. Two previously defined named Options
PRETEST and SETUP are included and data are entered through a MOD.
The ENDMOD card is necessary to signal HCL that there are no more card
images to be passed for the MOD.

    @SETOPT FCEXEC
     PLOTHYD(1)
     FUTPRECP(Y)
     ONESEG(Y) RUNID=ARKAN1
     INCLUDE PRETEST
     INCLUDE SETUP
     MOD
      card images
     ENDMOD