

ASSIGN M;CI,(FILE,SCRAM,;DOOCI)  
METASYM CI,L8

H01 12125 SEP 08, 175

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PCC 0
SCRAM SCRAMBLE LOGON PASSWORDS

*M*
*
*P* NAME: SCRAM
*P* PURPOSE: SCRAMBLE LOGON PASSWORDS FOR TEL,CCI,LOGON AND SUPER
*P* DESCRIPTION: SCRAM USES AN IRREVERSIBLE ALGORITHM STARTING
*P* WITH A SEED WORD TO ENCODE PASSWORDS.
*
*D* NAME: SCRAM
*D* PURPOSE: TO ENCODE LOGON PASSWORDS
*D* DESCRIPTION:
*D* INPUT: R12-R13 - BLANK FILLED TEXT PASSWORD
*D* OUTPUT: R6-R7 - ENCODED PASSWORD
*D* WORK: R2-R4
*D* LINK: R11
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17 *****
18 00000000 R0 EQU 0
19 00000001 R1 EQU 1
20 00000002 R2 EQU 2
21 00000003 R3 EQU 3
22 00000004 R4 EQU 4
23 00000005 R5 EQU 5
24 00000006 R6 EQU 6
25 00000007 R7 EQU 7
26 00000008 R8 EQU 8
27 00000009 R9 EQU 9
28 0000000A R10 EQU 10
29 0000000B R11 EQU 11
30 0000000C R12 EQU 12
31 0000000D R13 EQU 13
32 0000000E R14 EQU 14
33 0000000F R15 EQU 15
34 *****

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36          *S*          SYSTEM  SIG7
37          DEF          SCRAM          ENTRY POINT OF SCRAMBLER
38 02 0000          CSECT          0
39          REF          SEED          SEED FOR SCRAMBLER
40 02 0000          00000000 N SCRSEED DATA SEED
41 03 0000          SCRAM          CSECT          1
42 03 0000          32600000 02 SCRAM LW,R6 SCRSEED
43 03 00001         49300004 BNEZ SCRO
44 03 00002         1260000C A LD,R6 R12          IF SEED IS ZERO NO SCRAMBLE
45 03 00003         F800000B A B          *R11
46 03 00004         22200000 A SCRO LI,R2 0
47 03 00005         7234000C A SCR1 LB,R3 R12,R2 GET CHARACTER
48 03 00006         32400003 A LW,R4 R3
49 03 00007         2540007C A SLS,R4 *4
50 03 00008         32700006 A SCR2 LW,R7 R6

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51	03	00009	37600006	A
52	03	0000A	25660307	A
53	03	0000B	48600007	A
54	03	0000C	64400008	
55	03	0000D	20200001	A
56	03	0000E	21200007	A
57	03	0000F	68200005	
58	03	00010	F800000B	A
59				

MW,R6	R6
SCD,R6	7,R3
EOR,R6	R7
BDR,R4	SCR2
AI,R2	1
CI,R2	7
BLE	SCR1
B	*R11
END	

SQUARE IT  
SELECT SOME PORTION

CONTROL SECTION SUMMARY: 01 00000 PT 0      02 00001 PT 0      03 00011 PT 1

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\* SYMBOL VALUES  
R0/00000000  
R12/0000000C  
R2/00000002  
R6/00000006  
SCRSEED/02 00000  
\* EXTERNAL DEFINITIONS  
SCRAM/03 00000  
\* PRIMARY REFERENCES  
SEED  
\* NO SECONDARY REFERENCES  
\* NO UNDEFINED SYMBOLS  
\* ERROR SEVERITY LEVEL: 0  
\* NO ERROR LINES

R1/00000001  
R13/0000000D  
R3/00000003  
R7/00000007  
SCR0/03 00004

R10/0000000A  
R14/0000000E  
R4/00000004  
R8/00000008  
SCR1/03 00005

R11/0000000B  
R15/0000000F  
R5/00000005  
R9/00000009  
SCR2/03 00008