ENCODEDKU

ENCODE PACKAGE PDP-15 KLAUS APPEL 1970

		1970
LANGUAGE:		
MACRO-:	15,	
	FORMAT CONVERSION FROM IN	TERNAL BINARY REPRESENTATION
	IT-ASCII-REPRENSENTATION	
USAGEI	I MOUIIMEL READERTRIICA	μi) 14 - E FTΣμα - (12μα 21542-(11.)
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	G SEQUENCE	
A.)	INITIATE THE CONVERSION	WITH THE STATEMENT
	CALL ENCODE (LI	NE(1))
		THE FIRST CHARACTER IN WORD
		N ARRAY BIG ENOUGH TO CONTAIN
		ON (5 POSITIONS PER DOUBLE-
6)	WORD). Convert one variable ea	CH TTME WITTH ANV CE
	THE FOLLOWING STATEMENT	
	CALL FMTI (K,LN)	INTEGER VARIABLE I TO
	anaton mana 1996 - 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	FORMAT I(LN)
	CALL FMTJ (K,LN)	SAME AS FMTI BUT LN SPACES
		IF K=0
	CALL FMTO (K,LN)	SAME AS FMTI BUT UNSIGNED"
		OCTAL FORMAT
	CALL FMTF (R,LN,ID)	REAL VARIABLE R TO
		FORMAT F(LN).(ID)
	CALL FMTD (D,LN,ID)	SAME AS FMTF BUT
·		D IS A DOUBLE PRECISION VARIABLE
	CALL FMTA (H,LN)	ALPHANUMERIC VARIABLE
	Seef ETSee Equin 1 − 1 + 2 − 7 − − 4 + 1 − 2 − 8 mm − 1 + 4	OR CONSTANT H TO
		FORMAT A(LN). H IS A
		DOUBLE WORD.
	CALL FMTR (ICHAR)	ICAHR INTEGER VARIABLE
		CONTAINING ONE 7-BIT-ASCII
		CHARACTER RIGHT JUSTIFIED
	CALL FMTX (LN)	GENERATES LN BLANK
	CALL FMTS (LN)	POSITIONS
	LALL PHIS LUNJ	WILL SKIP LN POSITION WITHOUT CHANGING ITS
		EARLIER CONTENTS I.E FMTS
		WILL ONLY MOVE THE POINTER.
		ਾਂ ਦਾ ਸਾਰ ਦੇ ਦਾ ਨਾਲ ਹੈ, ਇਸ ਨੇ ਨੇ ਸਾਰ ਨੇ ਦੇ ਸਾਹਿਤ ਨੇ ਸਾਰੇ ਨੇ ਉਹ ਹੈ ਹੈ ਕਿ
	LN IS AN INTEGER CONSTA	NT OR VARIABLE WICH SPECIFIES
	THE FIELD WITH IN CHARA	CTERS, AND ID IS THE
	NUMBER OF DECIMALS IN F	
		ER WILL BE MOVED LN POSITIONS
		IS ONLY LIMITED OF SPACE
	RESERVED FOR LINE.	
0	.EJECT	
2 COECTAL NOTES-		

SPECIAL NOTES: A)

ALL ROUTINES. IF LN<1 THE ROUTINE WILL RETURN WITHOUT ANY PROCESSING. IT IS NOT POSSIBLE TO MOVE THE POINTER BACKWARD IF LN < Ø

		TH ENTR-0411
		IN FMTS-CALL.
	B)	FMTI,FMTJ
		IF THE INTEGER IS TO BIG FOR A FIELD OF LN POSITIONS,
		ONLY THE LAST LN DIGITS OF THE INTEGER WILL BE STORED
		IN THE FIELD. NO ERROR INDICATION.
	(C)	FMTA
		IF LN > 5 THE LN CHARACTERS WILL BE FETCHED FROM
		CONSECUTIVE DOUBLEWORDS H(1), H(2),
	D)	FMTF,FMTD
		RESTRICTIONS
	1	-(2**17) <r< 2**17<="" td=""></r<>
		-(2**17) <d< 2**17<="" td=""></d<>
	٤	LN > ID+1+ NUMBER OF INTEGER PLACES
(LN > ID+ NUMBER OF INTEGER PLACES IF POSITIVE R,D
N		ONE LESS IF ID=0
		EXCEPTION LN > ID+1 IF (R,D) IS LESS THAN 1
		AND (R,D) GREATER OR EQUAL TO Ø.
	3	#1 < ID < 6
(OUTPUT FORMAT
		<pre><spaces>< = IF R,D NEGATIVE><integer part=""></integer></spaces></pre>
		(<point><decimal part=""> IF ID>0)</decimal></point>
		IF =1 < R,D <= 0 THEN
		<pre><spaces><=><pre>POINT><decimal part=""></decimal></pre></spaces></pre>
		IF @ <= R,D <1 THEN
		<pre><spaces><zero><point><decimal point=""></decimal></point></zero></spaces></pre>
		IF THE NUMBER IS TO LARGE TO FIT, OR SOME OTHER
		VIOLATION OF THE RESTRICTIONS, THEN THE FIELD
		IS FILLED WITH ***
	E)	THERE IS A ROUTINE AVAIBLE TO SAVE AND RESET THE ENCODE
		POINTER
		CALL ENCENT (R) STORE ENCODE POINTER IN DOUBLE-
		WORD R.
		CALL ENCRES (R) RESET ENCODE POINTER.
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