

IX.3.0B-SYSTEM-UFIELD SUBROUTINE UFIELD

Description

Subroutine UFIELD reads an input field using free format (separated by a comma or blank). Character fields with embedded blanks or commas are enclosed in quotes.

Subroutine UFLDST [[Hyperlink](#)] can be used to print the error messages for subroutine UFIELD.

Subroutine UPRFLD [[Hyperlink](#)] can be used to print the values of all arguments in the call to subroutine UFIELD.

Calling Sequence

CALL UFIELD (NFLD, ISTRT, LENGTH, ITYPE, NREP, INTEGR, REAL, LCHAR, CHAR, LPAR, LRPAR, LASK, LATSGN, LAMPS, LEQUAL, ISTAT)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
NFLD	Both	I*4	1	If input: 0 = read card <u>1</u> / If output: >0 = number of field on card -1 = end of input (ISTAT also set to 3)
ISTRT	Both	I*4	1	If input: >0 = process next field 0 = first time UFIELD called <u>1</u> / -1 = reprocess current field -2 = do not read new card after last field processed -3 = read next card only if '&' found If output: >0 = starting location of field on card -2 = no more non-comment input found - new card not read (will only be this value when ISTRT=-2 on input)
LENGTH	Output	I*4	1	Length of field
ITYPE	Output	I*4	1	Field type: 0 = integer 1 = real

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
				2 = character
NREP	Output	I*4	1	Repeat factor: <u>2</u> / -1 = no repeat factor found
INTEGR	Output	I*4	1	Value of field as integer (filled if ITYPE is 0)
REAL	Output	I*4	1	Value of field as real (filled if ITYPE is 0 or 1)
LCHAR	Input	I*4	1	Number of words in variable CHAR
CHAR	Output	A4	LCHAR	Value of field as character (filled if ITYPE is 0, 1, or 2 and without n* if repeat factor used)
LLPAR	Output	I*4	1	Location in field of left parenthesis
LRPAR	Output	I*4	1	Location in field of right parenthesis
LASK	Output	I*4	1	Location on card of asterisk (*) found in field
LATSGN	Output	I*4	1	Location in field of at sign (@)
LAMPS	Output	I*4	1	Location in field of ampersand (&)
LEQUAL	Output	I*4	1	Location in field of equal sign (=)
ISTAT	Output	I*4	1	Return code: 0 = no errors 1 = null field 2 = not enough room in array CHAR to pack LENGTH characters 3 = end of card input (NFLD also set to -1) 4 = invalid value for repeat factor 5 = valid date field found (set only if ICKDAT in common UFREEX is set to 1) 6 = ending quote not found for character string 7 = non-comment characters

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
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found after last column to
be processed

Notes:

- 1/ The first time UFIELD is called NFLD and ISTRT must be set to 0.
- 2/ Repeat factor are specified as 'n*value' where n is the number of times the value is to be repeated.