

IX.4.0B-HCLDEFIN HYDROLOGIC COMMAND LANGUAGE FILE HCLDEFIN

Purpose

File HCLDEFIN contains the Hydrologic Command Language Procedure, Function, Technique and Named Options definition records and the associated default records.

The Global HCLDEFIN file has no named Option records.

Description

ATTRIBUTES: fixed length 64 byte binary records

RECORD STRUCTURE:

<u>Variable</u>	<u>Type</u>	<u>Dimension</u>	<u>Word Position</u>	<u>Description</u>
The first record contains the following file control information:				
INUSE	I*4	1	1	File status: 0 = not being used 1 = file being updated
GLFLAG	I*4	1	2	Global/Local file indicator: -1 = Global 1 = Local
FILTYP	A4	1	3	'DEFN' (file type)
LRECL	I*4	1	4	Logical record length in words
PASS	A4	1	5	Password (Global and Local)
MAXREC	I*4	1	6	Maximum number of records
LASTRC	I*4	1	7	Last record used
MAXARG	I*4	1	8	Maximum number of Arguments
NUMARG	I*4	1	9	Actual number of Arguments
NUMGFN	I*4	1	10	Number of Global Functions
NUMLGN	I*4	1	11	Number of Local Functions
MAXLDF	I*4	1	12	Maximum Local defaults
NUMLDF	I*4	1	13	Last Local default record used

Function record:

<u>Variable</u>	<u>Type</u>	<u>Dimension</u>	<u>Word Position</u>	<u>Description</u>
FLEN	I*4	1	1	Number of records in Function definitions
FNUM	I*4	1	2	Function number (the value of nnn in FUNnnn).
FTYPE	I*4	1	3	Type of definition: -2 = Global 2 = Local
FNAME	A8	1	4-5	Function name
FPASS	A4	1	6	Password
FDREC	I*4	2	7-8	Record numbers of default records
FNTECH	I*4	1	9	Number of Techniques
FTECHS	I*4	FNTECH	10-?	Technique numbers: >0 = Local <0 = Global

Procedure Record:

PLEN	I*4	1	1	Number of records in Procedure definition
PNUM	I*4	1	2	Procedure number
PTYPE	I*4	1	3	Type of definition: -1 = Global 1 = Local
PNAME	A8	1	4-5	Procedure name
PPASS	A4	1	6	Password
PDFRCD	I*4	2	7-8	Record number of Local and Global default records
PNPARM	I*4	1	9	Number of parameters
PPARNM	A8	1	10-11	Parameter name
PNCMD	I*4	1	12	Number of commands in procedure
NWDS	I*4	1	13	Number of words in command
PCOMND	A	?	14+	Command with blanks removed

<u>Variable</u>	<u>Type</u>	<u>Dimension</u>	<u>Word Position</u>	<u>Description</u>
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Variables NWDS and PCOMND are repeated PNCMD times.

Technique record:

TLEN	I*4	1	1	Number of records in Technique definition
TNUM	I*4	1	2	Technique number
TTYPE	I*4	1	3	Type of definition: -3 = Global 3 = Local
TNAME	A8	1	4-5	Technique name
TPASS	A4	1	6	Password
TUFLAG	I*4	1	7	Indicator if Technique is Universal: 0 = no 1 = yes
TDREC	I*4	1	8-9	Record numbers of Local and Global default records
TNARG	I*4	1	10	Number of Arguments in Technique
TARGNM	A8	1	10-12	Argument name
TARGTP	I*4	1	13	Argument type; if type is 'A' then number is negative and is maximum number of characters
TARGPT	I*4	1	14	Pointer to IARG array

Variables TARGNM, TARGTP and TARGPT are repeated TNARG times.

Named Option definition record:

NOLEN	I*4	1	1	Number of records in definition
NONUM	I*4	1	2	Internal Named Option number
NOTYPE	I*4	1	3	'4' (record type)
NONAME	A8	1	4-5	Named Option name
NOPASS	A4	1	6	Password
NOWRDS	I*4	1	7	Length of option

<u>Variable</u>	<u>Type</u>	<u>Dimension</u>	<u>Word Position</u>	<u>Description</u>
				>0 = number of words in option 0 = end of option <0 = include number
NOKIND	I*4	1	8	Technique number: <0 = Global 0 = MOD follows >0 = Local
Technique definition records:				
NOTVAL	I*4	1	9	Value of Technique: 0 = off 1 = on other = integer value
NONIDS	I*4	1	10	Number of identifier sets
NOIDT	I*4	1	11	Type of identifier: A = area C = Carryover Group F = Forecast Group S = Segment
NOIDK	I*4	1	12	Processing code: 1 = process a range of IDs >1 = process NONIDS-1 identifiers -1 = process all but ID's n range <-1 = process all but NONIDS- 1 identifiers
NOIDS	A8	?	13+	Identifiers
NORFLG	I*4	1	?	If NOIDK=1 then used as on/off flag
Variables NOIDT, NOIDK, NOIDS and NORFLG are repeated NONIDS times.				
NONARG	I*4	1	?	Number of arguments
NOARGP	I*4	1	?	Internal Argument number: >0 = Global <0 = Local
NOARLN	I*4	1	?	Length of argument value in words
NOARGT	I*4	?	?	Argument value

<u>Variable</u>	<u>Type</u>	<u>Dimension</u>	<u>Word Position</u>	<u>Description</u>
MOD definition records:				
NONIDS	I*4	1	10	Number of identifier sets
NOIDT	I*4	1	11	Type of identifier: A = area C = Carryover Group F = Forecast Group S = Segment
NOIDK	I*4	1	12	Processing code: 1 = process a range of IDs >1 = process NONIDS-1 identifiers -1 = process all but ID's n range <-1 = process all but NONIDS- 1 identifiers
NOIDS	A8	?	13+	Identifiers
NONMCD	I*4	1	?	Number of MOD cards to follow
NOLST	I*4	1	?	Length of string (with blanks removed)
NOMCDS	A	?	?	MOD cards