VI.3.5-DEFSEG-ANALYSIS PROGRAM ESPINIT COMMAND DEFSEG SUBCOMMAND ANALYSIS

Purpose

Command DEFSEG subcommand ANALYSIS defines output variables and displays for analysis in an ESP Segment.

Input Summary

Card	Format	Columns	Contents
1		1-8	'ANALYSIS'
2	A4	1-4	Output variable type:
			'MXMD' = maximum mean daily value and days to maximum mean daily value
			'MNMD' = minimum mean daily value and days to minimum mean daily value
			'MD ' = mean daily value
			'SUM ' = cumulative value
			'MXIN' = maximum instantaneous value and days to maximum instantaneous value
			'MNIN' = minimum instantaneous value and days to minimum instantaneous value
			'NDTO' = if IOPT=1 number of days until time series gets above VALUE if IOPT=2 number of days until time series gets below VALUE
			'NDIS' = if IOPT=1 number of days time series is greater than VALUE if IOPT=2 number of days time series is less than VALUE
	6X,A8	11-18	Output variable identifier
	2X,I5	21-25	Number of time series (maximum 2)

Card	l Format	Columns	Contents
	15	26-30	Number of displays
	A20	31-50	Heading information
The	following	are needed	for output variable types NDTO and NDIS.
	15	51-55	Output variable option (IOPT):
			For output variable type NDTO: IOPT=1 number days until a time series gets above VALUE IOPT=2 number of days until a time series gets below VALUE
			For output variable type NDIS: IOPT=1 number of days a time series is greater than VALUE IOPT=2 number of days a time series is less than VALUE
	F10.0	56-65	Value (must be entered in standard metric units)
3	A8	1-8	Time series identifier
	3X,A4	12-15	Time series data type code
	3X,I2	19-20	Time series data time interval
	1X,A4	22-25	Time series type indicator: 'OBS ' = observed 'SIM ' = simulated
	2X,A8	28-35	Time series value name (used only for time series that have more than one value per data time interval):
			Data Type Order Name ROCL 1 'TCHANINF< 2 'IMP-RO< 3 'DIR-RO< 4 'SUR-RO< 5 'INTERFLO< 6 'SUPBASE< 7 'PRIMBASE< SMZC 1 'UZTDEF< 2 'UZEWO(
			2 UZFWC< 3 'LZTDEF< 4 'LZFSC< 5 'LZFPC<

Repeat card type 3 for each time series (maximum 2).

A8 1-9 Display type:

'FREQUENCY' = print frequency table and plot = print summary table 'SUMMARY' If display type is 'SUMMARY' no additional input is needed. If display type is 'FREQUENCY' then cards 5-7 are needed. Indicator for input of exceedance 5 1-5 Ι5 probability values: 0 = default; use 0.90, 0.50 and 0.10 1 = read exceedance probability values Number of exceedance probability values Ι5 6-10 selected by user (needed if column 5 is 1) Ι5 11-15 Type of distribution desired (the empirical distribution is the only valid option for output variable types NDTO and NDIS): 1 = empirical only (frequency values are calculated using $p=^{m}/(n+1)$ where p=probability, m=rank and n =number of values) 2 = log-normal (data are fit to a log-normal distribution) 3 = normal (data are fit to a normal distribution) Ι5 16-20 Plot indicator: 0 = no plot1 = plot21-25 Ι5 Indicator for including output variable in run summary: 0 = do not include1 = includeCard 6 is needed when column 5 on card 5 is 1. б 10F5.2 1-50 Frequency values Repeat cared 6 if more than 10 frequency values. Card 7 is needed when column 20 on card 5 is 1. 7 Т5 1-5 Indicator for including sample points on plot: 0 = do not include 1 = includeIndicators to include time series type on plot (only those time series available

	Card	Format	Columns	Contents
--	------	--------	---------	----------

	will 0 = 1 =	be included): do not include include	
I5 6-	-10 Histo	orical simulated time series	
I5 11·	-15 Adjus	ted simulated time series	
I5 16·	-20 Condi	tional simulated time series	3
I5 21·	-25 Obser	ved time series	
I5 26·	-30 Base	period observed time se	
Repeat cards 2 thru	ı 7 for each	n output variable type.	
Last 1.	-3 'END'		