

ABSTRACT

This program was written to augment the PIP LIST option since the latter does not give any information about the location of files on the disk or DECTape. Five options are available:

1. C - COUNT the number of free files and blocks.
2. L - LIST the files.
3. S - SEARCH for a named file.
4. D - DUMP the contents of a SAM block onto the T/T.
5. H - HALT in a DN specification.

The program reads into core all the DN and SAM blocks from the system device, disks or DECTape and asks for the required option, which is selected by typing one of the above letters. The options have the following functions:

C OPTION examines the DN blocks in core for missing (zero) file names, and examines the SAM blocks for unallocated blocks on the system device. Two numbers are typed out: (free files) F: (free blocks) B.

L OPTION gives a list of all the files on the system device in the following format (see also Figure 1):

FN: C, NAME, XXXXX, YYYYY; BLOCK 1 - BLOCK N, N

where, FN = 2 digit file number

C = type of file A-ASCII, B-BINARY, F-FORTRAN BINARY, S-SYSTEM,
U-USER

NAME = the file name

XXXXX = 5 digit field and lowest core address

YYYYY = 5 digit field and starting address (entry point)

BLOCK 1, N = the block numbers on the system device, if these are not contiguous this format is repeated as often as necessary

N = the number of blocks used by the file

If a file number is not used, only the number is typed. The list ends with the numbers from the C option.

The list can be stopped at any time by typing a character (e.g. space-bar). The program returns to option selection.

S OPTION gives the statistics of a named file in a similar format to the list option (see Figure 2). If two or more files have the same name each can be examined by repeatedly calling for the file by name. If the file is called too often PEEP types a query (?) only. The lowest

unused file number can be obtained by asking for a no-name file, i.e. by hitting the return key only. Repeated use gives the numbers of all the unused files. Since the DN specification of such a file is 5 zero words the file type is given as ASCII with core address \emptyset , S.A. = \emptyset and no \emptyset blocks (see example in Figure 2).

D OPTION gives a print-out on the T/T of the contents of a SAM block specified by number (see Figure 3). There is one SAM block for each disk and 6 SAM blocks on a DECTape. Illegal block numbers are rejected by PEEP. The type-out is in 8 columns, 16 rows, but it can be stopped at any time by typing a character (e.g. space-bar).

H OPTION is used to change the starting address (entry point) of a file to the halt location of Monitor so that it can be called into core later and modified before running it or resaving it on the system device or another device. Thus a file can be called into core from one DECTape and written into another or a (possibly) modified copy made on the first DECTape. To use the H option the number of the file is typed and PEEP replies with the file name and the present starting address. The user then types 7636 and PEEP echoes file number, name and 7636. The user can accept that the DN block should be so modified by typing a return or he can change his mind and leave the starting address unmodified by typing any other character, such as space-bar or ~~sub-out~~. Typing errors cause cancellation of the option without modification of the starting address, which in any case can only be changed to 7636. Only User and System files are allowed to be 'halted.'

CORE USAGE

The program occupies locations 20 to 1777. It uses 2000 to 2577 to store the three DN blocks and one page above 2577 for each SAM block (for DECTape 2600 to 4177). The next page is used to store, temporarily, the block numbers of the file currently being examined before the type-out routine is entered. The basic I/O routine is used for communicating with the system device through Monitor; an effective JMS 7642 is used. The program can HALT for two reasons; 1) an error return to the I/O routine from Monitor due to a READ error gives a HALT at location 332; 2) after completion of an H option and modification of a DN block the program jumps to the halt location 7636 in Monitor.

NOTES

1. Monitor is file number $\emptyset 1$, file name EX (space) C.
2. All numbers typed out have leading zeros suppressed, but zero = \emptyset .
3. Files containing noncontiguous pages of core have a start address 7777 in the DN entry in place of the lowest core address. PEEP does not allow the examination of the first block of the file to find the page assignments of the file.
4. CTRL/L returns S option to OPT.
5. CTRL/C returns computer to Monitor.

ACKNOWLEDGEMENT

This program is based on a Directory Search program given in DEC Software Performance

Summary, Volume 1, No. 1. Several deletions, a few corrections and many additions have been made.

- Figure 1 Example of L OPTION type-out.
- Figure 2 Example of the use of the S OPTION.
- Figure 3 Example of D OPTION type-out from a 2 disk system.

OPT L

1:S, EX C,	7000,	7000;	0- 11, 177-	202,	373-	375,	401-	401,
			774- 777,	26				
2:S, BNLD,	17600,	17700;	23- 23,	1				
3:S, HALT,	7400,	7565;	24- 24,	1				
4:S, LOAD,	7000,	7000;	12- 14,	3				
5:S, .CD.,	0,	0;	15- 22,	6				
6:S, PIP,	7777,	10000;	26- 57,	32				
7:S, EDIT,	0,	26000;	25- 25,	60-	73,	15		
10:S, PALD	0,	62000;	74- 132,	37				
11:S, PALP,	0,	62000;	133- 171,	37				
12:S, LOOK,	200,	200;	172- 174,	3				
13:S, PALX,	66000;	66000;	175- 176,	203-	204,	4		
14:S, TMCI,	17200,	17375;	205- 206,	2				
15:S, TMC0,	7200,	7375;	207- 210,	2				
16:S, BPN0,	7400,	7465;	211- 211,	1				
17:S, BPNI,	17400,	17465;	212- 212,	1				
20:S, BTG,	60000,	60000;	213- 213,	1				
21:U, NX30,	0,	7636;	214- 232,	266-	266,	274-	303,	316-
			37				324,	
22:S, PEEP,	0,	2000;	233- 242,	10				
23:U, NX31,	17777,	1 0;	243- 244,	347-	350,	4		
24:A, NX3S,	0,	0;	245- 257,	13				
25:S, F611,	0,	2000;	260- 265,	325-	346,	351-	357,	37
26:S, .SYM,	0,	0;	304- 310,	5				
27:U, NX3D,	1 4000,	1 0;	311- 315,	5				
30:U, DTM2,	1 4000,	1 0;	267- 273,	5				
31:S, ST8K,	46000,	2000;	360- 372,	376-	376,	14		
32:A, JMD	0,	0;	417- 453,	455-	517,	100		
33:S, FCL8,	0,	0;	377- 400,	402-	415,	16		
34:S, NUL8,	1 0,	1 113;	416-	1				
35:S, MEDL,	74000,	176;	454- 454,	1				
36:A, TEST,	0,	0;	520- 520,	1				
37:B, TEST,	0,	0;	521- 521,	1				
40:S, TEST,	0,	0;	522- 522,	1				
41:U, TEST,	0,	0;	523- 523,	1				
42								
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36 F : 250 B

OPT

FIGURE 2

PEEP

OPT S

EX C

1:S, 7000, 7000; 0- 11, 177- 202, 373- 375, 401- 401, 774- 777,
26

PIP

6:S, 7777, 1000; 26- 57, 32

TEST

36:A, 0, 0; 520- 520, 1

TEST

37:B, 0, 0; 521- 521, 1

TEST

40:S, 0, 0; 522- 522, 1

TEST

41:U, 0, 0; 523- 523, 1

TEST

?

JMD

32:A, 0, 0; 417- 453, 455- 517, 100

42:A, 0, 0

PEEP

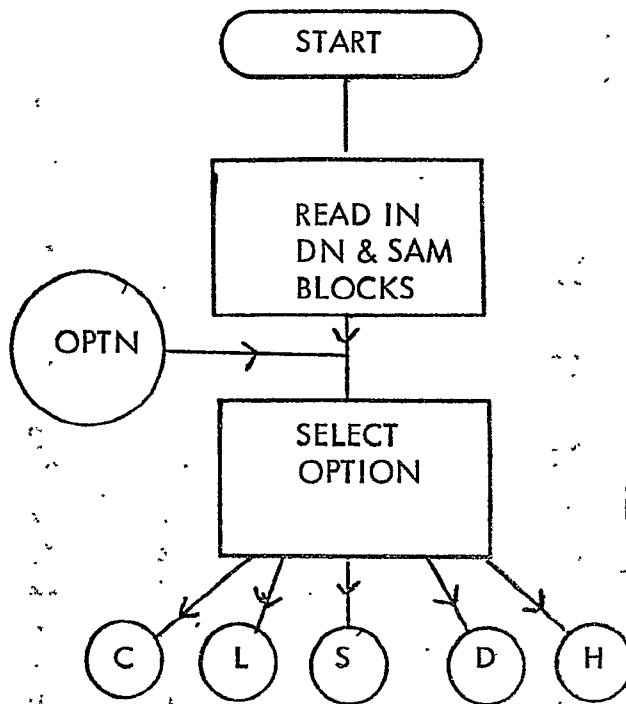
OPT D1

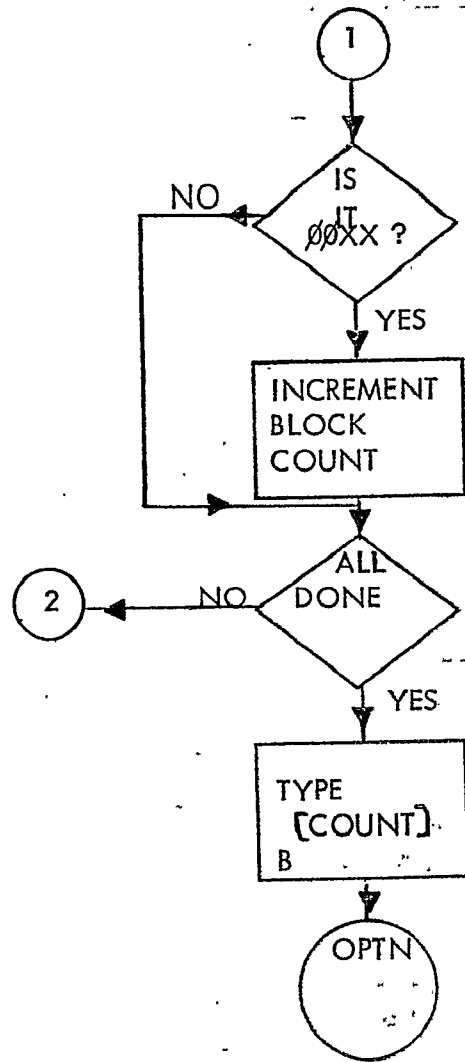
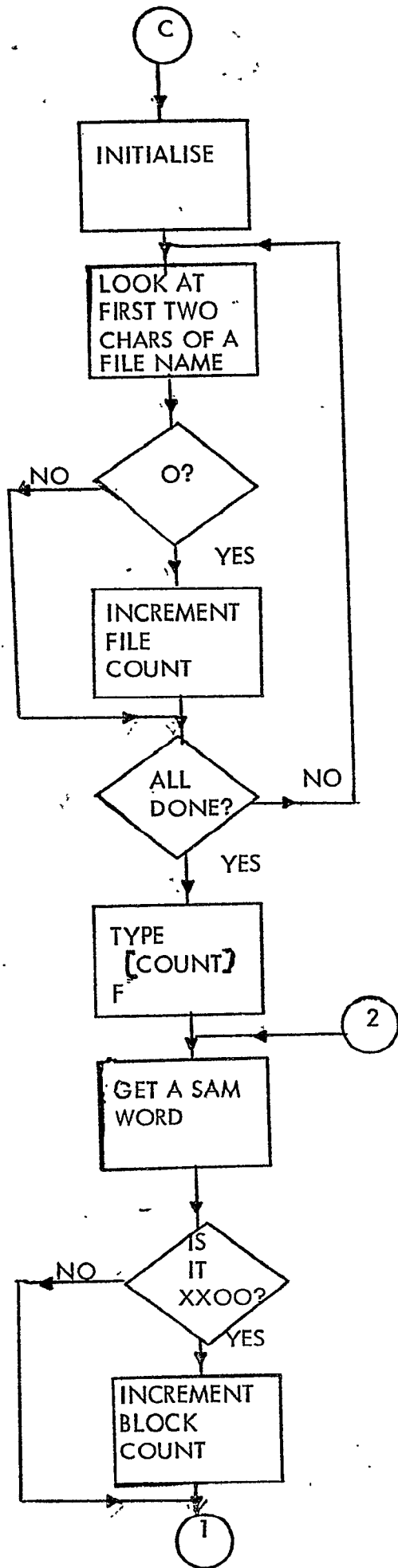
101	101	101	1301	1301	1401	1401	1501
1501	1601	1704	2004	2104	2105	2105	2105
2105	2105	2105	2102	2103	2107	2106	2106
2106	2106	2106	2206	2206	2206	2206	2206
2206	2206	2206	2306	2306	2406	2406	2406
2406	2406	2406	2406	2406	2406	2406	2406
2507	2507	2507	2507	2507	2507	2107	3007
3007	3007	3007	3007	2110	2110	2110	2110
2110	2110	2110	2110	2610	2610	2610	2610
2610	2710	2710	2710	2710	2710	2110	2110
2110	2110	2110	2110	2110	2510	2510	2510
2510	2510	2510	2511	2511	2511	2511	2511
2511	2511	2511	2511	2511	2511	2511	2311
2311	2511	2511	2511	2511	2511	2511	2511
3111	3111	3111	3111	3111	3111	3111	3111
3111	3111	3112	112	112	113	3113	3301

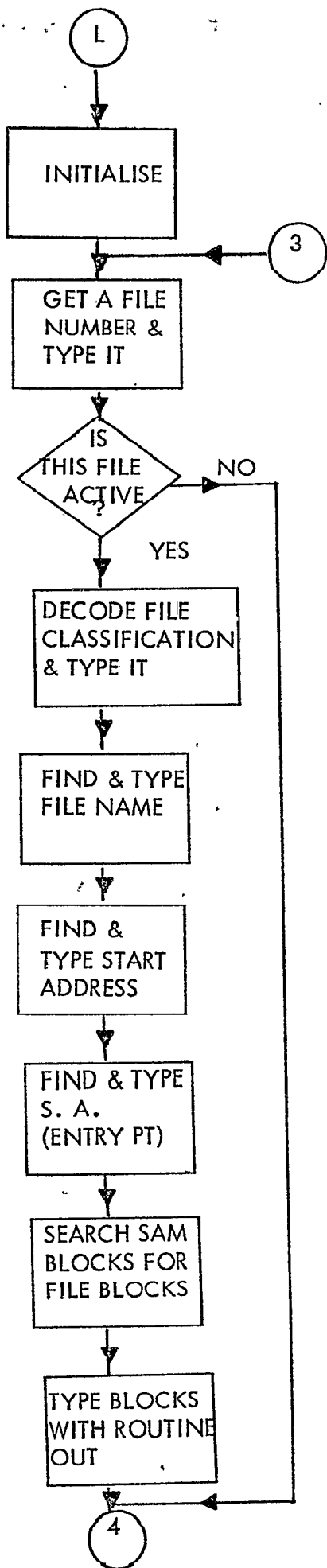
OPT D2

33	1	33	33	33	33	33	33
33	33	33	33	33	33	34	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	35	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
32	32	32	32	32	32	32	32
36	37	40	41	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	100	100	100	100

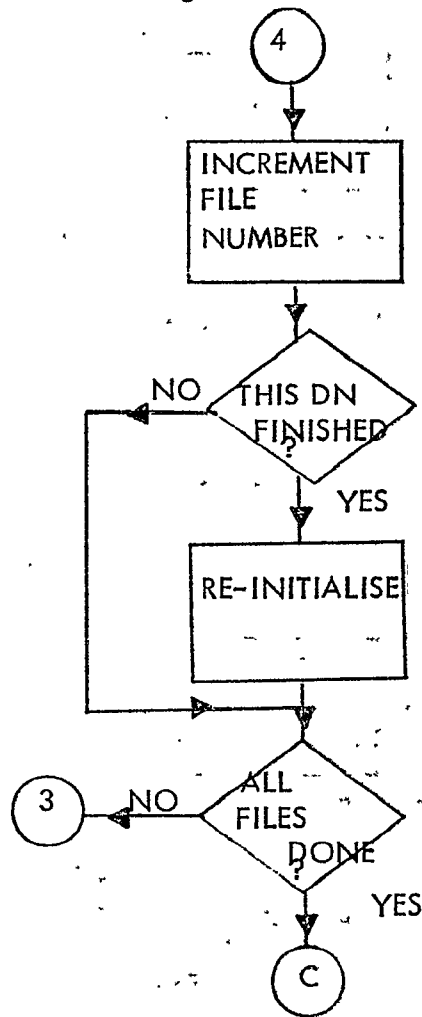
OPT

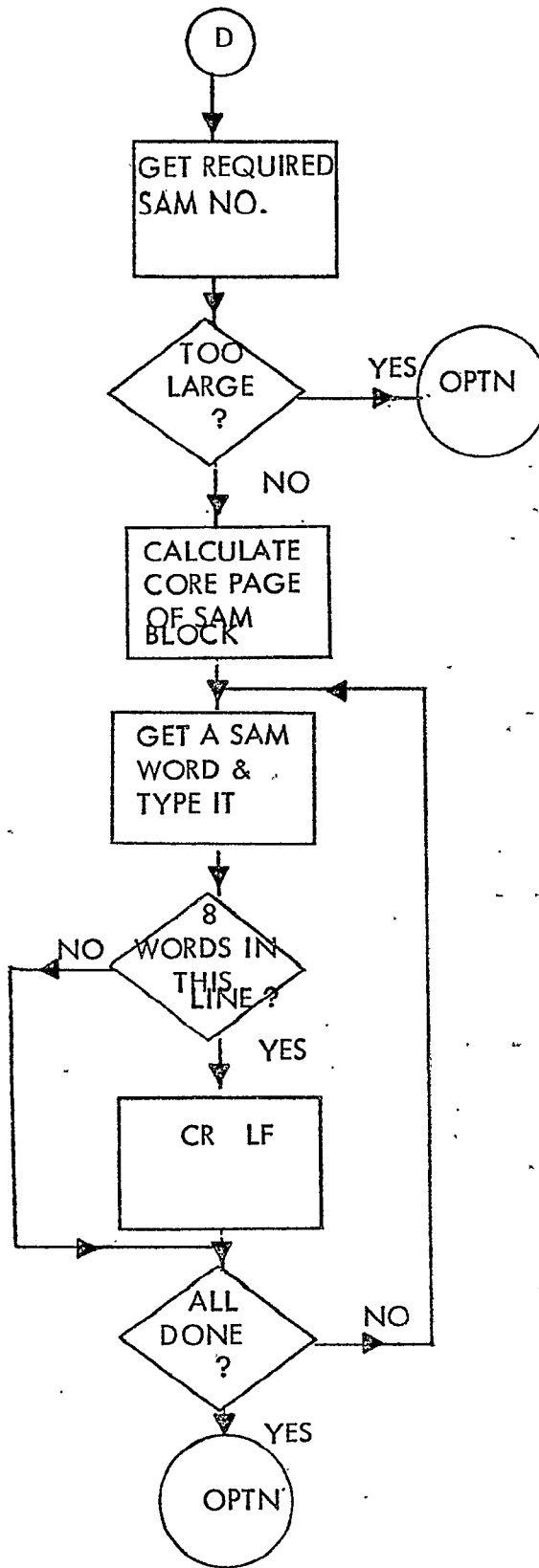


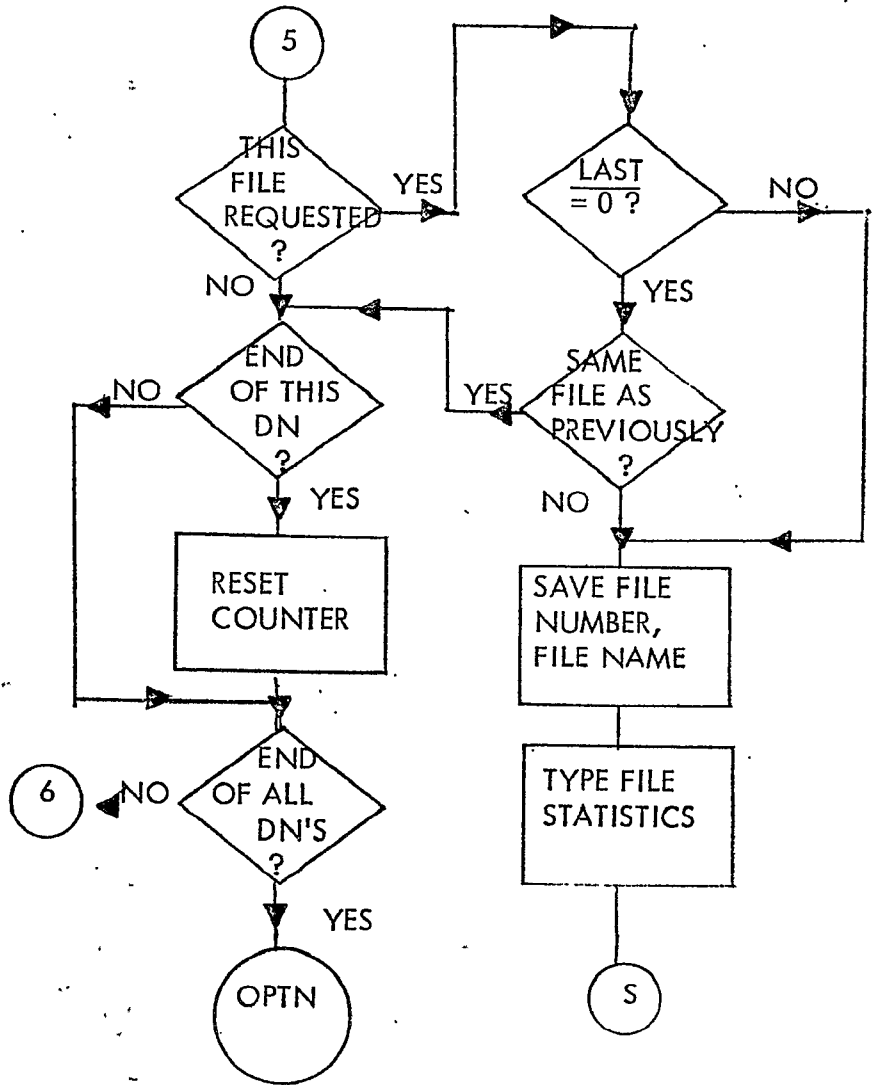
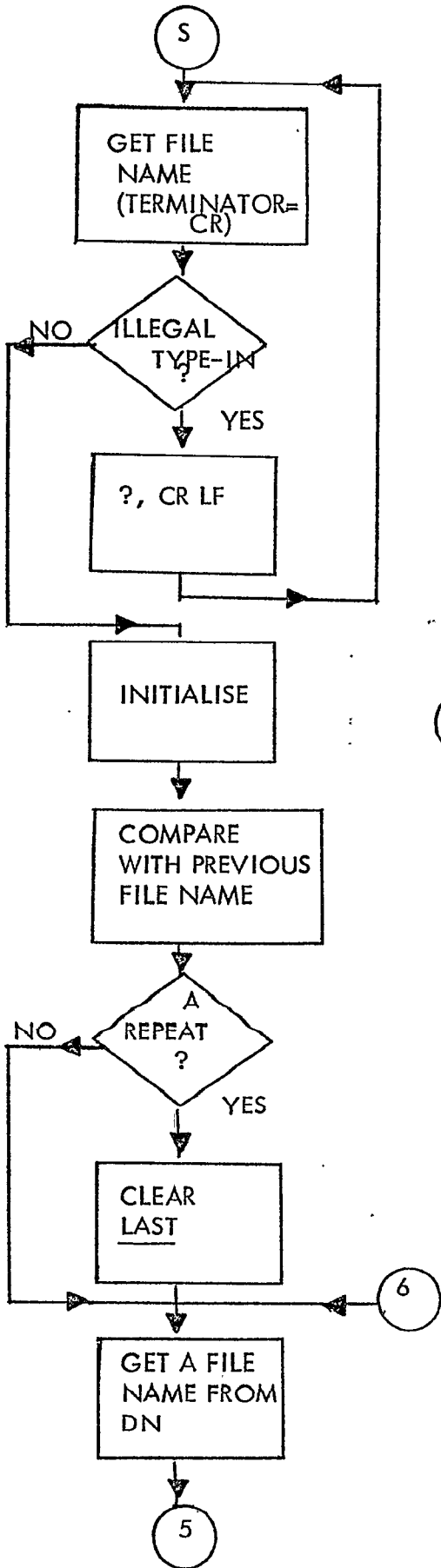


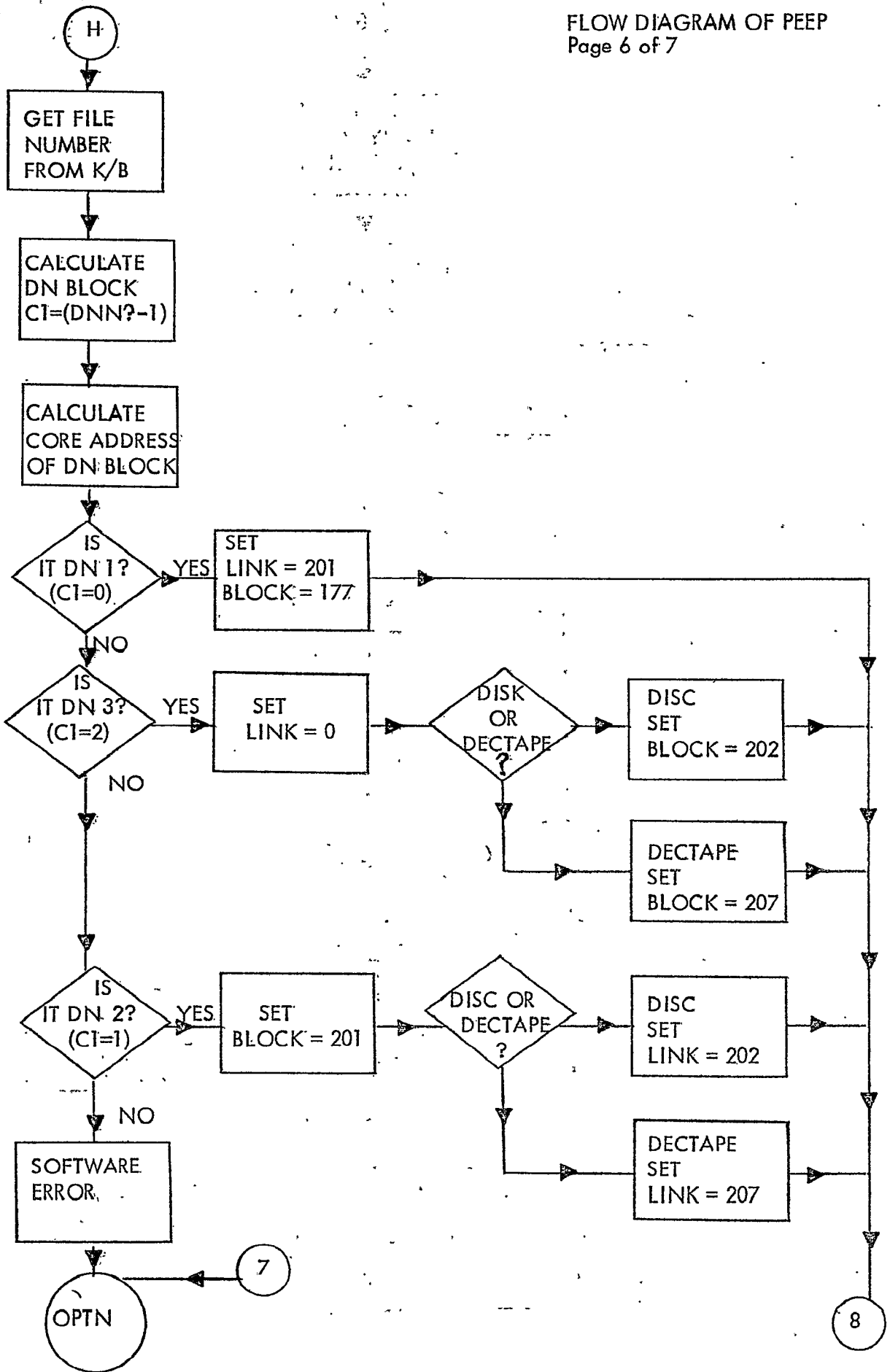


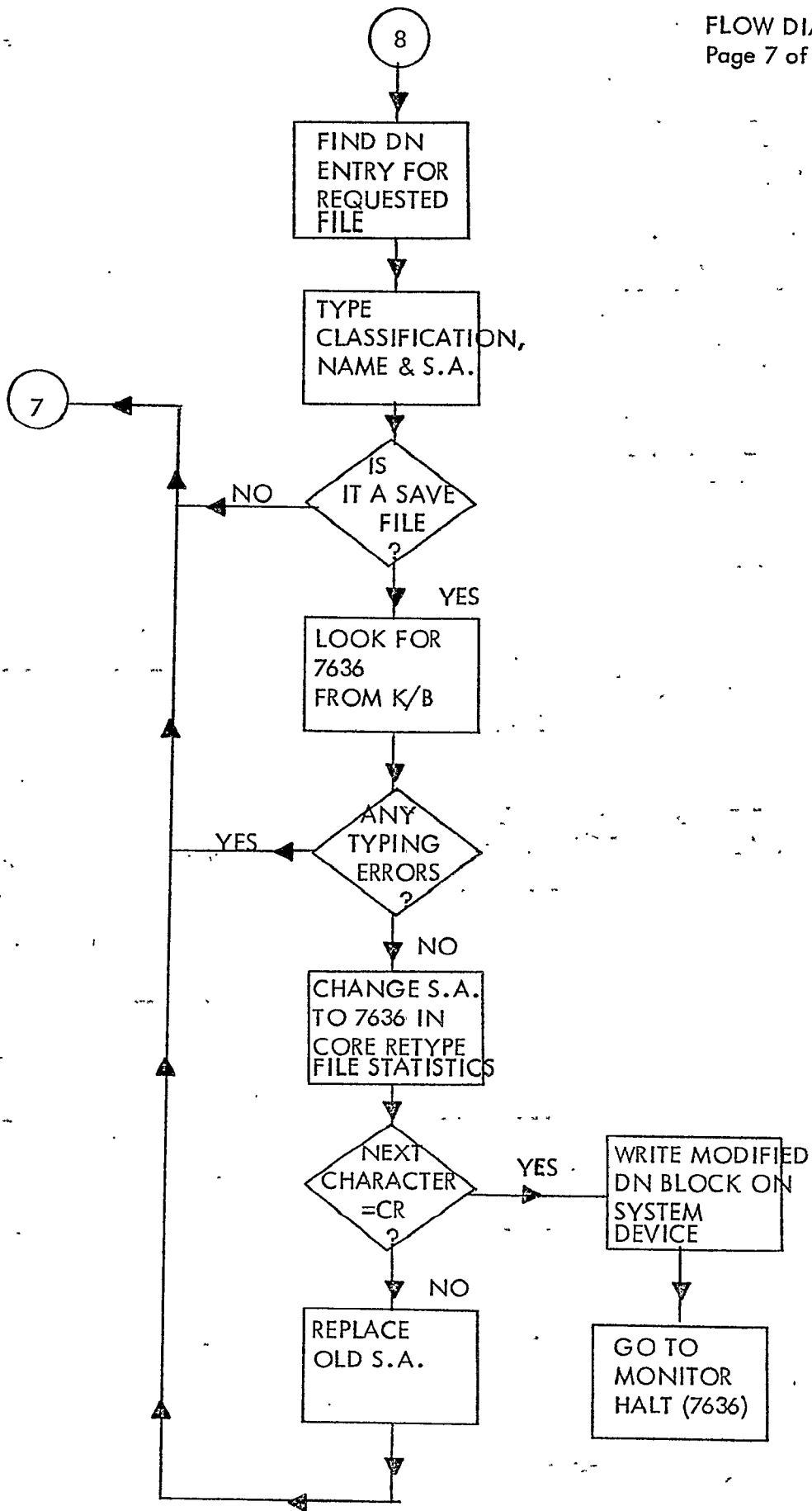
FLOW DIAGRAM OF PEEP
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. PALD
*OUT-R:
*
*IN-S:JMD
*
*OPT -

ABFSU	1676
ABUFF	0044
ACCLASS	1734
ADNBF	0043
ASAMBF	0046
ASK	0302
B	1736
BLKS	0537
BLOK	0325
BUFF	0045
CHAR	0100
CHARS	0142
CHK	1315
CLASS	1735
COL	0075
COMMA	0131
CORE	0326
COUNT	1000
CR	0124
CRLF	0351
CTRL	0334
C1	0040
C2	0041
C250	0137
C3	0042
C7	0135
DASH	0130
DATA	0400
DCNT	0134
DNBF	2000
DNDATA	1121
DNS	0205
DUMP	1400
D1	1427
D2	1452
F	1737
FIND	1605
FINDIT	1600
FIRST	0127
FLD	0116
FNO	0066
FNOK	0065
FUNC	0324

GET	1342
GOTCR	1367
GOTIT	1620
HALT	1456
KTR	0072
LAST	0112
LCT	0141
LF	0125
LFNO	0113
LINK	0327
LIST	0600
LNCT	0123
LOOP	0725
LST	1265
LWORD1	0110
LWORD2	0111
MASK	0103
MC	0050
MCR	0062
MCTRL	0061
MCTRLC	0064
MDMS	0053
MFNO	0067
MHMD	0054
MLMC	0051
MODDN	1673
MONHLT	1675
MONRET	0114
MORE	0656
MRO	0063
MSAM	0106
MSML	0052
M100	0126
M2	0036
M20	0117
M200	0037
M23	0120
M24	0140
M26	0121
M27	0122
M3	0032
M30	0033
M31	0034
M4	0035
M8	0031
NDN	0104
NEXT	0444
NEXTT	0607
NLINE	0524
NOHALT	1670

NOTYET	1302
NSAM	0105
NXT	1012
NXT2	1053
NZ	0514
0	0055
OPT	0047
OPTN	0250
OUT	0426
OUTT	0463
P	0056
PASSC	0071
PASSK	0757
PASS1	0713
PASS2	0720
PNU2	0473
PRNT	1101
PTEM	0132
P177	0021
P20	0136
P200	0024
P201	0145
P202	0146
P207	0147
P3	0020
P4	0030
P40	0023
P5	0027
P7	0022
P7636	0143
P77	0025
P7700	0026
QMARK	0077
RBLK	0322
READ	0200
SAMFND	0760
SAMN	0107
SAMS	0217
SAVEF	0144
SCOL	0076
SEARCH	1200
SERCH	1244
SETLF	1324
SP	0060
SRCH	0675
SSS	0115
SYSIO	0074

T	0057
TEMP	0073
TEST	1266
THISDN	0664
THSDN	1307
TSTW	0070
TYPE	0342
WBLK	1742
WBLOK	1745
WCORE	1746
WHAT	0273
WHICH	1236
WLINK	1747
WORD1	0101
WORD2	0102
WSET	1510
WSET1	1542
WSET2	1527
ZZ	0133

/PEEP MK 3

/

*20

/

0020	0003	P3,	3
0021	0177	P177,	177
0022	0007	P7,	7
0023	0040	P40,	40
0024	0200	P200,	200
0025	0077	P77,	77
0026	7700	P7700,	7700
0027	0005	P5,	5
0030	0004	P4,	4
0031	7770	MS,	-10
0032	7775	M3,	-3
0033	7750	M30,	-30
0034	7747	M31,	-31
0035	7774	M4,	-4
0036	7776	M2,	-2
0037	7600	M200,	-200
0040	0000	C1,	0
0041	0000	C2,	0
0042	0000	C3,	0
0043	2000	ADNBF,	DNBF
0044	0000	ABUFF,	0
0045	0000	BUFF,	0
0046	0000	ASAMBF,	0
0047	0000	OPT,	0
0050	7735	MC,	-43
0051	7767	MLMC,	43-54
0052	7771	MSML,	54-63
0053	0017	MDMS,	63-44
0054	7774	MHMD,	44-50
0055	0317	O,	317
0056	0320	P,	320
0057	0324	T,	324
		/	
0060	0240	SP,	240
0061	7564	MCTRL,	-214
0062	7777	MCR,	214-215
0063	7616	MRO,	215-377
0064	0174	MCTRLC,	377-203
0065	0000	FNOK,	0
0066	0000	FNO,	0
0067	0000	MFNO,	0
0070	0000	TSTW,	0
0071	0000	PASSC,	0
0072	0000	KTR,	0
0073	0000	TEMP,	0
0074	7642	SYSIO	7642
0075	0272	COL,	272

/DNBF + 1200 FOR 2 DISCS; +2200 FOR DECTAPE

/DNBF + 600 FOR 2 DISCS OR DECTAPE

/-C+240

/C-L

/L-S

/S-D

/SAM SEARCH COUNTER

/BLOCK POINTER

/MONITOR I/O ROUTINE ADDR.

0076	0273	SCOL,	273
0077	0277	QMARK,	277
0100	0000	CHAR,	0
0101	0000	WORD1,	0
0102	0000	WORD2,	0
0103	0000	MASK,	0
0104	0000	NDN,	0
0105	0000	NSAM,	0
0106	0000	MSAM,	0
0107	0000	SAMN,	0
0110	7777	LWORD1,	7777
0111	7777	LWORD2,	7777
0112	0000	LAST,	0
0113	0000	LFNO,	0
0114	7600	MONRET,	7600
0115	0000	SSS,	0
		/	
0116	0000	FLD,	0
0117	7760	M20,	-20
0120	7755	M23,	-23
0121	7752	M26,	-26
0122	7751	M27,	-27
0123	0000	LNCT,	0
0124	0215	CR,	215
0125	0212	LF,	212
0126	7700	M100,	-100
0127	0000	FIRST,	0
0130	0255	DASH,	255
0131	0254	COMMA,	254
0132	0000	PTEM,	0
0133	0000	ZZ,	0
0134	0000	DCNT,	0
0135	0007	C7,	7
0136	0020	P20,	20
0137	0260	C260,	260
0140	7754	M24,	-24
0141	0000	LCT,	0
0142	0000	CHARS,	0
0143	7636	P7636,	7636
0144	0000	SAVEF,	0
0145	0201	P201,	201
0146	0202	P202,	202
0147	0207	P207,	207

/
/ FETCH DN & SAM BLOCKS FROM DISCS OR DECTAPE
/

*200
/

0200	1043	READ,	TAD ADNBF
0201	3326		DCA CORE
0202	3104		DCA NDN /NO. OF DN BLKS.

Ø2Ø3	31Ø5		DCA NSAM	/NO. OF SAM BLKS.
Ø2Ø4	1Ø21		TAD P177	
Ø2Ø5	3325	DNS,	DCA BLOK	
Ø2Ø6	4322		JMS RBLK	
Ø2Ø7	1Ø24		TAD P2ØØ	
Ø21Ø	1326		TAD CORE	
Ø211	3326		DCA CORE	
Ø212	21Ø4		ISZ NDN	
Ø213	1327		TAD LINK	
Ø214	744Ø		SZA	
Ø215	52Ø5		JMP DNS	
Ø216	1Ø24		TAD P2ØØ	
Ø217	3325	SAMS,	DCA BLOK	/READ IN SAM BLOKS.
Ø22Ø	4322		JMS RBLK	
Ø221	1Ø24		TAD P2ØØ	
Ø222	1326		TAD CORE	
Ø223	3326		DCA CORE	
Ø224	21Ø5		ISZ NSAM	
Ø225	1327		TAD LINK	
Ø226	744Ø		SZA	
Ø227	5217		JMP SAMS	
Ø23Ø	11Ø4		TAD NDN	/INIT. BUFFER ADDRS.
Ø231	7112		CLL RTR	
Ø232	7Ø12		RTR	
Ø233	7Ø12		RTR	
Ø234	1Ø43		TAD ADNBF	
Ø235	3Ø46		DCA ASAMBF	
Ø236	11Ø5		TAD NSAM	
Ø237	7112		CLL RTR	
Ø24Ø	7Ø12		RTR	
Ø241	7Ø12		RTR	
Ø242	1Ø46		TAD ASAMBF	
Ø243	3Ø44		DCA ABUFF	
Ø244	6Ø32		KCC	
Ø245	6Ø46		TLS	
Ø246	4351		JMS CRLF	
Ø247	3Ø47		DCA OPT	

/SELECT OPTION

Ø25Ø	72ØØ	OPTN,	CLA	
Ø251	3115		DCA SSS	
Ø252	4351		JMS CRLF	
Ø253	43Ø2		JMS ASK	
Ø254	1Ø5Ø		TAD MC	
Ø255	745Ø		SNA	/IS IT COUNT OPTION ?
Ø256	5777		JMP COUNT	
Ø257	1Ø51		TAD MLMC	
Ø26Ø	745Ø		SNA	/IS IT LIST OPTION ?

ø261	5776		JMP LIST	
0262	1ø52		TAD MSML	
ø263	745ø		SNA	/IS IT SEARCH OPTION ?
ø264	5775		JMP SEARCH	
ø265	1ø53		TAD MDMS	
ø266	745ø		SNA	/IS IT DUMP OPTION ?
ø267	5774		JMP DUMP	
ø27ø	1ø54		TAD MHMD	
ø271	745ø		SNA	/IS IT HALT OPTION ?
ø272	5773		JMP HALT	
ø273	72øø	WHAT,	CLA	/ILLEGAL OPTION
ø274	4351		JMS CRLF	
ø275	1ø6ø		TAD SP	
ø276	4342		JMS TYPE	
ø277	1ø77		TAD QMARK	
ø3øø	4342		JMS TYPE	
ø3ø1	525ø		JMP OPTN	
/				
ø3ø2	øøøø	ASK,	ø	
ø3ø3	72øø		CLA	
ø3ø4	1ø55		TAD O	
ø3ø5	4342		JMS TYPE	
ø3ø6	1ø56		TAD P	
ø3ø7	4342		JMS TYPE	
ø31ø	1ø57		TAD T	
ø311	4342		JMS TYPE	
ø312	1ø6ø		TAD SP	
ø313	4342		JMS TYPE	
ø314	4772		JMS GET	
ø315	5314		JMP .-I	/R.O.
ø316	525ø		JMP OPTN	
ø317	3ø47		DCA OPT	
ø32ø	1ø47		TAD OPT	
ø321	57ø2		JMP I ASK	
/				
ø322	øøøø	RBLK,	ø	
ø323	4474		JMS I SYSIO	
ø324	øøø3	FUNC,	3	
ø325	øøøø	BLOK,	ø	
ø326	øøøø	CORE,	ø	
ø327	øøøø	LINK,	ø	
ø33ø	741ø		SKP	
ø331	5722		JMP I RBLK	
ø332	74ø2		HLT	
ø333	52øø		JMP READ	
/				
ø334	øø55	CTRL,	O	
ø335	1ø61		TAD MCTRL	/- ↑ L

Ø336	744Ø		SZA	
Ø337	5734		JMP I CTRL	
Ø34Ø	3Ø47		DCA OPT	
Ø341	525Ø		JMP OPTN	
/				
Ø342	ØØØØ	TYPE,	Ø	
Ø343	6Ø41		TSF	
Ø344	5343		JMP .-1	
Ø345	6Ø46		TLS	
Ø346	72ØØ		CLA	
Ø347	2123		ISZ LNCT	/COUNT CHARS. IN A LINE
Ø35Ø	5742		JMP I TYPE	
/				
Ø351	ØØØØ	CRLF,	Ø	
Ø352	3123		DCA LNCT	
Ø353	1124		TAD CR	
Ø354	4342		JMS TYPE	
Ø355	1125		TAD LF	
Ø356	4342		JMS TYPE	
Ø357	5751		JMP I CRLF	
/				
Ø372	1342			
Ø373	1456			
Ø374	14ØØ			
Ø375	12ØØ			
Ø376	Ø6ØØ			
Ø377	1ØØØ			
/				
		PAGE		
/				
Ø4ØØ	ØØØØ	DATA,	Ø	
Ø4Ø1	1Ø75		TAD COL	
Ø4Ø2	4777		JMS PE	
Ø4Ø3	1441		TAD I C2	
Ø4Ø4	4776		JMS ABFSU	/TYPE FILE CLASSIFICATION
Ø4Ø5	1Ø41		TAD C2	
Ø4Ø6	1Ø35		TAD M4	
Ø4Ø7	3Ø41		DCA C2	
Ø41Ø	1441		TAD I C2	/TYPE FILE NAME
Ø411	4775		JMS PRNT	
Ø412	2Ø41		ISZ C2	
Ø413	1441		TAD I C2	
Ø414	4775		JMS PRNT	
Ø415	2Ø41		ISZ C2	
Ø416	2Ø41		ISZ C2	
Ø417	1131		TAD COMMA	
Ø42Ø	4777		JMS TYPE	
Ø421	1116		TAD FLD	
Ø422	4777		JMS TYPE	
Ø423	1441		TAD I C2	/TYPE S.A.
Ø424	4263		JMS OUTT	

Ø425	56ØØ		JMP I DATA	
Ø426	ØØØØ	/	Ø	/O/P A 4 DIGIT NO.
Ø427	72ØØ	OUT,	CLA	
Ø43Ø	1Ø44		TAD ABUFF	
Ø431	3Ø45		DCA BUFF	
Ø432	1123		TAD LNCT	
Ø433	1126		TAD MIØØ	
Ø434	77ØØ		SMA CLA	/LINE FILLED ?
Ø435	4324		JMS NLINE	/YES CR LF & TAB
Ø436	1445		TAD I BUFF	/NO
Ø437	751Ø		SPA	
Ø44Ø	5337		JMP BLKS	/ALL DONE - O/P NO. OF BLOCKS
Ø441	3127		DCA FIRST	
Ø442	1127		TAD FIRST	
Ø443	4263		JMS OUTT	
Ø444	2Ø45	NEXT,	ISZ BUFF	
Ø445	1445		TAD I BUFF	/GET NEXT BLOCK NO.
Ø446	7Ø41		CIA	
Ø447	2127		ISZ FIRST	
Ø45Ø	1127		TAD FIRST	
Ø451	765Ø		SNA CLA	/= PRESENT BLK. NO. ?
Ø452	5244		JMP NEXT	/YES
Ø453	113Ø		TAD DASH	/NO - END OF A RUN OF BLKS.
Ø454	4777		JMS TYPE	
Ø455	7Ø4Ø		CMA	
Ø456	1127		TAD FIRST	
Ø457	4263		JMS OUTT	
Ø46Ø	1131		TAD COMMA	
Ø461	4777		JMS TYPE	
Ø462	5232		JMP OUT+4	/LOOK FOR MORE BLKS.
Ø463	ØØØØ	/	Ø	
Ø464	3132	OUTT,	DCA PTEM	
Ø465	7Ø4Ø		CMA	
Ø466	3133		DCA ZZ	
Ø467	1Ø35		TAD M4	/INIT. DIGIT COUNTER
Ø47Ø	3134		DCA DCNT	
Ø471	1132		TAD PTEM	
Ø472	71Ø4		RAL CLL	
Ø473	7ØØ4	PNU2,	RAL	
Ø474	7ØØ6		RTL	
Ø475	3132		DCA PTEM	
Ø476	1132		TAD PTEM	
Ø477	Ø135		AND C7	
Ø5ØØ	744Ø		SZA	
Ø5Ø1	5314		JMP NZ	/DIGIT NOT =Ø
Ø5Ø2	1133		TAD ZZ	

Ø5Ø3	765Ø.		SNA CLA	/LEADING Ø ?
Ø5Ø4	5314.		JMP NZ	/NO
Ø5Ø5	1134		TAD DCNT	
Ø5Ø6	7ØØ1		IAC	
Ø5Ø7	765Ø.		SNA CLA	
Ø51Ø	1136.		TAD P2Ø	/TYPE LAST Ø IF NO. = Ø
Ø511	1Ø6Ø		TAD SP	/ELSE TYPE SPACE
Ø512	4777		JMS TYPE	
Ø513	5317		JMP NZ+3	
Ø514	1137	NZ,	TAD C26Ø	
Ø515	4777		JMS TYPE	
Ø516	3133		DCA ZZ	
Ø517	1132		TAD PTEM	
Ø52Ø	2134		ISZ DCNT	
Ø521	5273		JMP PNU2	
Ø522	72ØØ		CLA	
Ø523	5663		JMP I OUTT	
Ø524	ØØØØ	/	NLINE, Ø	
Ø525	4774		JMS CRLF	
Ø526	1115		TAD SSS	/SET TABULATION
Ø527	1Ø33		TAD M3Ø	/ 27 FOR LIST OPTION
Ø53Ø	3141		DCA LCT	/ 22 FOR SEARCH OPTION
Ø531	3123		DCA LNCT	
Ø532	1Ø6Ø		TAD SP	/DO TAB.
Ø533	4777		JMS TYPE	
Ø534	2141		ISZ LCT	
Ø535	5332		JMP .-3	
Ø536	5724		JMP I NLINE	
Ø537	72ØØ	/	BLKS, CLA	
Ø54Ø	1Ø6Ø		TAD SP	
Ø541	4777		JMS TYPE	
Ø542	1Ø44		TAD ABUFF	/CALCULATE NO. OF BLKS.
Ø543	7Ø41		CIA	
Ø544	1Ø45		TAD BUFF	
Ø545	4263		JMS OUTT	
Ø546	5626		JMP I OUT	
Ø574	Ø351	/		
Ø575	11Ø1			
Ø576	1676			
Ø577	Ø342			
		PAGE		
		/		
Ø6ØØ	72Ø1	LIST,	CLA IAC	
Ø6Ø1	3Ø66		DCA FNO	/INIT. FILE NO. TO 1
Ø6Ø2	1Ø43		TAD ADNBF	
Ø6Ø3	1Ø22		TAD P7	
Ø6Ø4	3Ø4Ø		DCA CI	/SET TO FIRST EXTENSION
Ø6Ø5	1Ø34		TAD M31	

Ø6Ø6	3Ø65		DCA FNOK	/SET NO. OF FILES/DN
Ø6Ø7	4777	NEXTT,	JMS CRLF	/CR LF
Ø61Ø	6Ø31		KSF	/RETURN TO OPTION ?
Ø611	741Ø		SKP	
Ø612	5776		JMP OPTN-4	
Ø613	1Ø66		TAD FNO	
Ø614	4775		JMS OUTT	/TYPE PRESENT FILE NO.
Ø615	144Ø		TAD I C1	/GET DN EXTENSION WORD
Ø616	ØØ25		AND P77	/MASK FILE NO.
Ø617	765Ø		SNA CLA	/IS THIS FILE ACTIVE ?
Ø62Ø	5256		JMP MORE	/NO
Ø621	1Ø4Ø		TAD C1	
Ø622	1Ø35		TAD M4	
Ø623	3Ø41		DCA C2	
Ø624	1Ø75		TAD COL	
Ø625	4774		JMS TYPE	
Ø626	144Ø		TAD I C1	
Ø627	4773		JMS ABFSU	/TYPE FILE CLASSIFICATION
Ø63Ø	1441		TAD I C2	
Ø631	4772		JMS PRNT	/TYPE FIRST 2 CHARS. OF FILE NAME
Ø632	2Ø41		ISZ C2	
Ø633	1441		TAD I C2	
Ø634	4772		JMS PRNT	/TYPE SECOND 2 CHARS.
Ø635	1131		TAD COMMA	
Ø636	4774		JMS TYPE	
Ø637	1116		TAD FLD	
Ø64Ø	4774		JMS TYPE	
Ø641	2Ø41		ISZ C2	
Ø642	1441		TAD I C2	
Ø643	4775		JMS OUTT	/TYPE START ADDR.
Ø644	1131		TAD COMMA	
Ø645	4774		JMS TYPE	
Ø646	1116		TAD FLD	
Ø647	4774		JMS TYPE	
Ø65Ø	2Ø41		ISZ C2	
Ø651	1441		TAD I C2	
Ø652	4775		JMS OUTT	/TYPE S.A. (ENTRY PT.)
Ø653	1Ø76		TAD SCOL	
Ø654	4774		JMS TYPE	
Ø655	4275		JMS SRCH	
Ø656	2Ø66	MORE,	ISZ FNO	
Ø657	2Ø65		ISZ FNOK	
Ø66Ø	5264		JMP THISDN	
Ø661	1Ø34		TAD M31	
Ø662	3Ø65		DCA FNOK	
Ø663	1Ø2Ø		TAD P3	
Ø664	1Ø4Ø	THISDN,	TAD C1	
Ø665	1Ø27		TAD P5	

0666	3040		DCA CI	
0667	1066		TAD FNO	
0670	7041		CIA	
0671	1025		TAD P77	
0672	7700		SMA CLA	
0673	5207		JMP NEXTT	
0674	5771		JMP COUNT	/ALL FILES LISTED
/				
0675	0000	SRCH,	0	
0676	1066		TAD FNO	
0677	7041		CIA	
0700	3067		DCA MFNO	/-(FILE NO.)
0701	1044		TAD ABUFF	/ADDR. OF BLOCK BUFFER
0702	3045		DCA BUFF	
0703	7040		CMA	
0704	3445		DCA I BUFF	/INIT. START OF BLOCK BUFFER
0705	3041		DCA C2	
0706	1105		TAD NSAM	/SET -(NO. OF SAM BLKS.)
0707	7041		CIA	
0710	3106		DCA MSAM	
0711	1046		TAD ASAMBF	
0712	3357		DCA PASSK	/BLOCK POINTER
0713	1067	PASS1,	TAD MFNO	
0714	3070		DCA TSTW	/SET -(FILE NO.) IN TEST WORD
0715	1036		TAD M2	
0716	3071		DCA PASSC	/INIT. PASS COUNTER
0717	1025		TAD P77	/MASK FOR BLOKS. 0-177
0720	3103	PASS2,	DCA MASK	
0721	1037		TAD M200	
0722	3072		DCA KTR	/COUNTER SET AT -200
0723	1357		TAD PASSK	
0724	3073		DCA TEMP	
0725	1473	LOOP,	TAD I TEMP	/FETCH AND MASK
0726	0103		AND MASK	/ SAM NO.
0727	1070		TAD TSTW	/COMPARE WITH TEST WORD
0730	7650		SNA CLA	
0731	4360		JMS SAMFND	/FOUND MATCH - STORE
0732	2073		ISZ TEMP	
0733	2041		ISZ C2	
0734	2072		ISZ KTR	/END OF PASS 1 ?
0735	5325		JMP LOOP	/NO REPEAT
0736	1070		TAD TSTW	/SET
0737	7006		RTL	/ TEST
0740	7006		RTL	/ WORD
0741	7006		RTL	/ FOR
0742	0026		AND P7700	/ BLOCKS
0743	3070		DCA TSTW	/ 200-377
0744	1026		TAD P7700	/CHANGE MASK FOR PASS 2
0745	2071		ISZ PASSC	/SKIP IF END. PASS 2
0746	5320		JMP PASS2	
0747	7200		CLA	

Ø75Ø	1357	TAD PASSK	
Ø751	1Ø24	TAD P2ØØ	
Ø752	3357	DCA PASSK	
Ø753	21Ø6	ISZ MSAM	/HAVE ALL SAM BLKS. BEEN SEARCHED ?
Ø754	5313	JMP PASS1	/SEARCH NEXT SAM BLK.
Ø755	477Ø	JMS OUT	
Ø756	5675	JMP I SRCH	
Ø757	ØØØØ	PASSK, Ø	

Ø76Ø	ØØØØ	SAMFND, Ø	
Ø761	1Ø41	TAD C2	
Ø762	3445	DCA I BUFF	
Ø763	7Ø4Ø	CMA	
Ø764	2Ø45	ISZ BUFF	
Ø765	3445	DCA I BUFF	
Ø766	576Ø	JMP I SAMFND	

Ø77Ø	Ø426		
Ø771	1ØØØ		
Ø772	11Ø1		
Ø773	1676		
Ø774	Ø342		
Ø775	Ø463		
Ø776	Ø244		
Ø777	Ø351		

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1ØØØ	4777	COUNT, JMS CRLF	
1ØØ1	3Ø66	DCA FNO	
1ØØ2	1Ø2Ø	TAD P3	/INIT. DN POINTER TO DNBF+3
1ØØ3	1Ø43	TAD ADNBF	
1ØØ4	3Ø4Ø	DCA CI	
1ØØ5	1Ø25	TAD P77	/INIT. FILE NO. COUNT
1ØØ6	7Ø41	CIA	
1ØØ7	3Ø41	DCA C2	
1Ø1Ø	1Ø34	TAD M31	
1Ø11	3Ø42	DCA C3	
1Ø12	144Ø	NXT, TAD I CI	/LOOK AT FIRST 2 CHARS.
1Ø13	765Ø	SNA CLA	/ OF FILE NAME
1Ø14	2Ø66	ISZ FNO	/NO NAME
1Ø15	1Ø27	TAD P5	
1Ø16	1Ø4Ø	TAD CI	
1Ø17	3Ø4Ø	DCA CI	
1Ø2Ø	2Ø42	ISZ C3	
1Ø21	5226	JMP .+5	
1Ø22	1Ø4Ø	TAD CI	
1Ø23	1Ø2Ø	TAD P3	
1Ø24	3Ø4Ø	DCA CI	
1Ø25	521Ø	JMP NXT-2	

1026	2041		ISZ C2	
1027	5212		JMP NXT	
1030	1066		TAD FNO	
1031	4776		JMS OUTT	/TYPE NO. OF FREE FILES
1032	1060		TAD SP	
1033	4775		JMS TYPE	
1034	1774		TAD F	
1035	4775		JMS TYPE	
1036	1060		TAD SP	
1037	4775		JMS TYPE	
1040	1075		TAD COL	
1041	4775		JMS TYPE	
1042	1046		TAD ASAMBF	/INIT. SAM POINTER
1043	3040		DCA CI	
1044	1105		TAD NSAM	/INIT. SAM BUFF. COUNT
1045	7112		CLL RTR	
1046	7012		RTR	
1047	7012		RTR	
1050	7041		CIA	
1051	3041		DCA C2	
1052	3066		DCA FNO	
1053	1440	NXT2,	TAD I CI	/GET A SAM WORD
1054	3073		DCA TEMP	/ & STORE IT
1055	1073		TAD TEMP	
1056	0025		AND P77	/LOOK FOR XX00
1057	7650		SNA CLA	
1060	2066		ISZ FNO	/FOUND ONE
1061	1073		TAD TEMP	
1062	0026		AND P7700	/LOOK FOR 00XX
1063	7650		SNA CLA	
1064	2066		ISZ FNO	/ FOUND ONE
1065	2040		ISZ CI	
1066	2041		ISZ C2	/END OF SAMS ?
1067	5253		JMP NXT2	/NO
1070	1066		TAD FNO	
1071	4776		JMS OUTT	/TYPE NO. OF FREE BLOCKS
1072	1060		TAD SP	
1073	4775		JMS TYPE	
1074	1773		TAD B	
1075	4775		JMS TYPE	
1076	4777		JMS CRLF	
1077	3047		DCA OPT	/CLEAR OPTION
1100	5772		JMP OPTN	/RETURN TO OPTION SELECTION
1101	0000	/ PRNT,	0	
1102	3142		DCA CHARS	
1103	1142		TAD CHARS	
1104	0026		AND P7700	
1105	7112		RTR CLL	

SEARCH
 BOTTOM
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1106	7012	RTR	
1107	7012	RTR	
1110	1024	TAD P200	
1111	1023	TAD P40	
1112	4775	JMS TYPE	
1113	1142	TAD CHARS	
1114	0025	AND P77	
1115	1024	TAD P200	
1116	1023	TAD P40	
1117	4775	JMS TYPE	
1120	5701	JMP I PRNT	
/			
1121	0000	DNDATA, 0	
1122	1066	TAD FNO	
1123	4776	JMS OUTT	/TYPE FILE NO.
1124	1075	TAD COL	
1125	4775	JMS TYPE	
1126	1040	TAD CI	
1127	1020	TAD P3	
1130	3042	DCA C3	
1131	1442	TAD I C3	
1132	4771	JMS ABFSU	/TYPE FILE CLASSIFICATION
1133	1116	TAD FLD	
1134	4775	JMS TYPE	/TYPE FIELD
1135	1040	TAD CI	
1136	7001	IAC	
1137	3042	DCA C3	
1140	1442	TAD I C3	
1141	4776	JMS OUTT	/START ADDR.
1142	1131	TAD COMMA	
1143	4775	JMS TYPE	
1144	1116	TAD FLD	
1145	4775	JMS TYPE	
1146	2042	ISZ C3	
1147	1442	TAD I C3	
1150	4776	JMS OUTT	/S. A. (ENTRY PT.)
1151	1076	TAD SCOL	
1152	4775	JMS TYPE	
1153	5721	JMP I DNDATA	

1171	1676
1172	0250
1173	1736
1174	1737
1175	0342
1176	0463
1177	0351

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1200	4777	SEARCH, JMS CRLF
1201	3101	DCA WORD1
1202	3102	DCA WORD2

1203	4342		JMS GET
1204	5201		JMP SEARCH+1
1205	5244		JMP SERCH /BLANK FILE REQUESTED
1206	7106		RTL CLL
1207	7006		RTL
1210	7006		RTL
1211	3101		DCA WORD1 /SAVE FIRST LEFT HALF
1212	4342		JMS GET
1213	5236		JMP WHICH
1214	5244		JMP SERCH /ONE CHAR. FILE NAME
1215	1101		TAD WORD1 /ONE CHAR. FILE NAME
1216	3101		DCA WORD1 /SAVE FIRST PACKED WORD
1217	4342		JMS GET
1220	5236		JMP WHICH
1221	5244		JMP SERCH /TWO CHAR. FILE NAME
1222	7106		RTL CLL
1223	7106		RTL CLL
1224	7006		RTL
1225	3102		DCA WORD2 /SAVE SECOND LEFT HALF
1226	4342		JMS GET
1227	5236		JMP WHICH
1230	5244		JMP SERCH /THREE CHAR. FILE NAME
1231	1102		TAD WORD2
1232	3102		DCA WORD2 /SAVE SECOND PACKED WORD
1233	4342		JMS GET /LOOKING FOR CR
1234	5236		JMP WHICH / IF NOT TYPED PREVIOUSLY
1235	5244		JMP SERCH /FOUND CR
1236	7200	WHICH,	CLA /RO. OR EXTRA CHAR.
1237	1060		TAD SP
1240	4776		JMS TYPE
1241	1077		TAD QMARK
1242	4776		JMS TYPE
1243	5200		JMP SEARCH
1244	1020	/	
1245	1043	SERCH,	TAD P3
1246	3040		TAD ADNBF
1247	1125		DCA C1 /BUFFER POINTR
1250	4776		TAD LF
1251	3066		JMS TYPE
1252	1025		DCA FNO /INIT. FILE NO.
1253	7041		TAD P77
1254	3041		CIA
1255	1034		DCA C2 /FILE COUNT
1256	3065		TAD M31
1257	1101		DCA FNOK
1260	1110		TAD WORD1 /COMPARE WITH PREVIOUS FILE NAME
1261	7440		TAD LWORD1
1262	5265		SZA
1263	1102		JMP LST
1264	1111		TAD WORD2
			TAD LWORD2

1265	3112	LST,	DCA LAST	/=0; IF WORD = LWORD
1266	1440	TEST,	TAD I C1	/GET A FILE NAME
1267	2040		ISZ C1	/ & COMPARE
1270	2066		ISZ FNO	/WITH WORD1, 2
1271	7041		CIA	
1272	1101		TAD WORD1	
1273	7640		SZA CLA	
1274	5302		JMP NOTYET	/NOT EQUAL TO WORD1
1275	1440		TAD I C1	
1276	7041		CIA	
1277	1102		TAD WORD2	
1300	7650		SNA CLA	
1301	5315		JMP CHK	/MATCH FOUND
1302	2065	NOTYET,	ISZ FNOK	
1303	5307		JMP THSDN	
1304	1034		TAD M31	
1305	3065		DCA FNOK	
1306	1020		TAD P3	
1307	1030	THSDN,	TAD P4	
1310	1040		TAD C1	
1311	3040		DCA C1	
1312	2041		ISZ C2	
1313	5266		JMP TEST	
1314	5236		JMP WHICH	
1315	1112	CHK,	TAD LAST	
1316	7640		SZA CLA	/A REPEAT FILE NAME ?
1317	5324		JMP SETLF	/NO
1320	1113		TAD LFNO	/YES
1321	1066		TAD FNO	/IS THIS THE FILE NO. SEARCHED
1322	7750		SNA SPA CLA	/FOR LAST TIME ?
1323	5302		JMP NOTYET	/SAME FILE NO. FOUND
1324	1066	SETLF,	TAD FNO	/SAVE
1325	7041		CIA	
1326	3113		DCA LFNO	/-(FILE NO.)
1327	1101		TAD WORD1	
1330	7041		CIA	
1331	3110		DCA LWORD1	/-(WORD1)
1332	1102		TAD WORD2	
1333	7041		CIA	
1334	3111		DCA LWORD2	/-(WORD2)
1335	1027		TAD P5	
1336	3115		DCA SSS	
1337	4775		JMS DNDATA	
1340	4774		JMS SRCH	/GET & TYPE FILE STATISTICS
1341	5200		JMP SEARCH	

/
 /FETCH A CHAR. FROM K/B
 /IF ↑ L RETURN TO OPTION
 /IF RO. PC=PC+1 [AC] =0
 /IF CR PC=PC+2 [AC] =0
 /IF ↑ C RETURN TO MONITOR

/ELSE PC=PC+3 [AC] =STRIPPED ASCII+40

1342	0000	GET,	0
1343	6031		KSF
1344	5343		JMP .-1
1345	6036		KRB
1346	6046		TLS
1347	3100		DCA CHAR
1350	1100		TAD CHAR
1351	4773		JMS CTRL /↑ L ?
1352	1062		TAD MCR
1353	7450		SNA / CR ?
1354	5367		JMP GOTCR
1355	1063		TAD MRO
1356	7450		SNA /RUBOUT ?
1357	5742		JMP I GET
1360	2342		ISZ GET
1361	1064		TAD MCTRLC
1362	7650		SNA CLA /↑ C ?
1363	5514		JMP I MONRET
1364	1100		TAD CHAR
1365	1023		TAD P40
1366	0025		AND P77
1367	2342	GOTCR,	ISZ GET
1370	5742		JMP I GET

1373	0334
1374	0675
1375	1121
1376	0342
1377	0351

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1400	4777	DUMP,	JMS GET
1401	5776		JMP WHAT /R. O.
1402	5775		JMP OPTN-2
1403	1117		TAD M20
1404	3107		DCA SAMN
1405	1107		TAD SAMN
1406	7550		SNA SPA
1407	5776		JMP WHAT /ILLEGAL I/P (ASCII<261)
1410	7041		CIA
1411	1105		TAD NSAM
1312	7710		SPA CLA
1413	5776		JMP WHAT /TOO LARGE SAM NO. ASKED FOR
1414	1107		TAD SAMN
1415	7112		CLL RTR /GET-START OF SAM BLK. IN CORE
1416	7012		RTR
1417	7012		RTR
1420	1037		TAD M200
1421	1046		TAD ASAMBF

1422	3040		DCA C1	
1423	1037		TAD M200	
1424	3041		DCA C2	
1425	4774		JMS CRLF	
1426	4774		JMS CRLF	
1427	1031	DI,	TAD M8	
1430	3042		DCA C3	
1431	6031		KSF	/RETURN TO OPTION ?
1432	7410		SKP	
1433	5773		JMP OPTN-4	/YES
1434	1440		TAD I C1	/GET A SAM WORD
1435	2040		ISZ C1	
1436	4772		JMS OUTT	
1437	1060		TAD SP	
1440	4771		JMS TYPE	
1441	1060		TAD SP	
1442	4771		JMS TYPE	
1443	2041		ISZ C2	/ALL DONE ?
1444	7410		SKP	
1445	5252		JMP D2	/YES
1446	2042		ISZ C3	/END OF LINE ?
1447	5231		JMP D1+2	/NO
1450	4774		JMS CRLF	
1451	5227		JMP D1	
1452	4774	D2,	JMS CRLF	
1453	4774		JMS CRLF	
1454	3047		DCA OPT	
1455	5770		JMP OPTN	
1456	4774	/		
1456	4774	HALT,	JMS CRLF	
1457	4777		JMS GET	/FIRST DIGIT
1460	5776		JMP WHAT	
1461	5776		JMP WHAT	
1462	1117		TAD M20	
1463	7106		CLL RTL	
1464	7004		RAL	
1465	3066		DCA FNO	
1466	4777		JMS GET	/SECOND DIGIT
1467	5776		JMP WHAT	
1470	5776		JMP WHAT	
1471	1117		TAD M20	
1472	1066		TAD FNO	
1473	3066		DCA FNO	/STORE FILE NO.
1474	1066		TAD FNO	
1475	7041		CIA	
1476	3067		DCA MFNO	
1477	3040		DCA C1	
1500	1066		TAD FNO	
1501	1034		TAD M31	
1502	7510		SPA	
1503	5310		JMP WSET	

1574 0351
1575 0246
1576 0273
1577 1342

PAGE

1600 1022
1601 1346
1602 3041
1603 1034
1604 3042
1605 1441
1606 0025
1607 1067
1610 7650
1611 5220
1612 1041
1613 1027
1614 3041
1615 2042
1616 5205
1617 5777

/
FINDIT,

TAD P7
TAD WCORE
DCA C2
TAD M31
DCA C3
TAD I C2
AND P77
TAD MFNO
SNA CLA
JMP GOTIT
TAD C2
TAD P5
DCA C2
ISZ C3
JMP FIND
JMP WHAT

FIND,

/LOOK FOR FILE NO.

/ILLEGAL FILE NO.

1620 4776
1621 1076
1622 4775
1623 1144
1624 7640
1625 5777
1626 4774
1627 5777
1630 5777
1631 1122
1632 7640
1633 5777
1634 4774
1635 5777
1636 5777
1637 1121
1640 7640
1641 5777
1642 4774
1643 5777
1644 5777
1645 1120
1646 7640
1647 5777
1650 4774
1651 5777
1652 5777

/
/ GOTIT,

JMS DATA
TAD SCOL
JMS TYPE
TAD SAVEF
SZA CLA
JMP WHAT
JMS GET
JMP WHAT
JMP WHAT
TAD M27
SZA CLA
JMP WHAT
JMS GET
JMP WHAT
JMP WHAT
TAD M26
SZA CLA
JMP WHAT
JMS GET
JMP WHAT
JMP WHAT
TAD M23
SZA CLA
JMP WHAT
JMS GET
JMP WHAT
JMP WHAT

/NON-SAVE FILE ASKED FOR
/LOOK FOR 7636 FROM K/B

/7 ?

/6 ?

/3 ?

1504	1034		TAD M31	
1505	7500		SMA	
1506	2040		ISZ C1	
1507	2040		ISZ C1	/=(DN NO.-1)
		/		
1510	7200	WSET,	CLA	
1511	1040		TAD C1	/SET CORE ADDR.
1512	7112		CLL RTR	
1513	7012		RTR	
1514	7012		RTR	
1515	1043		TAD ADNBF	
1516	3767		DCA WCORE	
1517	1040		TAD C1	
1520	7440		SZA	
1521	5327		JMP WSET2	
1522	1145		TAD P201	/C=0 ; DN 1
1523	3766		DCA WLINK	
1524	1021		TAD P177	
1525	3765		DCA WBLOK	
1526	5764		JMP FINDIT	
1527	1036	WSET2,	TAD M2	
1530	7440		SZA	
1531	5342		JMP WSET1	
1532	3766		DCA WLINK	/C=2 ; DN 3
1533	1105		TAD NSAM	
1534	1035		TAD M4	
1535	7740		SMA SZA CLA	/DISC OR DECTAPE ?
1536	1027		TAD P5	/DECTAPE
1537	1146		TAD P202	/DISC
1540	3765		DCA WBLOK	
1541	5764		JMP FINDIT	
1542	7001	WSET1,	IAC	
1543	7640		SZA CLA	
1544	5776		JMP WHAT	/SOFTWARE ERROR
1545	1145		TAD P201	
1546	3765		DCA WBLOK	
1547	1105		TAD NSAM	
1550	1035		TAD M4	
1551	7740		SMA SZA CLA	/DISC OR DECTAPE ?
1552	1027		TAD P5	/DECTAPE
1553	1146		TAD P202	/DISC
1554	3766		DCA WLINK	
1555	5764		JMP FINDIT	
1564	1600			
1565	1745			
1566	1747			
1567	1746			
1570	0250			
1571	0342			
1572	0463			
1573	0244			

1653	1121	TAD M26	
1654	7640	SZA CLA	/6 ?
1655	5777	JMP WHAT	
1656	1441	TAD I C2	
1657	3042	DCA C3	/STORE S. A.
1660	1143	TAD P7636	
1661	3441	DCA I C2	
1662	4773	JMS CRLF	
1663	2041	ISZ C2	
1664	4776	JMS DATA	/TYPE NEW FILE STATISTICS
1665	4774	JMS GET	
1666	5270	JMP NOHALT	/ABANDON MODIFICATION OF DN BLK,
1667	5273	JMP MODDN	/CR=PROCEED
1670	1042	NOHALT, TAD C3	/ILLEGAL CHAR. OR SYSTEM ERROR
1671	3441	DCA I C2	/RESTORE S. A.
1672	5772	JMP OPTN	
1673	4342	MODDN, JMS WBLK	/ACTUALLY MODIFY DN BLK.
1674	5675	JMP I MONHLT	/GO TO MONITOR HALT
1675	7636	MONHLT, 7636	
		/	
1676	0000	ABFSU, 0	/DECODE 5TH WORD OF DN ENTRY
1677	3070	DCA TSTW	
1700	1070	TAD TSTW	/LOOK AT BITS 0, 1
1701	7106	CLL RTL	
1702	7004	RAL	
1703	0020	AND P3	
1704	3073	DCA TEMP	
1705	1073	TAD TEMP	
1706	1032	TAD M3	
1707	3144	DCA SAVEF	/=0 FOR A SAVE FILE
1710	1070	TAD TSTW	/LOOK AT BIT 5
1711	7106	CLL RTL	/FORM FILE CLASSIFICATION :-
1712	7006	RTL	/0 = ASCII; 1 = BINARY; 2 = FTR BIN.
1713	7006	RTL	/3 = USER; 4 = SYSTEM
1714	0022	AND P7	
1715	3070	DCA TSTW	/= FIELD
1716	7204	CLA RAL	
1717	1073	TAD TEMP	/=CLASSIFICATION
1720	1334	TAD ACLASS	
1721	3073	DCA TEMP	
1722	1070	TAD TSTW	
1723	7450	SNA	
1724	1117	TAD M20	
1725	1137	TAD C260	
1726	3116	DCA FLD	/FIELD # +260 (F#0 = 240)
1727	1473	TAD I TEMP	
1730	4775	JMS TYPE	
1731	1131	TAD COMMA	

1732	4775		JMS TYPE	
1733	5676		JMP I ABFSU	
1734	1735	ACCLASS,	CLASS	
1735	0301	CLASS,	301	/A
1736	0302	B,	302	/B
1737	0306	F,	306	/F
1740	0325		325	/U
1741	0323		323	/S

/				
1742	0000	WBLK,	0	
1743	4474		JMS I SYSIO	
1744	0005		5	/WRITE
1745	0000	WBLOK,	0	
1746	0000	WCORE,	0	
1747	0000	WLINK,	0	
1750	5270		JMP NOHALT	
1751	5742		JMP I WBLK	

1772	0250
1773	0351
1774	1342
1775	0342
1776	0400
1777	0273

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DNBF=
/