
SEL PROGRAM LIBRARY

PROGRAM DESCRIPTION

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Catalog No. 303004A

IDENTIFICATION: MEMDEX

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PURPOSE: Under sense switch control, the program will load into all memory locations; all zeros and ones, indirect and indirect indexed; alternate bits, indirect and indirect indexed; walking one, indirect; walking zero, indirect indexed. Each location is checked for the proper information stored.

SOURCE PROGRAM LANGUAGE: MNEMBLER 810A

COMPUTER CONFIGURATION: Standard SEL 810A

STORAGE: 0000 to 0502g, plus every other memory location. Not relocatable.

SUBROUTINES REQUIRED: 810A Mainframe Diagnostic Loading Procedure

TIMING: Dependent on memory size.

USE: After loading, set the location tagged FIN (227g) with the most significant four bits of the highest memory address (see note). Start at location zero. The program will run continuously until halted manually.

NOTE: For a 4K memory, no bits should be set in FIN.

8K - set bit 3

12K - set bit 2

16K - set bits 2 and 3

Sense Switches:

SSW 0 up - the dl ones, all zeros test will run.

SSW 1 up - the alternate bit pattern test will be run.

SSW 2 up - the walking one and walking zero test will run.
SSW 3 up - a halt will occur after an error type-out.

Any combination of sense switches may be used.

Type-Out Format:

12345 WORD aaaaaa
Memory Error
12345 - location at which the error occurred.

WORD - what the location should contain.

ZERO - if the location should contain a zero.

ONES - if the location should contain a zero.

1010 or 0101 - the sequence of binary bits for
the alternate bit patterns.

1 or Z and XX - a walking one or zero error
where XX = the left shift count from the
farthest right position.

aaaaaa - the octal contents of the memory location in
error.

NOTE: This program will destroy the contents of
every memory location.

To restart this program, start at location 15g.

METHOD:

Setup Routine

Sets the various addresses used to correspond with the
highest memory address which is loaded into the location
tagged FIN (227g). FIN does not have to be changed if the
machine in which the program is to be run has a 4096
location memory.

Sense Switch Routine (EXEC):

Checks the sense switches that are up and branches to
the routine indicated by the sense switch settings.

All Ones, All Zeros Test (ALL1)

The zeros are obtained by clearing the A-Register. The

zeros are then stored and checked indirectly through the location tagged STAR (225_g). Ones are stored and checked indirectly through the location tagged FIN (227_g) which has its index bit set.

Alternate Bits Test (WORS)

The constant tagged ONEO (234_g) is stored and checked indirectly through STAR. The constant OH1 (235_g) is stored and checked indirectly through FIN.

Walking One and Zero Test (WALK)

The Walk One routine is executed first. A one is loaded in A and shifted zero times. The A-Register is then stored and checked indirectly through STAR. After all of memory is tested, the shift instruction is incremented and the test is repeated. When all bit positions are tested, the Walk Zero routine will be executed.

The Walk Zero routine is executed in the same manner as the Walk One routine except that FIN is used as an indirect address.

Ping Pong Routine (PIPO)

The starting addresses are changed to include the map not exercised previously. The routine then moves the entire program to either the top or bottom map and modifies itself to return the program to the map from which it was moved.

Address Reset Routine (REST)

This routine is executed after every test to reset STAR and the index count contained in the B-Register.

0001	00000	00000000	*					00100
0002	00000	00000000	*	MEMDEX	REV-1			00000100
0003	00000	00000000	*	MEMORY TEST - USES INDEXED AND INDIRECT				00000200
0004	00000	00000000	*	ALL LOADERS MUST BE RELOADED AFTER				00000300
0005	00000	00000000	*	RUNNING THIS PROGRAM				00000400
0006	00000	00000000	*					00000500
0007	00000	00000000	*					00000800
0008	00000	00000000		REL				
0009	01000	00001000		ORG	'1000			
0010	01000	01101247		LAA	TOP	SET UP ROUTINE		00000900
0011	01001	05101227		AMA	FIN	FIN CONTAINS HIGH BIT FOR MORE THAN 4K		00001000
0012	01002	03101247		STA	TOP	TOP IS THE HIGH LOCATION FOR PING-PONG		00001100
0013	01003	01101227		LAA	FIN	FIN BECOMES AN INDIRECT ADDRESS		00001200
0014	01004	05101224		AMA	END	FOR USE IN THE INDIRECT-INDEXED		00001300
0015	01005	03101224		STA	END	OPERATIONS, MINZ SETS THE INDEX BIT		00001400
0016	01006	05101244		AMA	MINZ	ON IN FIN		00001500
0017	01007	03101227		STA	FIN			00001600
0018	01010	01101224		LAA	END	END BECOMES THE INDEX COUNT		00001700
0019	01011	06101225		SMA	STAR			00001800
0020	01012	00000002		NEG		FOR ALL OPERATIONS		00001900
0021	01013	03101224		STA	END			00002000
0022	01014	00000005		TAB				00002100
0023	01015	00000000	*					00002200
0024	01015	00000000	*	EXECUTIVE ROUTINE				00002300
0025	01015	00000000	*					00002400
0026	01015	00130400	EXEC	SNS	0	SENSE SWITCH ZERO		00002500
0027	01016	12101026		SPB	ALL1	ALL ONES, ALL ZEROS		00002600
0028	01017	00130401		SNS	1	SENSE SWITCH ONE		00002700
0029	01020	12101050		SPB	WORS	WORST BIT PATTERN		00002800
0030	01021	00130402		SNS	2	SENSE SWITCH TWO		00002900
0031	01022	12101072		SPB	WALK	WALKING ONE AND ZERO		00003000
0032	01023	12101151		SPB	PIPO-1	PING-PONG		00003200
0033	01024	12101144		SPB	REST			00003250
0034	01025	11101015		BRU	EXEC			00003300
0035	01026	00000000	*					00003400
0036	01026	00000000	ALL1	ZZZ	**	ALL ONES, ALL ZEROS TEST		00003500
0037	01027	00000003		CLA				00003600
0038	01030	03301225		STA*	STAR	STORE ZEROS INDIRECT		00003700

0039	01031	15301225	CMA*	STAR	ZERØS STØRED	00003800
0040	01032	12101254	SPB	ERRZ		00003900
0041	01033	11101035	BRU	**2	YES	00004000
0042	01034	12101254	SPB	ERRZ		00004100
0043	01035	01101243	LAA	ØNES		00004200
0044	01036	03301227	STA*	FIN		00004300
0045	01037	15301227	CMA*	FIN		00004400
0046	01040	12101265	SPB	ERR1		00004500
0047	01041	11101043	BRU	**2	YES	00004600
0048	01042	12101265	SPB	ERR1		00004700
0049	01043	14101225	IMS	STAR	INCREMENT INDIRECT ADDRES	00004800
0050	01044	00000026	IBS			00004900
0051	01045	11101027	BRU	ALL1+1	NØ, REPEAT TEST	00005000
0052	01046	12101144	SPB	REST		00005100
0053	01047	11301026	BRU*	ALL1		00005400
0054	01050	00000000 *				00005450
0055	01050	00000000	WØRS	ZZZ **	ALTERNATE BITS TEST	00005500
0056	01051	01101234	LAA	ØNEØ		00005600
0057	01052	03301225	STA*	STAR	STØRE INDIRECT	00005700
0058	01053	15301225	CMA*	STAR	STØRED PRØPERLY	00005800
0059	01054	12101276	SPB	ER1Ø		00005900
0060	01055	11101057	BRU	**2	YES	00006000
0061	01056	12101276	SPB	ER1Ø		00006100
0062	01057	01101235	LAA	ØH1		00006200
0063	01060	03301227	STA*	FIN		00006300
0064	01061	15301227	CMA*	FIN		00006400
0065	01062	12101307	SPB	ERØ1		00006500
0066	01063	11101065	BRU	**2	YES	00006600
0067	01064	12101307	SPB	ERØ1		00006700
0068	01065	14101225	IMS	STAR	INCREMENT INDIRECT ADDRES	00006800
0069	01066	00000026	IBS		INDEX = ZERØ	00006900
0070	01067	11101051	BRU	WØRS+1	NØ, RETURN TØ REPEAT	00007000
0071	01070	12101144	SPB	REST		00007100
0072	01071	11301050	BRU*	WØRS	EXIT	00007400
0073	01072	00000000 *				00007450
0074	01072	00000000	WALK	ZZZ **		00007500
0075	01073	01101230	LAA	ØNE	WALK ØNE RØUTINE	00007600
0076	01074	00000016	LSL	Ø	SHIFT ØNE	00007700
0077	01075	03301225	STA*	STAR	STØRE INDIRECT	00007800

0078	01076	15301225	CMA*	STAR	STORED PROPERLY	00007900
0079	01077	12101320	SPB	ERWA		00008000
0080	01100	11101102	BRU	*+2	YES	00008100
0081	01101	12101320	SPB	ERWA		00008200
0082	01102	14101225	IMS	STAR	INCREMENT INDIRECT ADDRES	00008300
0083	01103	00000026	IBS			00008400
0084	01104	11101073	BRU	WALK+1	AND RETURN	00008500
0085	01105	00000000 *				00008600
0086	01105	01101074	LAA	WALK+2	CHANGE SHIFT INSTRUCTION	00009000
0087	01106	05101231	AMA	ZNEH		00009100
0088	01107	03101074	STA	WALK+2		00009200
0089	01110	12101144	SPB	REST		00009200
0090	01111	14101236	IMS	SHCN		00009300
0091	01112	11101073	BRU	WALK+1		00009600
0092	01113	00000000 *				00009700
0093	01113	01101233	WA1	LAA	001 WALK ZERO ROUTINE	00009800
0094	01114	03301227	STA*	FIN		00009900
0095	01115	15301227	CMA*	FIN		00010000
0096	01116	12101330	SPB	EWA1		00010100
0097	01117	11101121	BRU	*+2		00010200
0098	01120	12101330	SPB	EWA1		00010300
0099	01121	14101225	IMS	STAR		00010350
0100	01122	00000026	IBS			00010400
0101	01123	11101113	BRU	WA1		00010500
0102	01124	01101233	LAA	001		00010600
0103	01125	02101243	LBA	ONES		00010700
0104	01126	00000113	FLL	1		00010800
0105	01127	03101233	STA	001		00010900
0106	01130	12101144	SPB	REST		00011000
0107	01131	14101240	IMS	RSCN		00011100
0108	01132	11101113	BRU	WA1		00011200
0109	01133	01101253	LAA	LSL		00011500
0110	01134	03101074	STA	WALK+2		00011600
0111	01135	01101237	LAA	NEH		00011700
0112	01136	03101236	STA	SHCN		00011800
0113	01137	01101241	LAA	NECN		00011900
0114	01140	03101240	STA	RSCN		00012000
0115	01141	01101242	LAA	NEWK		00012100
0116	01142	03101233	STA	001		00012200

0117	01143	11301072		BRU*	WALK		00012400
0118	01144	00000000	*				00012446
0119	01144	00000000	REST	***	**	RESET INDIRECT AND INDEX	00012447
0120	01145	01101225		LAA	BEG		00012450
0121	01146	03101225		STA	STAR		00012451
0122	01147	02101224		LBA	END		00012452
0123	01150	11301144		BRU*	REST		00012453
0124	01151	00000000	*				00012500
0125	01151	00000000	*			PING PONG ROUTINE	00012600
0126	01151	00000000	*				00012700
0127	01151	00000000		ZZZ	**	EXIT ADDRESS	00012800
0128	01152	01101225	PIP0	LAA	STAR	RESET ALL ADDRESSES SO PROGRAM CAN	00012900
0129	01153	03101245		STA	SAVE	BE MOVED TO TOP MAP TO EXERCISE	00013000
0130	01154	01101227		LAA	FIN	LOWER PORTION OF MEMORY	00013100
0131	01155	03101246		STA	STAR		00013200
0132	01156	06101245		SMA	SAVE		00013300
0133	01157	03101227		STA	FIN		00013400
0134	01160	00000003		CLA			00013500
0135	01161	03101226		STA	BEG		00013600
0136	01162	03101225		STA	STAR		00013700
0137	01163	01101251		LAA	BRJ		00013800
0138	01164	03101152		STA	PIP0		00013900
0139	01165	01101224		LAA	END		00014000
0140	01166	00000002		NEG		SET EXIT ADDRESS TO GO TO TOP MAP	00014100
0141	01167	03101230		AMA	ONE		00014200
0142	01170	03101151		AMA	PIP0-1	AFTER MOVE IS COMPLETE	00014300
0143	01171	03101151		STA	PIP0-1		00014400
0144	01172	02101232		LBA	IDX		00014500
0145	01173	01301250		LAA*	BOT	MOVE PROGRAM TO TOP MAP	00014600
0146	01174	03301247		STA*	TOP	TO EXERCISE LOWER PART OF	00014700
0147	01175	00000025		IBS		MEMORY	00014800
0148	01176	11101173		BRU	*-3		00014900
0149	01177	11301151		BRU*	PIP0-1	EXIT TO TOP MAP	00015000
0150	01200	01101245	PONG	LAA	SAVE	RESET ALL ADDRESSES SO PROGRAM CAN	00015100
0151	01201	03101225		STA	STAR	BE MOVED BACK TO THE BOTTOM MAP	00015200
0152	01202	03101226		STA	BEG		00015300
0153	01203	01101246		LAA	STAR		00015400
0154	01204	03101227		STA	FIN		00015500
0155	01205	01101252		LAA	LAA		00015600

0156	01206	03101152	STA	PIP0		00015700
0157	01207	01101224	LAA	END		00015800
0158	01210	00000002	NEG			00015900
0159	01211	05101230	AMA	ONE		00016000
0160	01212	03101246	STA	STAR		00016100
0161	01213	01101151	LAA	PIP0-1		00016200
0162	01214	05101246	SMA	STAR		00016300
0163	01215	03101151	STA	PIP0-1		00016400
0164	01216	02101232	LBA	IDX		00016500
0165	01217	01301247	LAA*	T0P	M0VE PR0GRAM BACK T0 B0TT0M MAP	00016600
0166	01220	03301250	STA*	B0T	AND C0NTINUE	00016700
0167	01221	00000026	IBS			00016800
0168	01222	11101217	BRU	*-3		00016900
0169	01223	11301151	BRU*	PIP0-1	EXIT T0 B0TT0M MAP	00017000
0170	01224	00000000	*			00017100
0171	01224	25407777	END	DAC	'7777	00017200
0172	01225	25401000	STAR	DAC	'1000	00017300
0173	01226	25401000	BEG	DAC	'1000	00017400
0174	01227	00000000	FIN	ZZZ	**	00017500
0175	01230	00000001	ONE	DATA	1	00017600
0176	01231	00000100	ONEH	DATA	'100	00017700
0177	01232	00177275	IDX	DATA	-323	00017800
0178	01233	00177776	001	DATA	-2	00017900
0179	01234	00125252	ONE0	DATA	'125252	00018000
0180	01235	00052525	0H1	DATA	'52525	00018100
0181	01236	00177760	SHCN	DATA	-15	00018200
0182	01237	00177760	NEW	DATA	-15	00018300
0183	01240	00177760	RSCN	DATA	-15	00018400
0184	01241	00177760	NECN	DATA	-15	00018500
0185	01242	00177776	NEWK	DATA	-2	00018600
0186	01243	00177777	ONES	DATA	-1	00018700
0187	01244	00100000	MINZ	DATA	'100000	00018800
0188	01245	00000000	SAVE	ZZZ	**	00018900
0189	01246	00000000	STAR	ZZZ	**	00019000
0190	01247	25607503	T0P	DAC	3907,1	00019100
0191	01250	25600503	B0T	DAC	323,1	00019200
0192	01251	11101200	BRU	BRU	P0NG	00019300
0193	01252	01101225	LAA	LAA	STAR	00019400
0194	01253	00000016	LSL	LSL	0	00019500

0195	01254	00000000	*					00019600
0196	01254	00000000	ERRZ	***	**	ZERØS STØRED ERRØR		0019700
0197	01255	12101355	SPB	SAB				0019800
0198	01256	01101456	LAA	LETØ	SET UP TYPE ØUT MESSAGE			0019900
0199	01257	03101470	STA	MESS				0020000
0200	01260	01101457	LAA	LETØ+1				0020100
0201	01261	03101471	STA	MESS+1				0020200
0202	01262	12101365	SPB	TPØ				0020300
0203	01263	12101361	SPB	LAB				0020400
0204	01264	11301254	BRU*	ERRZ				0020500
0205	01265	00000000	*					0020600
0206	01265	00000000	ERR1	***	**	ØNES STØRED ERRØR		0020700
0207	01266	12101355	SPB	SAB				0020800
0208	01267	01101460	LAA	LET1	SET UP TYPE ØUT MESSAGE			0020900
0209	01270	03101470	STA	MESS				0021000
0210	01271	01101461	LAA	LET1+1				0021100
0211	01272	03101471	STA	MESS+1				0021200
0212	01273	12101365	SPB	TPØ				0021300
0213	01274	12101361	SPB	LAB				0021400
0214	01275	11301265	BRU*	ERR1				0021500
0215	01276	00000000	*					0021600
0216	01276	00000000	ER1Ø	***	**	ØNE-ZERØ STØRED ERRØR		0021700
0217	01277	12101355	SPB	SAB				0021800
0218	01300	01101462	LAA	LE10	SET UP TYPE ØUT MESSAGE			0021900
0219	01301	03101470	STA	MESS				0022000
0220	01302	01101463	LAA	LE10+1				0022100
0221	01303	03101471	STA	MESS+1				0022200
0222	01304	12101365	SPB	TPØ				0022300
0223	01305	12101361	SPB	LAB				0022400
0224	01306	11301276	BRU*	ER1Ø				0022500
0225	01307	00000000	*					0022600
0226	01307	00000000	ERØ1	***	**	ZERØ-ØNE STØRED ERRØR		0022700
0227	01310	12101355	SPB	SAB				0022800
0228	01311	01101464	LAA	LEØ1	SET UP TYPE ØUT MESSAGE			0022900
0229	01312	03101470	STA	MESS				0023000
0230	01313	01101465	LAA	LEØ1+1				0023100
0231	01314	03101471	STA	MESS+1				0023200
0232	01315	12101365	SPB	TPØ				0023300
0233	01316	12101361	SPB	LAB				0023400

0234	01317	11301307		BRU*	ER01			0023500
0235	01320	00000000	*					0023550
0236	01320	00000000	ERWA	***	**	WALKING ONE STORED ERROR		0023600
0237	01321	12101355		SPB	SAB			0023700
0238	01322	01101466		LAA	W1	SET UP TYPE OUT MESSAGE		0023800
0239	01323	03101470		STA	MESS			0023900
0240	01324	01101237		LAA	NEW			0024000
0241	01325	06101236		SMA	SHCN			0024100
0242	01326	12101340		SPB	GSCN			0024200
0243	01327	11301320		BRU*	ERWA			0024300
0244	01330	00000000	*					0024400
0245	01330	00000000	EWA1	***	**	WALKING ZERO STORED ERROR		0024500
0246	01331	12101355		SPB	SAB			0024600
0247	01332	01101467		LAA	WZ	SET UP TYPE OUT MESSAGE		0024700
0248	01333	03101470		STA	MESS			0024800
0249	01334	01101241		LAA	NECN			0024900
0250	01335	06101240		SMA	RSCN			0025000
0251	01336	12101340		SPB	GSCN			0025100
0252	01337	11301330		BRU*	EWA1			0025200
0253	01340	00000000	*					0025300
0254	01340	00000000	GSCN	***	**	GET SHIFT COUNT FOR WALK-		0025400
0255	01341	00000002		NEG		ING ONE AND ZERO ERRORS		0025500
0256	01342	00000312		FRA	3			0025600
0257	01343	05101472		AMA	TW06			0025700
0258	01344	00000113		FLL	1			0025800
0259	01345	00000115		RSL	1			0025900
0260	01346	00000516		LSL	5			0026000
0261	01347	00000313		FLL	3			0026100
0262	01350	05101472		AMA	TW06			0026200
0263	01351	03101471		STA	MESS+1	FINISH TYPE OUT MESSAGE		0026300
0264	01352	12101365		SPB	TP0			0026400
0265	01353	12101361		SPB	LAB			0026500
0266	01354	11301340		BRU*	GSCN			0026600
0267	01355	00000000	*					0026700
0268	01355	00000000	SAB	***	**	SAVE A AND B REG.		0026800
0269	01356	03101473		STA	SAVA			0026900
0270	01357	04101474		STB	SAVB			0027000
0271	01360	11301355		BRU*	SAB			0027100
0272	01361	00000000	*					0027200

0273	01361	00000000	LAB	***	**	LOAD A AND B REG.	0027300
0274	01362	01101473		LAA	SAVA		0027400
0275	01363	02101474		LBA	SAVB		0027500
0276	01364	11301361		BRU*	LAR		0027600
0277	01365	00000000	*				0027700
0278	01365	00000000	TP0	***	**	TYPE 0UT MESSAGE	0027800
0279	01366	02101225		LBA	STAR		0027900
0280	01367	12101422		SPB	SHFT	LOCATION	0028000
0281	01370	12101452		SPB	SPAC		0028100
0282	01371	12101452		SPB	SPAC		0028200
0283	01372	02101470		LBA	MESS	ERROR MESSAGE	0028300
0284	01373	12101414		SPB	B0UT		0028400
0285	01374	02101471		LBA	MESS+1		0028500
0286	01375	12101414		SPB	B0UT		0028600
0287	01376	12101452		SPB	SPAC		0028700
0288	01377	02301225		LBA*	STAR	OUTPUT CONTENT OF LOC.	0028800
0289	01400	00000003		CLA			0028900
0290	01401	00000113		FLL	1		0029000
0291	01402	12101437		SPB	TYPE		0029100
0292	01403	00000007		CSB			0029200
0293	01404	00000002		NEG			0029300
0294	01405	00000002		NEG			0029400
0295	01406	00000112		FRA	1		0029500
0296	01407	12101422		SPB	SHFT		0029600
0297	01410	12101446		SPB	CRLF		0029700
0298	01411	00130403		SNS	3	SWITCH 3 UP, HALT	0029800
0299	01412	00000000		HLT			0029900
0300	01413	11301365		BRU*	TP0		0030000
0301	01414	00000000	*				0030100
0302	01414	00000000	B0UT	***	**	B REG. 0UTPUT	0030200
0303	01415	00001013		FLL	8		0030300
0304	01416	12101437		SPB	TYPE		0030400
0305	01417	00001013		FLL	8		0030500
0306	01420	12101437		SPB	TYPE		0030600
0307	01421	11301414		BRU*	B0UT		0030700
0308	01422	00000000	*				0030800
0309	01422	00000000	SHFT	***	**	OUTPUT 5 OCTAL DIGITS	0030900
0310	01423	00000003		CLA			0031000
0311	01424	12101432		SPB	SHF3		0031100

0312	01425	12101432	SPB	SHF3				0031200
0313	01426	12101432	SPB	SHF3				0031300
0314	01427	12101432	SPB	SHF3				0031400
0315	01430	12101432	SPB	SHF3				0031500
0316	01431	11301422	BRU*	SHFT				0031600
0317	01432	00000000	*					0031700
0318	01432	00000000	SHF3	***	**	ØUTPUT ØNE ØCTAL DIGIT		0031800
0319	01433	00000317	FLA	3				0031900
0320	01434	05101472	AMA	TWØ6				0032000
0321	01435	12101437	SPB	TYPE				0032100
0322	01436	11301432	BRU*	SHF3				0032200
0323	01437	00000000	*					0032300
0324	01437	00000000	TYPE	***	**	ØUTPUT A REG.		0032400
0325	01440	00130101	DATA	'130101		CEU 1,W		
0326	01441	00001000	DATA	'1000				
0327	01442	00001016	LSL	8				
0328	01443	00170101	DATA	'170101		AØP 1,W		
0329	01444	00000003	CLA					0033000
0330	01445	11301437	BRU*	TYPE				0033400
0331	01446	00000000	*					0033500
0332	01446	00000000	CRLF	***	**	ØUTPUT CAR. RTN.,LN. FD.		0033600
0333	01447	02101475	LBA	LFØR				0033700
0334	01450	12101414	SPB	ØØT				0033800
0335	01451	11301446	BRU*	CRLF				0033900
0336	01452	00000000	*					0034000
0337	01452	00000000	SPAC	***	**	ØUTPUT A SPACE		0034100
0338	01453	01101476	LAA	SPØE				0034200
0339	01454	12101437	SPB	TYPE				0034300
0340	01455	11301452	BRU*	SPAC				0034400
0341	01456	00000000	*					0034500
0342	01456	00000000	*					0034600
0343	01456	00155305	LETØ	DATA	'ØZERØ'			0034700
0343	01457	00151317						
0344	01460	00147716	LET1	DATA	'ØNES'			0034800
0344	01461	00142723						
0345	01462	00130660	LE10	DATA	'Ø101Ø'			0034900
0345	01463	00130660						
0346	01464	00130261	LEØ1	DATA	'Ø01Ø1'			0035000
0346	01465	00130261						

0347	01466	00130640	W1	DATA	'11	'	0035100
0348	01467	00155240	WZ	DATA	'17	'	0035200
0349	01470	00000000	MESS	DATA	0,0		0035300
0349	01471	00000000					
0350	01472	00000260	TW06	DATA	176		0035400
0351	01473	00000000	SAVA	DATA	0		0035500
0352	01474	00000000	SAVB	DATA	0		0035600
0353	01475	00106612	LFGR	DATA	-29302		00035700
0354	01476	00000240	SPCE	DATA	160		0035800
0355	01477	00000000	*				0035900
0356	01477	70400000	END				
	EXEC	01015					
	ALL1	01026					
	W0RS	01050					
	WALK	01072					
	WA1	01113					
	REST	01144					
	PIP0	01152					
	P0NG	01200					
	END	01224					
	STAR	01225					
	BEG	01226					
	FIN	01227					
	0NE	01230					
	0NEH	01231					
	IDX	01232					
	001	01233					
	0NE0	01234					
	0H1	01235					
	SHCN	01236					
	NEW	01237					
	RSCN	01240					
	NECN	01241					
	NEWK	01242					
	0NES	01243					
	MINZ	01244					
	SAVE	01245					
	ST0R	01246					
	T0P	01247					

BØT	01250
BRU	01251
LAA	01252
LSL	01253
ERRZ	01254
ERR1	01265
ER1Ø	01276
ERØ1	013Ø7
ERWA	01320
EWA1	01330
GSCN	01340
SAB	01355
LAB	01361
TPØ	01365
BØUT	01414
SHFT	01422
SHF3	01432
TYPE	01437
CRLF	01446
SPAC	01452
LETØ	01456
LET1	01460
LE1Ø	01462
LEØ1	01464
W1	01466
WZ	01467
MESS	01470
TWØ6	01472
SAVA	01473
SAVB	01474
LFØR	01475
SPØE	01476