VI.5.2C-SETOPTIONS  PROGRAM FCST HCL COMMAND SETOPTIONS

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

```
@SETOPTIONS [ ALL° funcname ]

{ techname [ (Y°) (N) (int)] [ (SFCA) {identifiers} } { [argname=]value } ]

and/or

{ INCLUDE optname }

and/or

{ MOD {modcards} }

ENDMOD
```

Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required/Optional</th>
<th>Maximum Characters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL°</td>
<td>0</td>
<td></td>
<td>Indicates that the following runtime change applies to ALL functions</td>
</tr>
<tr>
<td>funcname</td>
<td>0</td>
<td>8</td>
<td>Name of the function whose default values are to be changed at runtime 1/</td>
</tr>
<tr>
<td>techname</td>
<td>0</td>
<td>8</td>
<td>Name of the technique whose</td>
</tr>
<tr>
<td>Parameter</td>
<td>Required/Optional</td>
<td>Maximum Characters</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>--------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>(Y°)</td>
<td>O</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>(N)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(int)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S°</td>
<td>O</td>
<td>1</td>
<td>Type of identifier: S = Segment (default), F = Forecast Group, C = Carryover Group, A = area.</td>
</tr>
<tr>
<td>identifiers</td>
<td>O</td>
<td>8</td>
<td>Alphanumeric identifier (must be enclosed in parentheses with the identifier type).</td>
</tr>
<tr>
<td>argname</td>
<td>O</td>
<td>8</td>
<td>Name of the argument being changed for the run.</td>
</tr>
<tr>
<td>value</td>
<td>R</td>
<td></td>
<td>Value for the argument being changed.</td>
</tr>
<tr>
<td>optname</td>
<td>R</td>
<td>8</td>
<td>Name of OPTION to be included that was previously stored using the DEFINE OPTION command.</td>
</tr>
<tr>
<td>modcards</td>
<td>O</td>
<td>MOD cards</td>
<td></td>
</tr>
</tbody>
</table>

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'.
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 alphanumericics 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.

```plaintext
@DEFINE 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.

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