

/MEMO VERSION 84
/LAST MODIFIED ON SEPTEMBER 27, 1974 8 33
/PROGRAM TO PRODUCE MEMO'S

00020	7200	*20	
00020	7200	CHRCTR,	-600
00021	2423	OPLOC,	OP
00022	7677	MLNG,	-101
00023	0000	SPIOT,	0
00024	7200	KM600,	-600
00025	0200	K200,	200
00026	0000	CTR,	0
00027	7600	MON,	7600
00030	0763	ERRLOC,	ERROR
00031	0000	TEMP,	0
00032	0000	CHAR,	0
00033	0000	SPL,	0
00034	1000	NWLOC,	NWORD
00035	1400	LPLOC,	LNPT
00036	1200	DPLOC,	DECPT
00037	1562	SPLOC,	SP
00040	1544	TLOC,	TYP
00041	2267	NCLOC,	NCHAR
00042	7775	KM3,	-3
00043	7755	KM23,	-23
00044	7563	KM215,	-215
00045	0240	K240,	240
00046	0000	PSP,	0
00047	0000	LNCHAR,	0
00050	0000	EOFLG,	0
00051	0000	INDENT,	0
00052	1317	CRLOC,	CRLNFD
00053	0000	LLNG,	0
00054	0000	LNFD,	0
00055	0000	EXACT,	0
00056	0000	FLG,	0
00057	7777	CDIL,	-1
00060	0000	INDEV,	0
00061	7760	MASK1,	7760
00062	0017	MASK2,	0017
00063	7400	MASK3,	7400
00064	0377	MASK4,	0377
00065	3005	LBLOC,	LBUF-1
00066	3206	WBLOC,	WBUF-1
00067	2354	GRLOC,	GR
00070	3326	SPLIST,	SPACES-1
00071	7540	KM240,	-240
00072	7777	KM1,	-1
00073	2222	NGLOC,	NG
00074	0000	DIG,	0
00075	0000	CHARCT,	0
00076	7712	LINES,	-66

/=-54(10)

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00077	1267	MCRLOC,	MCR	
00100	0000	ZONK,	0	
00101	1304	WTLOC,	WT	
00102	7777	SPCR,	-1	
00103	0002	KSP,	2	
00104	1444	TTLOC,	TTYP	
00105	0006	MARG,	6	
00106	0000	LINCTR,	0	
00107	0215	K215,	215	
00110	0212	K212,	212	
00111	7776	KM2,	-2	
00112	2637	TRLOC,	TRBUF-1	
00113	1535	GBLOC,	GB	
00114	2400	HMLOC,	HM	
00115	2141	FMLOC,	FM	
00116	0001	PAG,	1	/PAGE COUNTER
00117	0777	PHFLG,	777	/ON BY DEFAULT
00120	0000	PHSKP,	0	/ON BY DEFAULT
00121	0000	PFFLG,	0	
00122	0000	PFSKP,	0	
00123	0000	MARG1,	0	
00124	0000	MARG2,	0	
00125	0002	K2,	2	
00126	0000	PTR,	0	
00127	0000	HNDLOC,	0	
00130	2616	FPLOC,	FP	
00131	0000	FSTHD,	0	
00132	0000	TAB,	0	
00133	7772	MTABS,	-6	/DEFAULT IS TAB=7 SPACES
00134	7774	KM4,	-4	
00135	7567	KM211,	-211	
00136	0000	SYLS,	0	
00137	3306	SPLLOC,	SYLPTS-1	
00140	1360	TRNLOC,	TRNSF	
00141	0422	RELOCX,	REENT	/** RELOC CHANGED TO RELOCX FOR
00142	1710	SLUFLC,	SLUF	
00143	0000	NMBR,	0	
00144	0000	FROM,	0	
00145	3777	TO,	3777	
00146	7766	KM12,	-12	
00147	7520	KM260,	-260	
00150	2370	BLINLC,	BLKIN	
00151	2211	PNLOC,	PAGNUM	
00152	1665	SLFLOC,	SLUF1	
00153	7777	INDNT,	7777	
00154	2633	NBLOC,	NAMBUF-1	
00155	0000	OUTDEV,	0	
00156	0000	ODLOC,	0	/ENTRY POINT FOR OUTPUT HANDLER
00157	0000	FILIM,	0	
00160	2461	BLKOL,	BLKO	
00161	7577	K7577,	7577	
00162	4377	BUFLOC,	HNDLR+777	

00163 7764 KM14, -14

/SYMBOL DEFINITIONS

- 4452 CRLF=JMS I CRLOC
- 4434 NXTWRD=JMS I NWLOC
- 4425 CALUSR=JMS I K200
- 4441 NXTCHR=JMS I NCLOC
- 4437 SPACE=JMS I SPLOC
- 4440 TYPE=JMS I TLOC
- 4435 LINEPT=JMS I LPLOC
- 4436 DECPNT=JMS I DPLOC
- 5430 ERRMES=JMP I ERRLOC
- 4467 GETREC=JMS I GRLOC
- 4473 NUMGET=JMS I NGLOC
- 4477 MCRLF=JMS I MCRLOC
- 4504 PRINT=JMS I TTLOC
- 4513 GRAB=JMS I GBLOC
- 4501 WAIT=JMS I WTLOC
- 4514 HMAR=JMS I HMLOC
- 4515 FMAR=JMS I FMLOC
- 4530 FILPAG=JMS I FPLOC
- 4551 NUMPAG=JMS I PNLOC
- 4421 OUT=JMS I OPLOC

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	0200	*200	/*****STARTING ADDRESS*****
00200	6212		CIF+10
00201	4673		JMS I K7700
00202	0010		0010 /LOCK IN USER SERVICE ROUTINE
00203	6212		CIF+10
00204	4425		CALUSR
00205	0005		0005 /CALL COMMAND DECODER
00206	2001		2001 /DEFAULT EXTENSION = .PA
00207	6211		CDF+10
00210	1670		TAD I K7617 /GET LENGTH & DEV. NO. OF INPUT FE
00211	6201		CDF
00212	3060		DCA INDEV
00213	1112		TAD TRLOC
00214	3017		DCA 17
00215	6211		CDF+10 /PROCESS OPTIONS CHOSEN
00216	1672		TAD I K7644
00217	6201		CDF
00220	3031		DCA TEMP
00221	1031		TAD TEMP
00222	0265		AND K40
00223	7650		SNA CLA /S BIT SET?
00224	5227		JMP LK /NO
00225	1264		TAD K7000 /YES REPLACE SKP AT STRATEGIC POS
00226	3663		DCA I STLOC /BY A NOP SO THAT THE PROGRAM WAITS
00227	1031	LK,	TAD TEMP /AFTER EACH PAGE
00230	0125		AND K2
00231	7650		SNA CLA /W BIT SET?
00232	5235		JMP LK2 /NO
00233	1264		TAD K7000 /YES REPLACE THE PROPER SKP BY AN
00234	3374		DCA WA /SO THAT THE PROGRAM WAITS BEFORE
00235	1031	LK2,	TAD TEMP
00236	0266		AND K400
00237	7650		SNA CLA /P BIT SET?
00240	5274		JMP CONTIN /NO
00241	4504		PRINT /YES GET THE LOWER LIMIT
00242	0622		TEXT "FROM "
00243	1715		
00244	4000		
00245	4660		JMS I IPLOC /GET TYPED NUMBER
00246	7041		CIA /FORM THE NEGATIVE
00247	3032		DCA CHAR / (DELAY PUTTING IT IN 'FROM')
00250	4504		PRINT /GET UPPER LIMIT
00251	2417		TEXT "TO "
00252	4000		
00253	4660		JMS I IPLOC /GET TYPED NUMBER
00254	7041		CIA /FORM THE NEGATIVE
00255	7440		SZA
00256	3145		DCA TO
00257	5274		JMP CONTIN
00260	2526	IPLOC,	INPT
00261	1552	PNFLOC,	PNUMFX

00262	0414	BR ILOC,	BREAK1	
00263	2161	STLOC,	STOP	
00264	7000	K7000,	7000	
00265	0040	K40,	40	
00266	0400	K400,	400	
00267	0527	DEFLOC,	DEFAULT	
00270	7617	K7617,	7617	
00271	7620	K7620,	7620	
00272	7644	K7644,	7644	
00273	7700	K7700,	7700	
00274	1060	CONTIN,	TAD INDEV	
00275	0061		AND MASK1	/ISOLATE FILE LENGTH
00276	7133		STL IAC RTR	
00277	7133		STL IAC RTR	/GET TWO'S COMPLEMENT
00300	1057		TAD CDIL	
00301	3057		DCA CDIL	
00302	3131		DCA FSTHD	
00303	1060		TAD INDEV	
00304	0062		AND MASK2	/ISOLATE DEVICE NUMBER
00305	3060		DCA INDEV	
00306	6211		CDF+10	
00307	1671		TAD I K7620	/GET STARTING BLOCK
00310	6201		CDF	
00311	3550		DCA I BLINLC	
00312	1060		TAD INDEV	
00313	6212		CIF+10	
00314	4425		CALUSR	
00315	0001		0001	/GET DEVICE HANDLER
00316	3401	H,	HNDLR+1	
00317	5430		ERRMES	
00320	1316		TAD H	
00321	3127		DCA HNDLOC	
00322	1134		TAD KM4	
00323	3026		DCA CTR	
00324	1154		TAD NBLOC	
00325	3011		DCA 11	
00326	1161		TAD K7577	
00327	3010		DCA 10	
00330	6211		CDF+10	
00331	1410		TAD I 10	
00332	6201		CDF	
00333	0062		AND MASK2	/ISOLATE OUTPUT DEV
00334	7450		SNA	/ANY DEVICE SPECIFIED?
00335	5667		JMP I DEFLOC	/NO USE DEFAULT
00336	3155		DCA OUTDEV	
00337	6211	NPUT,	CDF+10	/PUT FILE NAME IN
00340	1410		TAD I 10	/BUFFER
00341	6201		CDF	
00342	3411		DCA I 11	
00343	2026		ISZ CTR	
00344	5337		JMP NPUT	

00345	1155		TAD OUTDEV	
00346	6212		CIF+10	
00347	4425		CALUSR	
00350	0001		0001	/PULL IN HANDLER
00351	4001	OH,	HNDLR+401	
00352	5430		ERRMES	
00353	1155		TAD OUTDEV	
00354	6212		CIF+10	
00355	4425		CALUSR	
00356	0003		0003	
00357	2634	FBO,	NAMBUF	/GETS STARTING BLOCK
00360	0000	AFL,	Ø	/GETS AVAILABLE FILE LENGTH
00361	5430		ERRMES	
00362	1357		TAD FBO	
00363	3560		DCA I BLKOL	
00364	1360		TAD AFL	
00365	7440		SZA	/FILE STRUCTURED DEVICE?
00366	1072		TAD KM1	/YES
00367	3157		DCA FILIM	/NO
00370	1351		TAD OH	/GET ENTRY POINT
00371	3156	OHGET,	DCA ODLOC	
00372	4467		GETREC	
00373	4661		JMS I PNFLOC	
00374	5662	WA,	JMP I BR1LOC	/CHANGED TO NOP IF W OPTION IS CH
00375	4504		PRINT	
00376	2431		TEXT "TYPE RETURN WHEN READYZ "	
00377	2005			
00400	4022			
00401	0524			
00402	2522			
00403	1640			
00404	2710			
00405	0516			
00406	4022			
00407	0501			
00410	0431			
00411	4543			
00412	0000			
00413	4501		WAIT	
00414	1032	BREAK1,	TAD CHAR	
00415	3144		DCA FROM	
00416	1065	BREAK,	TAD LBLOC	
00417	3011		DCA 11	
00420	1070		TAD SPLIST	
00421	3012		DCA 12	
00422	2056	REENT,	ISZ FLG	
00423	4441		NXTCHR	/READ FIRST CHARACTER
00424	1135		TAD KM211	
00425	7450		SNA	/IS IT A TAB?
00426	2132		ISZ TAB	/YES SET FLAG
00427	1134		TAD KM4	
00430	7450		SNA	/IS IT A CARRIAGE RETURN?

00431	5316		JMP CRS	
00432	1043		TAD KM23	
00433	7650		SNA CLA	/IS IT A SPACE?
00434	2051		ISZ INDENT	/YES THERE IS AN INDENTATION
00435	3046	REINIT,	DCA PSP	
00436	3055	GWORD,	DCA EXACT	
00437	3047		DCA LNCHAR	
00440	4434		NXTWRD	/GET THE NEXT WORD
00441	4343		JMS LNINIT	
00442	7410		SKP	
00443	4434	GWORD1,	NXTWRD	
00444	1046		TAD PSP	
00445	1075	PROC,	TAD CHARCT	
00446	1053		TAD LLNG	
00447	3031		DCA TEMP	
00450	1031		TAD TEMP	
00451	1022		TAD MLNG	
00452	7500		SMA	/WILL IT FIT ON THIS LINE?
00453	5726		JMP I EOLOC	/NO DUMP THIS LINE
00454	7200		CLA	/YES
00455	4361		JMS ADDWRD	/ADD IT TO THE LINE BUFFER
00456	1033		TAD SPL	
00457	3046		DCA PSP	/UPDATE PSP
00460	1054		TAD LNFD	
00461	7640		SZA CLA	/LINE-FEED FLAG SET?
00462	5314		JMP CRS0	/YES DETERMINE NUMBER OF LF'S
00463	1132		TAD TAB	
00464	1051		TAD INDENT	
00465	7640		SZA CLA	/IDENTATION NEXT?
00466	5320		JMP IND	/YES
00467	1050		TAD EOF LG	
00470	7650		SNA CLA	/END OF FILE?
00471	5243		JMP GWORD1	/NO PROCEED AS USUAL
00472	4530		FILPAG	/FINISH UP THE LAST PAGE
00473	1313	FIN,	TAD EOFCHR	/AND CLOSE THE FILE
00474	4421		OUT	
00475	1024		TAD KM600	/INCOMPLETE PAGE LEFT?
00476	7041		CIA	
00477	1020		TAD CHRCTR	
00500	7640		SZA CLA	
00501	4712		JMS I WRLOC	/YES
00502	1155		TAD OUTDEV	
00503	6212		CIF+10	
00504	4425		CALUSR	
00505	0004		0004	
00506	2634		NAMBUF	
00507	0000	BLCT,	0	
00510	5430		ERRMES	
00511	5427		JMP I MON	/AND GO HOME
00512	2445	WRLOC,	WRITE	
00513	0232	EOFCHR,	232	

00514	3054	CRS0,	DCA LNFD	/RESET LINE-FEED FLAG
00515	4435		LINEPT	
00516	4452	CRS,	CRLF	
00517	5216		JMP BREAK	
00520	4435	IND,	LINEPT	
00521	1065		TAD LBLOC	
00522	3011		DCA 11	
00523	1070		TAD SPLIST	
00524	3012		DCA 12	
00525	5235		JMP REINIT	
00526	0600	EOL0C,	EOL	
00527	6212	DEFAULT,	CIF+10	
00530	4425		CALUSR	
00531	0001		0001	
00532	2424		DEVICE TTY	
00533	3100			
00534	4001		HNDLR+401	
00535	5430		ERRMES	
00536	1333		TAD .-3	
00537	3155		DCA OUTDEV	
00540	1334		TAD .-4	
00541	5742		JMP I .+1	
00542	0371		OHGET	
00543	0000	LNINIT,	0	
00544	1153		TAD INDNT	
00545	7040		CMA	
00546	3053		DCA LLNG	
00547	1053		TAD LLNG	
00550	3047		DCA LNCHAR	
00551	1153		TAD INDNT	
00552	3031		DCA TEMP	
00553	2031	INREP,	ISZ TEMP	
00554	7410		SKP	
00555	5743		JMP I LNINIT	
00556	1045		TAD K240	
00557	3411		DCA I 11	
00560	5353		JMP INREP	
00561	0000	ADDWRD,	0	/ROUTINE TO ADD A WORD TO THE CURRENT LINE
00562	1031		TAD TEMP	
00563	3053		DCA LLNG	
00564	1066		TAD WBLOC	
00565	3013		DCA 13	
00566	1046		TAD PSP	
00567	7450		SNA	
00570	5376		JMP DOWN	
00571	1072		TAD KM1	
00572	3412		DCA I 12	

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00573	3411		DCA I 11
00574	2023		ISZ SPTOT
00575	2047		ISZ LNCHAR
00576	4540	DOWN,	JMS I TRNLOC
00577	5761		JMP I ADDWRD

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00600	7650	EOL,	SNA CLA	/EXACT LINE?
00601	5315		JMP OK1	/YES SET FLAG
00602	1075		TAD CHARCT	/NO
00603	1046		TAD PSP	
00604	7041		CIA	
00605	1031		TAD TEMP	
00606	1022		TAD MLNG	
00607	3031		DCA TEMP	
00610	1136		TAD SYLS	
00611	7450		SNA	/ANY SYLLABLES?
00612	5274		JMP OP1	
00613	7041		CIA	
00614	3100		DCA ZONK	
00615	1100		TAD ZONK	
00616	7041		CIA	
00617	1137		TAD SPLLOC	
00620	3126	SYLREP,	DCA PTR	
00621	1046		TAD PSP	
00622	7001		IAC	
00623	1526		TAD I PTR	
00624	1031		TAD TEMP	
00625	7540		SMA SZA	/DOES THE LONGEST SUB-WORD FIT?
00626	7410		SKP	/NO RECURSE
00627	5236		JMP EUREKA	/YES
00630	2100		ISZ ZONK	/ANY SUB-WORDS OF THE SUB-WORD?
00631	7410		SKP	/YES
00632	5274		JMP OP1	/NO
00633	7240		STA	
00634	1126		TAD PTR	
00635	5220		JMP SYLREP	
00636	3100	EUREKA,	DCA ZONK	
00637	1075		TAD CHARCT	
00640	7041		CIA	
00641	1526		TAD I PTR	
00642	3360		DCA SHUFCT	
00643	1526		TAD I PTR	
00644	3075		DCA CHARCT	
00645	4761		JMS I ADLOC	
00646	1357		TAD K255	
00647	3411		DCA I 11	
00650	2047		ISZ LNCHAR	
00651	3075		DCA CHARCT	
00652	1066		TAD WBLOC	
00653	3015		DCA 15	/MAKE REMAINING PART OF WORD INTO
00654	1413		TAD I 13	/TAKE CARE OF HYPHENATED WORDS
00655	1362		TAD KM255	
00656	7450		SNA	/WAS THE WORD SEPARATED AT A HYPHEN
00657	5265		JMP SHF1	
00660	1357		TAD K255	/NO KEEP LAST CHARACTER
00661	7410		SKP	
00662	1413	SHUFFL,	TAD I 13	

00663	3415		DCA I 15	
00664	2075		ISZ CHARCT	
00665	2360	SHF1,	ISZ SHUFCT	
00666	5262		JMP SHUFFL	
00667	1100		TAD ZONK	
00670	7450		SNA	
00671	5317		JMP OK	
00672	3031		DCA TEMP	
00673	5275		JMP OUTPUT	
00674	7200	OP1,	CLA	
00675	1354	OUTPUT,	TAD FLIP	
00676	7650		SNA CLA	
00677	5331		JMP BACKWD	
00700	3354		DCA FLIP	
00701	1070	SPNOCH,	TAD SPLIST	
00702	3012		DCA 12	
00703	1023		TAD SPTOT	
00704	7041		CIA	
00705	3026		DCA CTR	
00706	2412	SPINC,	ISZ I 12	/INCREMENT SPACES TO FILL LINE
00707	2031		ISZ TEMP	
00710	7410		SKP	
00711	5317		JMP OK	/FINISHED
00712	2026		ISZ CTR	
00713	5306		JMP SPINC	
00714	5301		JMP SPNOCH	
00715	4761	OK1,	JMS I ADLOC	
00716	2055		ISZ EXACT	
00717	4435	OK,	LINEPT	
00720	1070		TAD SPLIST	
00721	3012		DCA 12	
00722	1065		TAD LBLOC	
00723	3011		DCA 11	
00724	1055		TAD EXACT	
00725	7640		SZA CLA	
00726	5756		JMP I GWLOC	
00727	4753		JMS I LNILOC	
00730	5755		JMP I PRCLOC	
00731	2354	BACKWD,	ISZ FLIP	/ESSENTIALLY WHAT'S GOING ON HERES
00732	1023	ZNOCH,	TAD SPTOT	/THAT I'M PADDING OUT EVERY OTHER
00733	7041		CIA	/WITH BLANKS FROM RIGHT TO LEFT IN
00734	3026		DCA CTR	/OF FROM LEFT TO RIGHT; IT'S MORE
00735	1070		TAD SPLIST	/ING TO THE EYE THAT WAY
00736	1023		TAD SPTOT	
00737	3126		DCA PTR	
00740	2526	ZINC,	ISZ I PTR	
00741	2031		ISZ TEMP	
00742	7410		SKP	
00743	5317		JMP OK	
00744	2026		ISZ CTR	
00745	7410		SKP	
00746	5332		JMP ZNOCH	

00747 7240 STA
00750 1126 TAD PTR
00751 3126 DCA PTR
00752 5340 JMP ZINC

00753 0543 LNILOC, LNINIT
00754 0000 FLIP, 0
00755 0445 PRCLC, PROC
00756 0436 GWLOC, GWORD
00757 0255 K255, 255
00760 0000 SHUFCT, 0
00761 0561 ADLOC, ADDWRD
00762 7523 KM255, -255

00763 6201 ERROR, CDF /ERROR HANDLER FOR USR
00764 6212 CIF+10
00765 4425 CALUSR
00766 0007 0007
00767 0000 N, 0
00770 7402 HLT
00771 5427 JMP I MON

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01000	0000	NWORD,	Ø	/ROUTINE TO GET THE NEXT WORD IN THE INPUT
01001	7200		CLA	/STREAM
01002	3033		DCA SPL	
01003	1066		TAD WBLOC	
01004	3010		DCA 10	
01005	3075		DCA CHARCT	
01006	3136		DCA SYLS	
01007	1137		TAD SPLLOC	
01010	3015		DCA 15	
01011	3333		DCA SPCTNW	
01012	1051		TAD INDENT	
01013	7650		SNA CLA	
01014	5227		JMP TABCHK	
01015	3051		DCA INDENT	
01016	1045	REP1,	TAD K240	
01017	2075		ISZ CHARCT	
01020	3410		DCA I 10	
01021	4441		NXTCHR	
01022	1071		TAD KM240	
01023	7650		SNA CLA	
01024	5216		JMP REP1	
01025	1032		TAD CHAR	
01026	5254		JMP LOOK	
01027	1132	TABCHK,	TAD TAB	
01030	7650		SNA CLA	/HAS A TAB BEEN FOUND?
01031	5245		JMP NEXT1	/NO
01032	1133		TAD MTABS	/YES PUT IN SPACES
01033	7450		SNA	/MORE THAN ONE SPACE?
01034	5216		JMP REP1	/NO
01035	3031		DCA TEMP	
01036	1045	TABREP,	TAD K240	
01037	2075		ISZ CHARCT	
01040	3410		DCA I 10	
01041	2031		ISZ TEMP	
01042	5236		JMP TABREP	
01043	3132		DCA TAB	/RESET THE FLAG
01044	5216		JMP REP1	
01045	1056	NEXT1,	TAD FLG	
01046	7650		SNA CLA	/NEXT CHARACTER IN CHAR?
01047	5253		JMP NEXT	/NO PROCEED
01050	3056		DCA FLG	/YES RESET FLAG
01051	1032	NEXT2,	TAD CHAR	/GET NEXT CHAR
01052	5254		JMP LOOK	/PROCEED
01053	4441	NEXT,	NXTCHR	
01054	1044	LOOK,	TAD KM215	
01055	7450		SNA	/CARRIAGE RETURN?
01056	5350		JMP CR	/YES
01057	1043		TAD KM23	/NO
01060	7450		SNA	/SPACE?
01061	5334		JMP SPC	/YES

01062	1072		TAD KM1	/NO
01063	7450		SNA	/EXCLAMATION POINT?
01064	5315		JMP ENDPNC	/YES
01065	1163		TAD KM14	/NO
01066	7450		SNA	/HYPHEN?
01067	5305		JMP HYPHEN	/YES
01070	1072		TAD KM1	/NO
01071	7450		SNA	/PERIOD?
01072	5730		JMP I PCLOC	/YES CHECK IT OUT
01073	1332		TAD KM21	/NO
01074	7450		SNA	/QUESTION MARK?
01075	5315		JMP ENDPNC	/YES
01076	1331		TAD KM37	
01077	7650		SNA CLA	/ ?
01100	5311		JMP PART	/YES
01101	1032	REGES,	TAD CHAR	/NO JUST A REGULAR CHARACTER
01102	2075		ISZ CHARCT	/INCREMENT CHARACTER COUNT
01103	3410		DCA I 10	/PLACE CHARACTER IN WORD BUFFER
01104	5253		JMP NEXT	
01105	2136	HYPHEN,	ISZ SYLS	
01106	1075		TAD CHARCT	
01107	3415		DCA I 15	
01110	5301		JMP REGES	
01111	2136	PART,	ISZ SYLS	
01112	1075		TAD CHARCT	
01113	3415		DCA I 15	
01114	5253		JMP NEXT	
01115	1032	ENDPNC,	TAD CHAR	
01116	2075		ISZ CHARCT	/INCREMENT CHARACTER COUNT
01117	3410		DCA I 10	/PLACE CHARACTER IN WORD BUFFER
01120	4441		NXTCHR	/GET NEXT CHARACTER
01121	1044		TAD KM215	/CARRIAGE RETURN?
01122	7640		SZA CLA	
01123	5326		JMP IG	/NO PROCEED AS USUAL
01124	2033		ISZ SPL	/YES INCREMENT SPACE COUNT
01125	5350		JMP CR	/TREAT LIKE OTHER CR'S
01126	1032	IG,	TAD CHAR	
01127	5254		JMP LOOK	
01130	1600	PCLOC,	PERCHK	
01131	7741	KM37,	-37	
01132	7757	KM21,	-21	
01133	0000	SPCTNW,	0	
01134	2333	SPC,	ISZ SPCTNW	
01135	4441		NXTCHR	
01136	1044		TAD KM215	
01137	7450		SNA	/CARRIAGE RETURN?
01140	5350		JMP CR	/YES TREAT AS SUCH
01141	1043		TAD KM23	/NO

01142	7650		SNA CLA	/ANOTHER SPACE?
01143	5334		JMP SPC	/NO LOOK FOR MORE
01144	1333		TAD SPCTNW	
01145	3033		DCA SPL	/FIX UP SPACE COUNT
01146	2056		ISZ FLG	
01147	5600		JMP I NWORD	
01150	2033	CR,	ISZ SPL	/INCREMENT SPACE COUNTER
01151	2056	CR 1,	ISZ FLG	/THROW UP FLAG (NEXT CHAR IN CHAR)
01152	4441		NXTCHR	/GET THE NEXT CHARACTER
01153	1135		TAD KM211	
01154	7450		SNA	/TAB?
01155	2132		ISZ TAB	/YES SET FLG
01156	1134		TAD KM4	
01157	7450		SNA	/CARRIAGE RETURN?
01160	2054		ISZ LNFD	/YES SET FLAG
01161	1043		TAD KM23	
01162	7650		SNA CLA	/SPACE?
01163	2051		ISZ INDENT	/YES THROW UP FLAG
01164	5600		JMP I NWORD	
01165	4473	NL,	NUMGET	/GET ARGUMENT
01166	7450		SNA	/0 (OR MISSING)?
01167	1374		TAD K102	/YES DEFAULT IS 66(10)
01170	1163		TAD KM14	/ADJUST FOR MARGINS
01171	7041		CIA	
01172	3076		DCA LINES	<i>lines per page</i>
01173	5552		JMP I SLFLOC	
01174	0102	K102,	102	

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01200	0000	DECPT,	0	/ROUTINE TO PRINT AC CONTENTS IN DECIMAL
01201	3227		DCA DTEMP	
01202	3074		DCA DIG	
01203	3260		DCA DPTFLG	
01204	1230		TAD DECLOC	
01205	3126		DCA PTR	
01206	1042		TAD KM3	
01207	3237		DCA DPCTR	
01210	1227		TAD DTEMP	
01211	1526	SUB,	TAD I PTR	
01212	7510		SPA	
01213	5216		JMP .+3	
01214	2074		ISZ DIG	
01215	5211		JMP SUB	
01216	2126		ISZ PTR	
01217	1526		TAD I PTR	
01220	4240		JMS DPT	
01221	2126		ISZ PTR	
01222	2237		ISZ DPCTR	
01223	5211		JMP SUB	
01224	1257		TAD K260	
01225	4421		OUT	
01226	5600		JMP I DECPT	
01227	0000	DTEMP,	0	
01230	1231	DECLOC,	+.1	
01231	6030		-1750	
01232	1750		1750	
01233	7634		-0144	
01234	0144		0144	
01235	7766		-12	
01236	0012		12	
01237	0000	DPCTR,	0	
01240	0000	DPT,	0	
01241	3227		DCA DTEMP	
01242	1074		TAD DIG	/GET DIGIT
01243	7450		SNA	/IS IT ZERO?
01244	5253		JMP ZER	/IS IT ZERO?
01245	1257	DIGPT,	TAD K260	/FORM ANSCII CODE
01246	4421		OUT	
01247	2260		ISZ DPTFLG	
01250	3074		DCA DIG	
01251	1227	DXIT,	TAD DTEMP	
01252	5640		JMP I DPT	
01253	1260	ZER,	TAD DPTFLG	/ANY DIGITS ALREADY PRINTED?
01254	7650		SNA CLA	
01255	5251		JMP DXIT	/NO NO PRINTING DONE
01256	5245		JMP DIGPT	/YES PRINT THE DIGIT
01257	0260	K260,	260	
01260	0000	DPTFLG,	0	

01261	0000	BLIP,	Ø	/ROUTINE TO PRINT CARRIAGE RETURN, LINE FE
01262	1107		TAD K215	
01263	4421		OUT	
01264	1110		TAD K212	
01265	4421		OUT	
01266	5661		JMP I BLIP	
01267	0000	MCR,	Ø	/PRINTS MULTIPLE CRLF'S; CALLED WITH
01270	7041		CIA	/NUMBER OF CRLF'S IN THE AC
01271	3100		DCA ZONK	
01272	1107		TAD K215	
01273	4421		OUT	
01274	1100		TAD ZONK	
01275	7650		SNA CLA	/ZERO?
01276	5667		JMP I MCR	/YES DONE
01277	1110	MCREP,	TAD K212	
01300	4421		OUT	
01301	2100		ISZ ZONK	
01302	5277		JMP MCREP	
01303	5667		JMP I MCR	
01304	0000	WT,	Ø	/ROUTINE TO WAIT FOR A CARRIAGE RETURN
				/CHECK FOR PARTIAL PRINTOUT
01305	1144		TAD FROM	/SO THAT YOU ONLY WAIT FOR THE
01306	7710		SPA CLA	/PAGES TO ACTUALLY BE PRINTED
01307	5704		JMP I WT	/EXIT IF FIRST PAGE NOT YET REACHED
01310	6031	W,	KSF	
01311	5310		JMP .-1	
01312	6036		KRB	
01313	1044		TAD KM215	
01314	7640		SZA CLA	
01315	5310		JMP W	
01316	5704		JMP I WT	
01317	0000	CRLNFD,	Ø	
01320	7200		CLA	
01321	1102		TAD SPCR	
01322	3100		DCA ZONK	
01323	4261	WIEDER,	JMS BLIP	
01324	2106		ISZ LINCTR	
01325	7410		SKP	
01326	5332		JMP INJACK	
01327	2100		ISZ ZONK	
01330	5323		JMP WIEDER	
01331	5717		JMP I CRLNFD	
01332	4515	INJACK,	FMAR	/PRINT THE PAGE FOOT AND MARGIN
01333	4514		HMAR	
01334	5717		JMP I CRLNFD	
01335	4473	SPCC,	NUMGET	/GET THE NUMBER FOLLOWING IT
01336	7450		SNA	/ZERO?

01337	7001		IAC	/YES DEFAULT IS ONE
01340	7041		CIA	/FORM THE NEGATIVE
01341	3357		DCA CSPCT	/SET UP COUNTER
01342	4435		LINEPT	/PRINT THE PENDING LINE
01343	3047		DCA LNCHAR	
01344	3053		DCA LLNG	
01345	1102		TAD SPCR	
01346	3026		DCA CTR	/SAVE OLD SPCR
01347	7240		STA	/GET -1
01350	3102		DCA SPCR	/ONE CR-LF AT A TIME
01351	4452	CSPR,	CRLF	
01352	2357		ISZ CSPCT	
01353	5351		JMP CSPR	
01354	1026		TAD CTR	/RESTORE SPCR
01355	3102		DCA SPCR	
01356	5542		JMP I SLUFLC	
01357	0000	CSPCT,	Ø	
01360	0000	TRNSF,	Ø	
01361	1075		TAD CHARCT	
01362	7450		SNA	
01363	5760		JMP I TRNSF	
01364	7041		CIA	
01365	3031		DCA TEMP	
01366	1413	TR1,	TAD I 13	
01367	3411		DCA I 11	
01370	2047		ISZ LNCHAR	
01371	2031		ISZ TEMP	
01372	5366		JMP TR1	
01373	5760		JMP I TRNSF	
	1400	PAGE		

01400	0000	LNPT,	Ø	/ROUTINE TO PRINT THE NEXT LINE
01401	7200		CLA	
01402	1131		TAD FSTHD	/THIS THE FIRST HEAD?
01403	7650		SNA CLA	
01404	4514		HMAR	/YES
01405	7001		IAC	/RESET THIS FLAG
01406	3131		DCA FSTHD	
01407	1047		TAD LNCHAR	
01410	7650		SNA CLA	/ANY LINE TO BE PRINTED?
01411	5600		JMP I LNPT	/NOPE
01412	1065		TAD LBLOC	/POINTER TO LINE BUFFER
01413	3011		DCA 11	
01414	1103		TAD KSP	
01415	4437		SPACE	
01416	1047		TAD LNCHAR	
01417	7041		CIA	
01420	3031		DCA TEMP	
01421	1070		TAD SPLIST	
01422	3012		DCA 12	
01423	1411	LNOCH,	TAD I 11	
01424	7450		SNA	/IF ZERO GET NO. OF SPACES TO BE
01425	5235		JMP SPPT	
01426	4314		JMS TRTYPE	
01427	2031		ISZ TEMP	
01430	5223		JMP LNOCH	
01431	4452	RET,	CRLF	
01432	3046		DCA PSP	
01433	3023		DCA SPTOT	
01434	5600		JMP I LNPT	
01435	2031	SPPT,	ISZ TEMP	
01436	7410		SKP	
01437	5231		JMP RET	
01440	7001		IAC	
01441	1412		TAD I 12	
01442	4437		SPACE	
01443	5223		JMP LNOCH	
01444	0000	ITYP,	Ø	/SUBROUTINE TO TYPE MESSAGE FOLLOWING ITSE /MESSAGE CREATED BY PSEUDO-OP "TEXT". /THAT THE CHARACTER " " CAN'T BE USED & T /THE CHARACTERS % AND ARE TRANSLATED INO /CARRIAGE RETURN & LINE-FEED RESPECTIVELY.
01445	7240		CLA CMA	/SET AC TO -1
01446	1244		TAD ITYP	/ADD RETURN ADDRESS
01447	3014		DCA 14	
01450	1414		TAD I 14	
01451	3031		DCA TEMP	/SAVE IT
01452	1031		TAD TEMP	
01453	7012	RTR;	RTR;	RTR
01454	7012			/ROTATE 6 BITS RIB
01455	7012			
01456	4262		JMS DECODE	

01457	1031		TAD TEMP	/GET DATA AGAIN
01460	4262		JMS DECODE	/TYPE RIGHT HALF
01461	5250		JMP TTYP+4	/CONTINUE
01462	0000	DECODE, 0		/ROUTINE TO TYPE CHARACTER IN AC BITS 6-11
01463	0311		AND MASK5	/ZERO AC BITS 0-5
01464	7450		SNA	/IS IT END OF TEXT?
01465	5414		JMP I 14	/YES RETURN TO LOCATION FOLLOWING
01466	1310		TAD KM40	/SUBTRACT 40
01467	7500		SMA	/RESULT 40?
01470	5273		JMP DECODE+11	/NO
01471	1312		TAD K340	/YES ADD 340
01472	5306		JMP PRI	/PRINT
01473	1042		TAD KM3	/SUBTRACT 3
01474	7440		SZA	/IS IT ZERO?
01475	5300		JMP DECODE+16	/NO
01476	1110		TAD K212	/YES CODE 43 (OR) IS LINE FEED
01477	5306		JMP PRI	/PRINT
01500	1111		TAD KM2	
01501	7440		SZA	/IS IT ZERO?
01502	5305		JMP DECODE+23	/NO
01503	1107		TAD K215	/YES CODE 45 (OR %) IS CARRIAGE RET
01504	5306		JMP PRI	
01505	1313		TAD K245	/ADD 245 TO OTHERS
01506	4440	PRI,	TYPE	
01507	5662		JMP I DECODE	
01510	7740	KM40,	-40	
01511	0077	MASK5,	0077	
01512	0340	K340,	340	
01513	0245	K245,	245	
01514	0000	TRTYPE, 0		/ROUTINE TO PERFORM TRANSLATION
01515	3100		DCA ZONK	
01516	1112		TAD TRLOC	
01517	3016		DCA 16	
01520	1416	TREP,	TAD I 16	
01521	7450		SNA	
01522	5333		JMP NORMAL	/END OF LIST NO MATCH FOUND
01523	1100		TAD ZONK	/COMPARE
01524	7650		SNA CLA	/A MATCH?
01525	5330		JMP .+3	/YES TYPE THE SUBSTITUTE
01526	2016		ISZ 16	/NO INCREMENT POINTER
01527	5320		JMP TREP	/AND TRY AGAIN
01530	1416		TAD I 16	
01531	4421		OUT	
01532	5714		JMP I TRTYPE	
01533	1100	NORMAL,	TAD ZONK	
01534	5331		JMP .-3	
01535	0000	GB, 0		/ROUTINE TO GET NEXT NON-SPACE CHARACTER
01536	4441	GBREP,	NXTCHR	
01537	1071		TAD KM240	

01540	7650		SNA	CLA	
01541	5336		JMP	GBREP	
01542	1032		TAD	CHAR	
01543	5735		JMP	I GB	
01544	0000	TYP,	Ø		/ROUTINE TO TYPE ANSCII CHARACTER IN THE Ø
01545	6046		TLS		
01546	6041		TSF		
01547	5346		JMP	.-1	
01550	7200		CLA		
01551	5744		JMP	I TYP	
01552	0000	PNUMFX,	Ø		/SETS UP VERTICAL SPACING WHEN A
01553	1105		TAD	MARG	/PAGE NUMBER IS TYPED
01554	7110		CLL	RAR	/WE SPACE MARG1 LINES, TYPE
01555	3123		DCA	MARG1	/THE PAGE NUMBER, THEN SPACE
01556	7004		RAL		/MARG2 LINES FOR A PAGE HEAD
01557	1123		TAD	MARG1	/VICE VERSA FOR A PAGE FOOT
01560	3124		DCA	MARG2	
01561	5752		JMP	I PNUMFX	
01562	0000	SP,	Ø		/SPACE PRINTER; CALLED WITH NUMBER OF
01563	7041		CIA		/SPACES IN THE AC
01564	3100		DCA	ZONK	
01565	1045	SPREP,	TAD	K240	
01566	4421		OUT		
01567	2100		ISZ	ZONK	
01570	5365		JMP	SPREP	
01571	5762		JMP	I SP	

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01600	1075	PERCHK,	TAD CHARCT	/CHECK FOR DIRECTIONS
01601	7640		SZA CLA	/THIS THE FIRST CHARACTER IN THE B
01602	5766		JMP I EPLOC	/NO
01603	4441		NXTCHR	/YES GET NEXT CHAR
01604	3253		DCA FST 1	/SAVE THE FIRST CHARACTER AFTER THE
01605	1255		TAD TABLOC	
01606	3254		DCA P	/P POINTS TO THE OPTION TABLE
01607	1257		TAD TABLEN	
01610	3367		DCA CECT	/NUMBER OF OPTIONS
01611	4234		JMS FST	/TRY TO FIND FIRST LETTER IN TABLE
01612	4441		NXTCHR	/FIRST CHAR FOUND; TRY TO MATCH 2ND
01613	7200		CLA	
01614	2254	SCD,	ISZ P	/SET POINTER TO NEXT LOCATION IN B
01615	1032		TAD CHAR	
01616	1654		TAD I P	
01617	7650		SNA CLA	/2ND CHARACTER MATCHES?
01620	5230		JMP F	/YES
01621	2367		ISZ CECT	/NO END OF TABLE?
01622	7410		SKP	/NO
01623	5265		JMP SLUF1	/YES IGNORE THIS LINE
01624	2254		ISZ P	
01625	2254		ISZ P	/SET POINTER TO NEXT 1ST CHAR IN B
01626	4234		JMS FST	/TRY TO FIND FIRST LETTER IN TABLE
01627	5214		JMP SCD	
01630	2254	F,	ISZ P	/SET POINTER TO POINT TO PROPER
01631	1654		TAD I P	/HANDLER AND GO THERE
01632	3254		DCA P	
01633	5654		JMP I P	
01634	0000	FST,	Ø	/ROUTINE TO FIND NEXT TABLE ENTRY WHOSE FIRST
01635	1253	SRCH,	TAD FST 1	/LETTER MATCHES THE FIRST LETTER IN B
01636	1654		TAD I P	
01637	7650		SNA CLA	/A MATCH?
01640	5634		JMP I FST	/YES EXIT
01641	2254		ISZ P	/NO BUMP POINTER UP BY 3
01642	2254		ISZ P	
01643	2254		ISZ P	
01644	2367		ISZ CECT	/END OF TABLE?
01645	5235		JMP SRCH	/NO CONTINUE SEARCH
01646	1256		TAD DOT	/YES TREAT AS PART OF A WORD
01647	2075		ISZ CHARCT	
01650	3410		DCA I 10	/ADD PERIOD TO THIS WORD
01651	5652		JMP I .+1	
01652	1051		NEXT2	/GIVE NON-MATCHING CHAR TO NWORD
01653	0000	FST 1,	Ø	
01654	0000	P,	Ø	
01655	2052	TABLOC,	TABLE	
01656	0256	DOT,	256	/ASCII FOR A PERIOD
01657	7756	TABLEN,	-22	/18 OPTIONS
01660	4473	LL,	NUMGET	/GET THE NUMBER FOLLOWING IT

01661	7450		SNA	/ZERO?
01662	1267		TAD K101	/YES DEFAULT IS 65
01663	7041		CIA	
01664	3022		DCA MLNG	
01665	4357	SLUF1,	JMS SLUFR	
01666	5770		JMP I NLOC	
01667	0101	K101,	101	
01670	4435	BR,	LINEPT	/PRINT THE CURRENT LINE
01671	5310		JMP SLUF	
01672	4473	NE,	NUMGET	/GET NUMBER FOLLOWING 'NE'
01673	7650		SNA CLA	/ZERO?
01674	2143		ISZ NMBR	/YES DEFAULT IS 1
01675	7001		IAC	/GET A ONE
01676	1102		TAD SPCR	
01677	7640		SZA CLA	/IF DOUBLE SPACE MODE
01700	1143		TAD NMBR	/DOUBLE THE ARGUMENT
01701	1143		TAD NMBR	
01702	1106		TAD LINCTR	/SUBTRACT NO. OF LINES LEFT
01703	7750		SPA SNA CLA	/ENOUGH SPACE LEFT?
01704	5265		JMP SLUF1	/YES NO PROBLEM
01705	4530	BP,	FILPAG	/FINISH THIS PAGE
01706	7420		SNL	
01707	4514		HMAR	/AND TYPE THE MARGIN AND HEADING
01710	4357	SLUF,	JMS SLUFR	/THE NEXT IF NECESSARY
01711	3047		DCA LNCHAR	
01712	5713		JMP I .+1	
01713	0416		BREAK	
01714	4473	CE,	NUMGET	/GET THE NUMBER FOLLOWING 'CE'
01715	7450		SNA	/ZERO?
01716	7001		IAC	/YES DEFAULT IS ONE
01717	7040		CMA	/COMPLEMENT NUMBER
01720	3367		DCA CECT	
01721	4357		JMS SLUFR	/GET RID OF THE REST OF THIS LINE
01722	4435	CELP,	LINEPT	
01723	3047		DCA LNCHAR	
01724	3053		DCA LLNG	
01725	1065		TAD LBLOC	
01726	3011		DCA 11	
01727	1070		TAD SPLIST	
01730	3012		DCA 12	
01731	2367		ISZ CECT	/FINISHED PROCESSING CENTER'S?
01732	7410		SKP	/NO CONTINUE
01733	5541		JMP I RELOCX	/YES GO TO REENT (** RELOCX REL
01734	1022		TAD MLNG	/WE WILL TRUNCATE LINES LONGER THAN
01735	3031		DCA TEMP	/THE SPECIFIED LINE LENGTH
01736	3411		DCA I 11	/SET UP PRECEEDING SPACE FOR LINEP
01737	2047		ISZ LNCHAR	/AND COUNT IT
01740	4441	LLOOP,	NXTCHR	/READ A CHARACTER
01741	1044		TAD KM215	

01742	7650		SNA CLA	/CARRIAGE RETURN?
01743	5351		JMP CNTR	/YES END OF LINE
01744	1032		TAD CHAR	/NO PUT IT INTO THE LINE BUFFER
01745	3411		DCA I 11	
01746	2047		ISZ LNCHAR	/COUNT IT
01747	2031		ISZ TEMP	/LINE FULL?
01750	5340		JMP LLOOP	/NO CONTINUE
01751	1047	CNTR,	TAD LNCHAR	/CALCULATE SLOP
01752	1022		TAD MLNG	
01753	7041		CIA	
01754	7110		CLL RAR	/DIVIDE BY TWO
01755	3412		DCA I 12	/PUT THIS AMT IN THE SPACE BUFFER
01756	5322		JMP CELP	
01757	0000	SLUFR,	Ø	
01760	1032		TAD CHAR	
01761	1044	SLUF2,	TAD KM215	
01762	7650		SNA CLA	/CARRIAGE RETURN (END OF LINE)?
01763	5757		JMP I SLUFR	/YES
01764	4441		NXTCHR	/NO SLOUGH OFF ANOTHER CHARACTER
01765	5361		JMP SLUF2	
01766	1115	EPLOC,	ENDPNC	
01767	0000	CECT,	Ø	
01770	1151	NLOC,	CR 1	

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01771	4513	TR,	GRAB	
01772	7041		CIA	
01773	3417		DCA I 17	
01774	4441		NXTCHR	/GET ITS SUBSTITUTE
01775	3417		DCA I 17	
01776	3417		DCA I 17	
01777	7240		STA	
02000	1017		TAD 17	
02001	3017		DCA 17	
02002	5552		JMP I SLFLOC	
02003	4473	TB,	NUMGET	/GET NEW NUMBER
02004	7450		SNA	/ZERO?
02005	1212		TAD K7	/YES DEFAULT IS 7
02006	7041		CIA	/NO MAKE THE CHANGE
02007	7001		IAC	
02010	3133		DCA MTABS	
02011	5552		JMP I SLFLOC	
02012	0007	K7,	7	
02013	2117	PH,	ISZ PHFLG	/SET UP FLAG
02014	3121		DCA PFFLG	
02015	4441		NXTCHR	/EXAMINE NEXT CHAR
02016	1340		TAD KM262	
02017	3120		DCA PHSKP	/SET PHSKP FLAG
02020	5552		JMP I SLFLOC	
02021	2121	PF,	ISZ PFFLG	/SET PAGE FOOT FLAG
02022	3117		DCA PHFLG	
02023	4441		NXTCHR	/EXAMINE THE NEXT CHAR
02024	1340		TAD KM262	
02025	3122		DCA PFSKP	/SET PFSKP FLAG
02026	5552		JMP I SLFLOC	
02027	4435	SQ,	LINEPT	/FINISH THE PENDING LINE FIRST
02030	4473		NUMGET	/GET THE NUMBER FOLLOWING 'So'
02031	1103		TAD KSP	
02032	3103		DCA KSP	/MOVE THE LEFT MARGIN IN
02033	1143		TAD NMBR	/DOUBLE THE INDENTATION
02034	1143		TAD NMBR	
02035	1022		TAD MLNG	
02036	3022		DCA MLNG	/MOVE THE RIGHT MARGIN IN
02037	5542		JMP I SLUFLC	
02040	4435	RM,	LINEPT	
02041	1103		TAD KSP	/TWICE KSP MINUS 4 IS WHAT SHOULD
02042	1103		TAD KSP	/BE ADDED TO THE LINE LENGTH
02043	1134		TAD KM4	
02044	7041		CIA	/FORM 2'S COMPLEMENT
02045	1022		TAD MLNG	
02046	3022		DCA MLNG	/RESTORE LINE LENGTH
02047	1125		TAD K2	

02050	3103		DCA KSP	/RESTORE LEFT MARGIN
02051	5542		JMP I SLUFLC	
02052	7476	TABLE,	-302	/B
02053	7460		-320	/P
02054	1705		BP	
02055	7476		-302	/B
02056	7456		-322	/R
02057	1670		BR	
02060	7475		-303	/C
02061	7473		-305	/E
02062	1714		CE	
02063	7474		-304	/D
02064	7455		-323	/S
02065	2175		DS	
02066	7455		-323	/S
02067	7455		-323	/S
02070	2172		SS	
02071	7464		-314	/L
02072	7464		-314	/L
02073	1660		LL	
02074	7460		-320	/P
02075	7470		-310	/H
02076	2013		PH	
02077	7460		-320	/P
02100	7472		-306	/F
02101	2021		PF	
02102	7455		-323	/S
02103	7460		-320	/P
02104	1335		SPCC	
02105	7454		-324	/T
02106	7476		-302	/B
02107	2003		TB	
02110	7454		-324	/T
02111	7456		-322	/R
02112	1771		TR	
02113	7455		-323	/S
02114	7457		-321	/Q
02115	2027		SQ	
02116	7456		-322	/R
02117	7463		-315	/M
02120	2040		RM	
02121	7462		-316	/N
02122	7473		-305	/E
02123	1672		NE	
02124	7467		-311	/I
02125	7462		-316	/N
02126	2200		IN	
02127	7473		-305	/E
02130	7460		-320	/P
02131	2204		EP	
02132	7462		-316	/N

02133 7460 -320 /P
 02134 2206 NP
 02135 7462 -316 /N
 02136 7464 -314 /L
 02137 1165 NL

02140 7516 KM262, -262

02141 0000 FM, 0 /ROUTINE TO PRINT THE FOOT MARGIN AND PAGE

02142 1121 TAD PFFLG
 02143 7640 SZA CLA /PAGE FOOT FLAG SET?
 02144 5350 JMP FOOT /YES

02145 1105 FSKP, TAD MARG /NO

02146 4477 MCRLF
 02147 5361 JMP STOP

02150 1122 FOOT, TAD PFSKP
 02151 7640 SZA CLA /SUPPOSED TO SKIP THIS ONE?
 02152 5355 JMP FOOT 1 /NO

02153 2122 ISZ PFSKP /YES RESET THE FLAG

02154 5345 JMP FSKP

02155 1124 FOOT 1, TAD MARG2

02156 4551 NUMPAG

02157 1123 TAD MARG 1

02160 4477 MCRLF

02161 7410 STOP, SKP /CHANGED TO NOP IS S OPTION IS CH

02162 4501 WAIT

02163 1145 TAD TO

02164 1116 TAD PAG

02165 7700 SMA CLA /PARTIAL PRINTOUT COMPLETE?

02166 5771 JMP I FINLOC /YES FINISH UP

02167 2116 ISZ PAG /NO CONTINUE

02170 5741 JMP I FM

02171 0473 FINLOC, FIN

02172 7240 SS, STA /SINGLE SPACE FROM NOW ON

02173 3102 DCA SPCR

02174 5552 JMP I SLFLOC

02175 1111 DS, TAD KM2 /DOUBLE SPACE FROM NOW ON

02176 3102 DCA SPCR

02177 5552 JMP I SLFLOC

02200 4473 IN, NUMGET

02201 7040 CMA

02202 3153 DCA INDNT

02203 5552 JMP I SLFLOC

02204 2116 EP, ISZ PAG

02205 5552 JMP I SLFLOC

02206 3117 NP, DCA PHFLG

*TAD PP
OUT*

*get number of LPA's req'd
- outputs ac's worth of LPA's*

*TAD PP
OUT*

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8512T

/MEMO VERSION 84

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02207 3121
02210 5552

DCA PFFLG
JMP I SLFLOC

*Over about
Perkins file here
DCA - ant seed*

ye

Moore Business Forms, Inc. sv

8512T

02211	0000	PAGNUM, 0	0	/ACTUAL PAGE NUMBER PRINTER
02212	4477		MCRLF	
02213	1022		TAD ML NG	<i>— page width</i>
02214	7041		CIA	
02215	1103		TAD KSP	
02216	4437		SPACE	<i>JMS SP (1562)</i>
02217	1116		TAD PAG	
02220	4436		DECPNT	
02221	5611		JMP I PAGNUM	
02222	0000	NG, 0	0	/ROUTINE TO GET THE NUMERICAL ARGUMENT FOR
02223	7200		CLA	/IN-TEXT COMMANDS
02224	3074		DCA DIG	
02225	3143		DCA NMBR	
02226	4513		GRAB	
02227	1147	ZONK2, TAD	KM260	
02230	7510		SPA	/IS ASCII LESS THAN 260?
02231	5251		JMP DONE	/YES END OF NUMBER
02232	1146		TAD KM12	
02233	7500		SMA	/IS ASCII GREATER THAN 271?
02234	5251		JMP DONE	/YES END OF NUMBER
02235	1254		TAD K12	/NO GET THE DIGIT
02236	3266		DCA TP	
02237	1074		TAD DIG	
02240	1042		TAD KM3	
02241	7650		SNA CLA	/THREE DIGITS ALREADY?
02242	5622		JMP I NG	/YES RETURN ZERO
02243	4255		JMS MULT	/NO MULT OLD NUMBER BY 10
02244	1266		TAD TP	/AND ADD NEW DIGIT
02245	3143		DCA NMBR	
02246	2074		ISZ DIG	
02247	4441		NXTCHR	
02250	5227		JMP ZONK2	
02251	7200	DONE, CLA	CLA	
02252	1143		TAD NMBR	
02253	5622		JMP I NG	
02254	0012	K12, 12	12	
02255	0000	MULT, 0	0	/INEFFICIENT ROUTINE TO MULTIPLY NMBR BY 0
02256	7200		CLA	
02257	1146		TAD KM12	
02250	3265		DCA MULTCT	
02261	1143	URP, TAD	NMBR	
02262	2265		ISZ MULTCT	
02263	5261		JMP URP	
02264	5655		JMP I MULT	
02265	0000	MULTCT, 0	0	
02266	0000	TP, 0	0	
02267	0000	NCHAR, 0	0	/ROUTINE TO GET THE NEXT CHARACTER FROM IB
02270	7200		CLA	/STREAM

02271	1347	NC1,	TAD INFLG2	/3RD CHARACTER IN GROUP?
02272	7640		SZA CLA	
02273	5321		JMP NC3	/YES IT'S IN THIRD
02274	2351		ISZ BPTR	/NO INCREMENT BUFFER POINTER
02275	1346		TAD INFLG1	
02276	7640		SZA CLA	/2ND CHARACTER IN GROUP?
02277	5307		JMP NC2	/YES
02300	1751		TAD I BPTR	/NO MUST BE FIRST!
02301	0063		AND MASK3	
02302	3350		DCA THIRD	
02303	2346		ISZ INFLG1	/SET FLG TO INDICATE 1ST CHAR DONE
02304	1751	XIT,	TAD I BPTR	
02305	0064		AND MASK4	
02306	5324		JMP FINISH	
02307	1751	NC2,	TAD I BPTR	
02310	0063		AND MASK3	
02311	7112		CLL RTR	
02312	7012		RTR	
02313	1350		TAD THIRD	
02314	7012		RTR	
02315	7012		RTR	
02316	3350		DCA THIRD	/COMPLETE THIRD
02317	2347		ISZ INFLG2	/SET FLAG TO INDICATE 2ND CHAR DONE
02320	5304		JMP XIT	
02321	3346	NC3,	DCA INFLG1	/RESET FLAGS
02322	3347		DCA INFLG2	
02323	1350		TAD THIRD	
02324	1345	FINISH,	TAD KM232	/CONTROL-Z?
02325	7450		SNA	/EOF?
02326	2050		ISZ EOF LG	/YES SET FLAG
02327	1352		TAD K232	/NO RESTORE
02330	3032		DCA CHAR	
02331	2374		ISZ WCTR	/END OF RECORD?
02332	7410		SKP	/NO
02333	4467		GETREC	/YES GET ANOTHER
02334	1032		TAD CHAR	
02335	1353		TAD KM212	
02336	7450		SNA	/LINE-FEED?
02337	5271		JMP NC1	/YES IGNORE IT
02340	1111		TAD KM2	/NO
02341	7650		SNA CLA	/FORM FEED?
02342	5271		JMP NC1	/YES IGNORE IT (END OF FILE PAGE)
02343	1032		TAD CHAR	
02344	5667		JMP I NCHAR	
02345	7546	KM232,	-232	
02346	0000	INFLG1,	0	
02347	0000	INFLG2,	0	
02350	0000	THIRD,	0	
02351	0000	BPTR,	0	
02352	0232	K232,	232	
02353	7566	KM212,	-212	

02354	0000	GR,	Ø	/ROUTINE TO GET NEXT BLOCK OF INPUT FILE
02355	2057		ISZ CDIL	/EOF ALREADY REACHED?
02356	5361		JMP GR1	/NO
02357	7402		HLT	/YES BIG TROUBLE
02360	5427		JMP I MON	
02361	1162	GR1,	TAD BUFLOC	
02362	3351		DCA BPTR	
02363	1024		TAD KM600	
02364	3374		DCA WCTR	
02365	4527		JMS I HNDLOC	
02366	0200		Ø200	
02367	4400		HNDLR+1000	
02370	0000	BLKIN,	Ø	
02371	5430		ERRMES	
02372	2370		ISZ BLKIN	
02373	5754		JMP I GR	
02374	0000	WCTR,	Ø	

HANG HERE IF
INPUT FILE TOO
SHORT!

2400 PAGE

02400	0000	HM,	Ø	/ROUTINE TO PRINT THE HEAD MARGIN AND PAGE
02401	1117		TAD PHFLG	
02402	7640		SZA CLA	/FLAG SET?
02403	5207		JMP HEAD	/YES
02404	1105	HSKP,	TAD MARG	/NO
02405	4477		MCRLF	
02406	5220		JMP HEXIT	
02407	1120	HEAD,	TAD PHSKP	
02410	7640		SZA CLA	/SUPPOSED TO SKIP THIS ONE?
02411	5214		JMP HEAD1	/NO
02412	2120		ISZ PHSKP	/YES RESET FLAG
02413	5204		JMP HSKP	
02414	1123	HEAD1,	TAD MARG1	} ok
02415	4551		NUMPAG	
02416	1124		TAD MARG2	
02417	4477		MCRLF	
02420	1076	HEXIT,	TAD LINES	
02421	3106		DCA LINCTR	
02422	5600		JMP I HM	
02423	0000	OP,	Ø	/ROUTINE TO OUTPUT CHARACTERS
02424	3243		DCA OPTEM	
02425	1144		TAD FROM	
02426	1116		TAD PAG	
02427	7710		SPA CLA	
02430	5623		JMP I OP	
02431	1243		TAD OPTEM	
02432	4273		JMS STUFF	/ADD CHARACTER TO BUFFER
02433	2020		ISZ CHRCTR	/BUFFER FULL?
02434	5623		JMP I OP	/NO
02435	1024		TAD KM600	/YES RESET VARIABLES
02436	3020		DCA CHRCTR	
02437	1244		TAD OBLOC	
02440	3271		DCA SPTR	
02441	4245		JMS WRITE	/OUTPUT THE BUFFER
02442	5623		JMP I OP	
02443	0000	OPTEM,	Ø	
02444	4777	OBLOC,	4777	
02445	0000	WRITE,	Ø	
02446	2157		ISZ FILIM	/OUTPUT SPACE EXHAUSTED?
02447	5256		JMP WR1	/NO
02450	4504		PRINT	/YES
02451	4543		TEXT "% FULL"	
02452	0625			
02453	1414			
02454	0000			
02455	5427		JMP I MON	
02456	4556	WR1,	JMS I ODLOC	
02457	4200		4200	

02460	5000		HNDLR+1400	
02461	0000	BLKO,	Ø	
02462	5430		ERRMES	
02463	2261		ISZ BLKO	
02464	2666		ISZ I BCLOC	
02465	5645		JMP I WRITE	
02466	0507	BCLOC,	BLCT	
02467	7400	K7400,	7400	
02470	0000	STEMP,	Ø	
02471	4777	SPTR,	4777	
02472	7775	SCTR,	-3	
02473	0000	STUFF,	Ø	
02474	2272		ISZ SCTR	
02475	5323		JMP FILL	
02476	3270		DCA STEMP	
02477	7240		STA	
02500	1271		TAD SPTR	
02501	3271		DCA SPTR	
02502	1270		TAD STEMP	
02503	7006		RTL	
02504	7006		RTL	
02505	0267		AND K7400	
02506	1671		TAD I SPTR	
02507	3671		DCA I SPTR	
02510	2271		ISZ SPTR	
02511	1270		TAD STEMP	
02512	7012		RTR	
02513	7012		RTR	
02514	7010		RAR	
02515	0267		AND K7400	
02516	1671		TAD I SPTR	
02517	3671		DCA I SPTR	
02520	1042		TAD KM3	
02521	3272		DCA SCTR	
02522	5673		JMP I STUFF	
02523	2271	FILL,	ISZ SPTR	
02524	3671		DCA I SPTR	
02525	5673		JMP I STUFF	
02526	0000	INPT,	Ø	/SUBROUTINE TO ACCEPT 4 DIGIT DECIMAL INPT
02527	7200	INPUT 1,	CLA	
02530	3074		DCA DIG	
02531	3143		DCA NMBR	
02532	6031	ZONK1,	KSF	/GET TELETYPE CHARACTER
02533	5332		JMP .-1	
02534	6036		KRB	
02535	1044		TAD KM215	
02536	7450		SNA	/CARRIAGE RETURN?
02537	5363		JMP DON1	/YES END OF INPUT

02540	1370		TAD KM43	
02541	7510		SPA	/IS IT LESS THAN 260?
02542	5332		JMP ZONK1	/YES IGNORE IT
02543	1146		TAD KM12	
02544	7500		SMA	/IS IT GREATER THAN 271?
02545	5332		JMP ZONK1	/YES IGNORE IT
02546	1371		TAD K272	/RESORE THE ANSCII
02547	6046		TLS	
02550	1147		TAD KM260	
02551	3031		DCA TEMP	
02552	1074		TAD DIG	
02553	1134		TAD KM4	
02554	7650		SNA CLA	/4 DIGITS ALREADY?
02555	5373		JMP GOOF1	/YES TOO LARGE
02556	4772		JMS I MTLOC	/NO MULT OLD NMBR BY 10
02557	1031		TAD TEMP	/ADD NEW DIGIT TO OLD NUMBER TIMES
02560	3143		DCA NMBR	/TEN TO GET NEW NUMBER
02561	2074		ISZ DIG	/INCREMENT DIGIT COUNTER
02562	5332		JMP ZONK1	
02563	4504	DON1,	PRINT	
02564	4543		TEXT "% "	
02565	0000			
02566	1143		TAD NMBR	
02567	5726		JMP I INPT	
02570	7735	KM43,	-43	
02571	0272	K272,	272	
02572	2255	MTLOC,	MULT	
02573	4504	GOOF1,	PRINT	
02574	4543		TEXT "% TOO LARGE; PLEASE RETYPE IT "	
02575	2417			
02576	1740			
02577	1401			
02600	2207			
02601	0573			
02602	4020			
02603	1405			
02604	0123			
02605	0540			
02606	2205			
02607	2431			
02610	2005			
02611	4011			
02612	2472			
02613	4000			
02614	5615		JMP I .+1	
02615	2527		INPUT 1	
02616	0000	FP,	0	/ROUTINE TO FILL OUT THE CURRENT PAGE
02617	4435		LINEPT	/PRINT PENDING LINE, IF ANY

02620	1076	TAD LINES	
02621	7041	CIA	
02622	1106	TAD LINCTR	
02623	7120	STL	
02624	7650	SNA CLA	/HAVE WE JUST FINISHED A PAGE?
02625	5616	JMP I FP	/YES EXIT WITH LINK=1
02626	1106	TAD LINCTR	/NO DO REST OF PAGE
02627	7041	CIA	
02630	4477	MCRLF	/SPACE DOWN TO THE BOTTOM MARGIN
02631	4515	FMAR	/PRINT THE PAGE FOOT AND MARGIN
02632	7100	CLL	/AND EXIT WITH LINK=0
02633	5616	JMP I FP	

02634	0000	NAMBUF, 0	
02635	0000		
02636	0000		
02637	0000		
02640	0000	TRBUF, 0	
02641	0000		
	3006	*.+144	
03006	0000	LBUF, 0	
	3207	*.+200	
03207	0000	WBUF, 0	
	3307	*WBUF+100	
03307	0000	SYLPTS, 0	
	3327	*SYLPTS+20	
03327	0000	SPACES, 0	
	3400	PAGE	
03400	0000	HNDLR, 0	/DEVICE HANDLER GOES HERE
		\$	

ADDWRD	0561	DTEMP	1227	HNDLOC	0127	K7000	0264
ADLOC	0761	DXIT	1251	HNDLR	3400	K7400	2467
AFL	0360	ENDPNC	1115	HSKP	2404	K7577	0161
BACKWD	0731	EOFCHR	0513	HYPHEN	1105	K7617	0270
BCLOC	2466	EOFLG	0050	IG	1126	K7620	0271
BLCT	0507	EOL	0600	IN	2200	K7644	0272
BLINLC	0150	EOLC	0526	IND	0520	K7700	0273
BLIP	1261	EP	2204	INDENT	0051	LBLOC	0065
BLKIN	2370	EPLOC	1766	INDEV	0060	LBUF	3006
BLKO	2461	ERRLOC	0030	INDNT	0153	LINCTR	0106
BLKOL	0160	ERRMES	5430	INFLG1	2346	LINEPT	4435
BP	1705	ERROR	0763	INFLG2	2347	LINES	0076
BPTR	2351	EUREKA	0636	INJACK	1332	LK	0227
BR	1670	EXACT	0055	INPT	2526	LK2	0235
BREAK	0416	F	1630	INPUT1	2527	LL	1660
BREAK1	0414	FBO	0357	INREP	0553	LLNG	0053
BR1LOC	0262	FILIM	0157	IPLOC	0260	LLOOP	1740
BUFLOC	0162	FILL	2523	KM1	0072	LNCHAR	0047
CALUSR	4425	FILPAG	4530	KM12	0146	LNFD	0054
CDIL	0057	FIN	0473	KM14	0163	LN1LOC	0753
CE	1714	FINISH	2324	KM2	0111	LNINIT	0543
CECT	1767	FINLOC	2171	KM21	1132	LNOCH	1423
CELP	1722	FLG	0056	KM211	0135	LNPT	1400
CHAR	0032	FLIP	0754	KM212	2353	LOOK	1054
CHARCT	0075	FM	2141	KM215	0044	LPLOC	0035
CHRCTR	0020	FMAR	4515	KM23	0043	MARG	0105
CNTR	1751	FMLOC	0115	KM232	2345	MARG1	0123
CONTIN	0274	FOOT	2150	KM240	0071	MARG2	0124
CR	1150	FOOT1	2155	KM255	0762	MASK1	0061
CRLF	4452	FP	2616	KM260	0147	MASK2	0062
CRLNFD	1317	FPLOC	0130	KM262	2140	MASK3	0063
CRLOC	0052	FROM	0144	KM3	0042	MASK4	0064
CRS	0516	FSKP	2145	KM37	1131	MASK5	1511
CRS0	0514	FST	1634	KM4	0134	MCR	1267
CR1	1151	FSTHD	0131	KM40	1510	MCREP	1277
CSPCT	1357	FST1	1653	KM43	2570	MCRLE	4477
CSPR	1351	GB	1535	KM600	0024	MCRLOC	0077
CTR	0026	GBLOC	0113	KSP	0103	MLNG	0022
DECLOC	1230	GBREP	1536	K101	1667	MON	0027
DECODE	1462	GETREC	4467	K102	1174	MTABS	0133
DECPNT	4436	GOOF1	2573	K12	2254	MTLOC	2572
DECPT	1200	GR	2354	K2	0125	MULT	2255
DEFAULT	0527	GRAB	4513	K200	0025	MULTCT	2265
DEFLOC	0267	GRLOC	0067	K212	0110	N	0767
DIG	0074	GR1	2361	K215	0107	NAMBUF	2634
DIGPT	1245	GWLOC	0756	K232	2352	NBLOC	0154
DONE	2251	GWORD	0436	K240	0045	NCHAR	2267
DON1	2563	GWORD1	0443	K245	1513	NCLOC	0041
DOT	1656	H	0316	K255	0757	NC1	2271
DOWN	0576	HEAD	2407	K260	1257	NC2	2307
DPCTR	1237	HEAD1	2414	K272	2571	NC3	2321
DPLOC	0036	HEXIT	2420	K340	1512	NE	1672

DPT	1240	HM	2400	K40	0265	NEXT	1053
DPT FLG	1260	HMAR	4514	K400	0266	NEXT 1	1045
DS	2175	HMLC	0114	K7	2012	NEXT 2	1051
NG	2222	SCD	1614	TRNLOC	0140		
NGLOC	0073	SCTR	2472	TRNSF	1360		
NL	1165	SHF1	0665	TRTYPE	1514		
NLOC	1770	SHUFCT	0760	TR1	1366		
NMBR	0143	SHUFFL	0662	TTLOC	0104		
NORMAL	1533	SLFLOC	0152	TTYP	1444		
NP	2206	SLUF	1710	TYP	1544		
NPUT	0337	SLUFLC	0142	TYPE	4440		
NUMGET	4473	SLUFR	1757	URP	2261		
NUMPAG	4551	SLUF1	1665	W	1310		
NWLOC	0034	SLUF2	1761	WA	0374		
NWORD	1000	SP	1562	WAIT	4501		
NXT CHR	4441	SPACE	4437	WBLOC	0066		
NXTWRD	4434	SPACES	3327	WBUF	3207		
OBLOC	2444	SPC	1134	WCTR	2374		
ODLOC	0156	SPCC	1335	WIEDER	1323		
OH	0351	SPCR	0102	WRITE	2445		
OHGET	0371	SPCTNW	1133	WRLOC	0512		
OK	0717	SPINC	0706	WR1	2456		
OK1	0715	SPL	0033	WT	1304		
OP	2423	SPLIST	0070	WTLOC	0101		
OPLOC	0021	SPLLOC	0137	XIT	2304		
OPTM	2443	SPLC	0037	ZER	1253		
OP1	0674	SPNOCH	0701	ZINC	0740		
OUT	4421	SPPT	1435	ZNOCH	0732		
OUTDEV	0155	SPREP	1565	ZONK	0100		
OUTPUT	0675	SPTOT	0023	ZONK1	2532		
P	1654	SPTR	2471	ZONK2	2227		
PAG	0116	SQ	2027				
PAGNUM	2211	SRCH	1635				
PART	1111	SS	2172				
PCLOC	1130	STEMP	2470				
PERCHK	1600	STLOC	0263				
PF	2021	STOP	2161				
PFFLG	0121	STUFF	2473				
PFSKP	0122	SUB	1211				
PH	2013	SYLPTS	3307				
PHFLG	0117	SYLREP	0620				
PHSKP	0120	SYLS	0136				
PNFLOC	0261	TAB	0132				
PNLOC	0151	TABCHK	1027				
PNUMFX	1552	TABLE	2052				
PRCLOC	0755	TABLEN	1657				
PRI	1506	TABLOC	1655				
PRINT	4504	TABREP	1036				
PROC	0445	TB	2003				
PSP	0046	TEMP	0031				
PTR	0126	THIRD	2350				
REENT	0422	TLOC	0040				

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REGES	1101	TO	0145
REINIT	0435	TP	2266
RELOCX	0141	TR	1771
REP1	1016	TRBUF	2640
RET	1431	TREP	1520
RM	2040	TRLOC	0112

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ERRORS DETECTED 0
LINKS GENERATED 0