

IX.3.0B-SYSTEM-HDATEA SUBROUTINE HDATEA

Description

Subroutine HDATEA unpacks a Hydrologic Command Language [[Hyperlink](#)] date field and calls routine HDATEC [[Hyperlink](#)] to decode the date field.

Calling Sequence

CALL HDATEA (a,b,c,f,g,h,i,j,k,l)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
a	Input	I*4	1	Number of characters in array b
b	Input	R*4	*	Array containing date
c	Input	I*4	1	Indicator whether array b is packed or unpacked: 0 = array b unpacked (1 character per word) 1 = array b packed (4 characters per word)
d	Input	I*4	1	Starting location in array IBUF for the date
e	Input	I*4	1	Ending location in array IBUF for the date
f	Input	I*4	1	Number of hours to add to the internal hour (j) and Julian hour (k) if no hour is input in array b <u>1</u> /
g	Input	I*4	1	Indicator whether the internal hour (j) should be within the range 00 to 23 or 01 to 24: 0 = range 00 to 23 1 = range 01 to 24
h	Input	I*4	1	Indicator whether or not to print a message if the date decoded is invalid: 0 = do not print message 1 = print message and call subroutine WARN

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
i	Output	I*4	1	Julian day
j	Output	I*4	1	Internal hour for Julian day
k	Output	I*4	1	Julian hour
l	Output	I*4	1	Status code: 0 = normal return 1 = invalid date field <u>2</u> / 2 = one of the arguments c, d, e, f, or g was not within valid range; a warning message is printed and routine WARN is called and a date is returned

Notes:

1/ The Julian day and internal hour and the Julian hour (arguments i, j, and k) can be related by the following equation:

$$k = (i-1)*24 + j$$

2/ Arguments i, j and k are set to zero.