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0000000001111111111122222222223333333333334444444444555555555566666666667777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
TITLE 'IFMTFILL - ENSURE ALL CHARACTERS FILLED ON INPUT'
* *****
* *****
* THIS PROGRAM IS COPYRIGHTED BY: MR. JAY MOSELEY, CCP
* 200 HEYWOOD AVE 1503
* SPARTANBURG, SC 29307-1792
* NO USE MAY BE MADE OF THE DESIGN, CODING STRUCTURE, OR ANY PART
* THEREOF WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE AUTHOR IN
* ADVANCE. (1996, 1997, 1998, 1999, 2000)
* *****
* *****
* I IIII FFFFFFFF M M TTTTTTTTT FFFFFFFF I IIII LL LL
* II FF MM MM TT FF II LL LL
* II FF MMM MMM TT FF II LL LL
* II FFFFF MMMMMMM TT FFFFF II LL LL
* II FF MM M MM TT FF II LL LL
* II FF MM MM TT FF II LL LL
* II FF MM MM TT FF II LL LL
* I IIII FF MM MM TT FF I IIII LLLLLLLL LLLLLLLL
* *****
* THIS SUBROUTINE SCANS AN INPUT FIELD (DISPLAY FORMAT) TO VERIFY
* THAT ALL CHARACTERS ARE FILLED (NO LEADING, TRAILING, OR EMBEDDED
* BLANKS).
* NONE OF THE INITIALIZED VARIABLES ARE CHANGED DURING THE ROUTINE'S
* EXECUTION AND THERE ARE NO INTERNAL DATA FIELDS. ALL MANIPULATION
* IS DONE THROUGH REGISTERS. THE ROUTINE IS COMPLETELY REENTRANT.
* TWO FIELDS ARE PASSED AS PARAMETERS TO THE ROUTINE:
* 1. A FIELD OF VARYING LENGTH CONTAINING THE INPUT DATA, AND
* 2. A 2 BYTE FIELD (IN BINARY FORMAT) CONTAINING THE LENGTH OF
* THE FIRST FIELD PASSED.
* SUGGESTED CALLING SYNTAX FOR ALC CALLERS:
* CALL IFMTFILL, (INFIELD, INLENGTH)
* INFIELD DS CL12'ABCDEF-12345'
* INLENGTH DS H'12'
* SUGGESTED CALLING SYNTAX FOR COBOL CALLERS:
* 01 INPUT-FIELD PIC X(12) VALUE 'ABCDEF-12345'.
* 01 INPUT-FIELD-LENGTH PIC S9(4) COMP VALUE 12.
* CALL 'IFMTFILL' USING INPUT FIELD, INPUT-FIELD-LENGTH.
* POSSIBLE RETURN CODE VALUES:
* 0 - NO BLANK CHARACTERS FOUND WITHIN FIELD
* 8 - BLANK CHARACTER(S) FOUND WITHIN FIELD
* *****
* *****
IFMTFILL EJECT
CSECT
PRINT NOGEN
EYEC 'VERIFY INPUT FIELD IS FILLED'
SAVE (14,12) SAVE CALLER'S REGISTERS
BALR BASE,0 ESTABLISH BASE REGISTER
USING *,BASE ASSUME BASE REGISTER
LM INREG,LGTHREG,0(R1) LOAD ADDRESSES OF PARAMETERS

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00000000011111111111222222222233333333333344444444445555555555666666666677777777778	12345678901234567890123456789012345678901234567890123456789012345678901234567890		
*	SR	R15,R15	ASSUME RETURN CODE OF ZERO
*	LH	LGTHREG,0(,LGTHREG)	GET LENGTH OF INPUT FIELD
	LTR	LGTHREG,LGTHREG	IS INPUT FIELD LENGTH ZERO?
*	BZ	RETURN	IF YES, RETURN TO CALLER
	BCTR	LGTHREG,0	DECREASE BY 1 FOR EXECUTE
	EX	LGTHREG,FINDBL	SCAN FOR BLANK
	BZ	RETURN	IF NO BLANKS FOUND
*	IF ANY BLANKS WERE FOUND, RETURN CODE IS SET TO "8"		
*			
ERROR	LA	R15,8	RETURN CODE OF 8
*	RETURN TO CALLING PROGRAM WITH RETURN CODE IN REGISTER 15		
*			
RETURN	RETURN	(14,12),RC=(15)	
*	TRT PERFORMED VIA EXECUTE WITH FIELD LENGTH MODIFIER		
*			
FINDBL	TRT	0(0,INREG),TABLEBL	SCAN FOR BLANK CHARACTER
*			
*	*****CONSTANTS*****		
*			
TABLEBL	DC	64X'00'	
	DC	X'01'	
	DC	191X'00'	
	LTORG		
	EJECT		
*	*****EQUATES*****		
*			
*			
R0	EQU	0	REGISTER 0
R1	EQU	1	REGISTER 1
R2	EQU	2	REGISTER 2
R3	EQU	3	REGISTER 3
R4	EQU	4	REGISTER 4
INREG	EQU	5	INPUT FIELD
LGTHREG	EQU	6	INPUT FIELD LENGTH
R7	EQU	7	REGISTER 7
R8	EQU	8	REGISTER 8
R9	EQU	9	REGISTER 9
R10	EQU	10	REGISTER 10
R11	EQU	11	REGISTER 11
BASE	EQU	12	BASE REGISTER
R13	EQU	13	REGISTER 13
R14	EQU	14	REGISTER 14
R15	EQU	15	REGISTER 15
	END		