

ADAS Subroutine xxhkey

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SUBROUTINE XXHKEY( CTEXT , CKEY , CBREAK , CANS )
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C  
C ***** FORTRAN77 SUBROUTINE: XXHKEY *****  
C  
C PURPOSE: TO EXTRACT FROM A LINE OF TEXT 'CTEXT' A RESPONSE TO A KEY  
C           IN THEIR FORM OF '<CKEY> = <CANS>'.  
C  
C CALLING PROGRAM: GENERAL USE  
C  
C SUBROUTINE:  
C  
C INPUT : (C*(*)) CTEXT = INPUT TEXT LINE CONTAINING KEY & RESPONSES  
C INPUT : (C*(*)) CKEY  = KEY TEXT  
C INPUT : (C*1 ) CBREAK = KEY/RESPONSE PAIR SEPERATOR SYMBOL  
C  
C OUTPUT: (C*(*)) CANS  = RERSPONSE FOR GIVEN KEY: BLANK IF NOT FOUND  
C  
C           (I*4) LENTXT = LENGTH IN BYTES OF 'CTEXT' STRING  
C           (I*4) LENKEY = LENGTH IN BYTES OF 'CKEY' STRING  
C           (I*4) LENANS = LENGTH IN BYTES OF 'CANS' STRING  
C           (I*4) IKEY  = LENGTH IN BYTES OF 'CKEY' IGNORING TRAILING  
C                       BLANKS  
C           (I*4) IPOS1 = USED IN IDENTIFYING RELEVANT BYTES IN CTEXT  
C           (I*4) IPOS2 = USED IN IDENTIFYING RELEVANT BYTES IN CTEXT  
C           (I*4) IPOS3 = USED IN IDENTIFYING RELEVANT BYTES IN CTEXT  
C           (I*4) I     = GENERAL USE INDEX  
C  
C ROUTINES: NONE  
C  
C NOTES: THIS ROUTINE EXTRACTS FROM 'CTEXT' A RESPONSE TO A GIVEN KEY  
C         IN THEIR FORM OF '<CKEY> = <CANS>'. E.G. 'FILE = DSN001'  
C         WOULD REQUIRE AS INPUT CKEY='FILE' AND WOULD GIVE AS OUTPUT  
C         CANS='DSN001'. ALL KEY/RESPONSE PAIRS MUST BE SEPARATED BY  
C         THE CHARACTER GIVEN BY 'CBREAK' E.G. A SLASH, AND EACH KEY  
C         MUST BE FOLLOWED BY AN EQUALS SIGN. THE NUMBER OF SPACES  
C         BETWEEN THE KEY AND THE EQUAL SIGN AND BETWEEN THE RESPONSE  
C         AND THE EQUAL SIGN IS NOT IMPORTANT.  
C  
C         THE BYTE PRECEEDING THE KEY MUST BE A BLANK OR 'CBREAK'  
C         CHARACTER UNLESS IT STARTS AT BYTE ONE IN 'CTEXT'.  
C  
C         IF A KEY DOES NOT EXIST IN 'CTEXT' THEN 'CANS' IS RETURNED  
C         BLANK.  
C  
C         THE KEY IS TAKEN AS 'CKEY' REMOVING ANY TRAILING BLANKS.  
C         LEADING BLANKS ARE LEFT IN PLACE AND WILL USED WHEN THE  
C         THE SEARCH FOR THE KEY IS MADE:  
C  
C         I.E. 'DATA ' AND 'DATA' ARE THE SAME KEY BUT  
C         ' DATA ' AND 'DATA ' ARE DIFFERENT KEYS ALTHOUGH  
C         BOTH WILL GIVE THE SAME RESULTS IF A SPACE EXISTS
```

C BEFORE 'DATA' IN THE INPUT TEXT LINE.
C
C AN EXAMPLE OF AN INPUT TEXT LINE IS:
C
C 8524.0 A 5 7 /FILMEM = FBBH91BE/ CODE= V2B DLN1 /
C
C THIS WOULD GIVE THE FOLLOWING:
C
C CKEY='FILMEM' => CANS='FBBH91BE'
C CKEY=' FILMEM' => CANS=' '
C CKEY='CODE' => CANS='V2B DLN1'
C CKEY=' CODE' => CANS='V2B DLN1'
C CKEY='OTHER' => CANS=' '

C (IF THE CHARACTER STRING IS SHORTER THAN THE RESPONSE THEN
C THE RESPONSE IS TRUNCATED ACCORDINGLY.)
C

C SPACES CAN EXIST IN THE KEY. I.E. CKEY='PLOT A'. BUT CARE
C SHOULD BE TAKEN WHEN USING PREFIXES ON A COMMON KEY BASE,
C I.E. 'A PLOT', 'B PLOT'. THIS IS BECAUSE IF A SUBSEQUENT
C KEY TO BE FOUND IS 'PLOT' THEN EITHER OF THESE SATISFY
C THIS CRITERION AS WELL AS 'PLOT' ITSELF.
C

C AN EXAMPLE OF AN INPUT TEXT LINE IS:
C
C A FILE=TEST0/B FILE = TEST1/FILE=TEST2/FILE 1=TEST3/FILE 2=/
C
C THIS WOULD GIVE THE FOLLOWING:
C
C CKEY='A FILE' => CANS='TEST0'
C CKEY='B FILE' => CANS='TEST1'
C CKEY='FILE' => CANS='TEST0' (WRONG RESPONSE PICKED UP)
C CKEY='FILE 1' => CANS='TEST3'
C CKEY='FILE 2' => CANS='TEST4'

C IT IS ALSO POSSIBLE TO IMBED RESPONSES

C AN EXAMPLE OF AN INPUT TEXT LINE IS:
C
C FILE 1 = Z1 = 23 / FILE = FILE 1 = 6 /
C
C THIS WOULD GIVE THE FOLLOWING:
C
C CKEY='FILE 1' => CANS='Z1 = 23'
C CKEY=' FILE 1' => CANS='6'
C CKEY='Z1' => CANS='23'
C CKEY='FILE' => CANS='FILE 1 = 6'

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C

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C MODIFIED : H P Summers

C - Increased robustness for single letter keys occurring
C elsewhere at non-key positions in strings.

C

C-----

CHARACTER* (*)	CANS	
CHARACTER	CBREAK	
CHARACTER* (*)	CKEY,	CTEXT