

TTTTTTTTTTTTTTTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	
TTTTTTTTTTTTTTTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	
TTTTTTTTTTTTTTTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEEEEEEEEEEEEE	CCC	000	000
TTT	EEEEEEEEEEEEEE	CCC	000	000
TTT	EEEEEEEEEEEEEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEE	CCC	000	000
TTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	000
TTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	000
TTT	EEEEEEEEEEEEEEEE	CCCCCCCCCCCCCC	000000000	000

Symb

 TECC
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 TEMP
 TEXI
 TFLC
 TIME
 TLIS
 TOPE
 TTOE
 TTOE
 TTOI
 TTON
 TTOP
 TXSI
 TYPE
 TYPE
 TYPE
 TYPE
 TYPE
 UPPE
 USRP
 USRS
 VERS
 VTSI
 VTSI
 WATC
 XI TN
 XI TS
 ZE -C
 ZMAX
 ZZ

```

TTTTTTTTT1  EEEEEEEEE  CCCCCCCC  000000  LL  BBBB8888  RRRRRRR  RR
TTTTTTTTTT  EEEEEEEEE  CCCCCCCC  000000  LL  BBBB8888  RRRRRRR  RR
TT          EE          CC          00      00  LL  BB      BB  RR      RR
TT          EE          CC          00      00  LL  BB      BB  RR      RR
TT          EE          CC          00      00  LL  BB      BB  RR      RR
TT          EE          CC          00      00  LL  BB      BB  RR      RR
TT          EEEEEEE  CC          00      00  LL  BBBB8888  RRRRRRR  RR
TT          EEEEEEE  CC          00      00  LL  BBBB8888  RRRRRRR  RR
TT          EE          CC          00      00  LL  BB      BB  RR  RR
TT          EE          CC          00      00  LL  BB      BB  RR  RR
TT          EE          CC          00      00  LL  BB      BB  RR  RR
TT          EEEEEEEEE  CCCCCCCC  000000  LLLLLLLLLL  BBBB8888  RR  RR
TT          EEEEEEEEE  CCCCCCCC  000000  LLLLLLLLLL  BBBB8888  RR  RR

```

```

LL          IIIII  SSSSSSS
LL          IIIII  SSSSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SSSSS
LL          II     SSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LLLLLLLLLL IIIII  SSSSSSS
LLLLLLLLLL IIIII  SSSSSSS

```

(1) 27

TECO's HELP command, etc.

```

0000 1 .TITLE TECOLBR TECO's HELP command, etc.
0000 2 .IDENT /V39.00/
0000 3
0000 4 :*****
0000 5 :*
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0000 22 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26
0000 27 .SBTTL TECO's HELP command, etc.
0000 28
0000 29 : Last edit on 27-Jul-1983 by Mark Bramhall
0000 30
0000 31 $HLPDEF ; Librarian's HELP definitions
0000 32 $LBRDEF ; Librarian definitions
0000 33
0000000A 0000 34 MAX_KEYS = 10 ; Maximum number of keys allowed
0000 35
000000FF 0000 36 LIB_NAME_MAX = 255 ; Maximum size of a library name
0000 37
000000FF 0000 38 RNS_NAME_MAX = 255 ; Maximum size of a resultant name
0000 39
0000 40 .DEFAULT DISPLACEMENT WORD ; 16 bits should always reach
0000 41
0000 42 .SHOW MEB
0000 43
00000000 0000 44 .PSECT TECOEXELBR, PAGE,NOPIC,USR,OVR,REL,GBL, SHR, EXE,RD,NOWRT
0000 45
50 D5 0000 46 TSTL R0 ; Error message printing call (-1)?
00'AB 19 0002 47 BLSS 40$ ; Yes
38 B5 0004 48 TSTW B^INDIR(R11) ; Active indirect command file?
12 0007 49 BNEQ 20$ ; Yep, do nothing
56 0000'CB 3C 0009 50 MOVZWL W^QPNT(R11), R6 ; Get the size of the command line
34 13 000E 51 BEQL 30$ ; Can't be a HELP command
1B 50 91 0010 52 CMPB R0, #27 ; An ESCape?
08 13 0013 53 BEQL 10$ ; Yep, go check for 2 ESCapes
0A 50 91 0015 54 CMPB R0, #10 ; A LF?
27 12 0018 55 BNEQ 20$ ; Nope
50 50 0D 9A 001A 56 MOVZBL #13, R0 ; Yep, check for CR/LF combination
50 00'AB B1 001D 57 10$: CMPW B^TEMP(R11), R0 ; The second ESCape or CR/LF?

```

		1E	12	0021	58	BNEQ	20\$:	No	
	57	00'AB	3C	0023	59	MOVZWL	B^QRSTOR(R11), R7	:	Get base of Q-register storage	
	57	00'AB	A0	0027	60	ADDW	B^QZ(R11), R7	:	and add in the inuse amount	
		57	56	C2	002B	SUBL	R6, R7	:	then back up by command's length	
		51	87	D0	002E	MOVL	(R7)+, R1	:	Get first four command characters	
51	20202020	8F	CA	0031	63	BICL	#32@8!32@8!32@8!32, R1	:	and (dirty) convert to upper case	
504C4548	8F	51	D1	0038	64	CMPL	R1, #^A/HELP/	:	Is this a HELP command?	
		6F	13	003F	65	BEQL	50\$:	Yes	
		50	7C	0041	66	20\$: CLRQ	R0	:	Say nothing happened	
			05	0043	67	RSB		:	and exit	
				0044	68			:		
	2F	50	91	0044	69	30\$: CMPB	R0, #^A/'	:	A slash?	
		F8	12	0047	70	BNEQ	20\$:	Nope	
		00'AB	B5	0049	71	TSTW	B^ERRPOS(R11)	:	Recovering from an error?	
		F3	15	004C	72	BLEQ	20\$:	Nope again	
005C'CF	0242'CF	9E	004E	73	40\$: MOVAB	230\$, PRINT_ROUT	:	Set a special print routine		
	0253'CF	7F	0055	74	PUSHAQ	250\$:	Set a null line		
0050 8F	0000'CF	01	FB	0059	75	CALLS	#1, TEC\$OUT_ASCID	:	and go output it	
	00	6E	00	2C	005E	76	MOVCS	#0, (SP), #0, #MAX_KEYS*8,	KEY_DESC ; Clear out key desc	
				0065				:		
0050'CF	025B'CF	7D	0068	77	MOVQ	260\$, LIB_DESC	:	Set library name to TECO		
0000'CF	0267'CF	7D	006F	78	MOVQ	270\$, KEY_DESC	:	Set key #1 to ERRORS		
	0008'CF	03	D0	0076	79	MOVL	#3, KEY_DESC+8	:	Key #2 will be length 3	
	52	026F'CF	9E	007B	80	MOVAB	ERROR_CODE, R2	:	Get pointer to error code spot	
	000C'CF	62	9E	0080	81	MOVAB	(R2), KEY_DESC+8+4	:	and set it into key #2	
50	00000000'EF	3C	0085	82	MOVZWL	L^ERRCOD, R0	:	Get the RAD50 code into low order		
		51	D4	008C	83	CLRL	R1	:	and clear a high order	
50	51	50	00000640 8F	7B	008E	84	EDIV	#40*40, R0, R1, R0	:	Divide for the first character
	82	51	40 8F	81	0097	85	ADDB3	#^A/A/-1, R1, (R2)+	:	and set it
			51	D4	009C	86	CLRL	R1	:	Clear a high order
50	51	50	28	7B	009E	87	EDIV	#40, R0, R1, R0	:	and divide for 2nd and 3rd
	82	51	40 8F	81	00A3	88	ADDB3	#^A/A/-1, R1, (R2)+	:	Set the second character
	82	50	40 8F	81	00A8	89	ADDB3	#^A/A/-1, R0, (R2)+	:	and the third
		00C5	31	00AD	90	BRW	170\$:	Go print the error message help	
				00B0	91			:		
005C'CF	56	05	C2	00B0	92	50\$: SUBL	#4+1, R6	:	Remove HELP (4) and ESCape or CR (1)	
	0000'CF	9E	00B3	93	MOVAB	TEC\$OUT_ASCID, PRINT_ROUT	:	; Set the standard print routine		
	0D	50	91	00BA	94	CMPB	R0, #13	:	Was this the CR/LF entry?	
		09	13	00BD	95	BEQL	60\$:	Yes	
		0253'CF	7F	00BF	96	PUSHAQ	250\$:	No, ESCape, set a null line	
0050 8F	0000'CF	01	FB	00C3	97	CALLS	#1, TEC\$OUT_ASCID	:	and go output it	
	00	6E	00	2C	00C8	98	MOVCS	#0, (SP), #0, #MAX_KEYS*8,	KEY_DESC ; Clear out key desc	
				00CF				:		
	54	FFF8'CF	7E	00D2	99	MOVAQ	KEY_DESC-8, R4	:	Start a (biased) key desc pointer	
	54	08	C0	00D7	100	70\$: ADDL	#8, R4	:	Bump to the next key descriptor	
	04	A4	67	9E	00DA	101	80\$: MOVAB	(R7), 4(R4)	:	Set pointer to key in descriptor
		56	D7	00DE	102	90\$: DECL	R6	:	More command line to look at?	
		33	19	00E0	103	BLSS	130\$:	Nope, done	
	20	87	91	00E2	104	CMPB	(R7)+, #32	:	Is this a <SP> or lower?	
		21	1B	00E5	105	BLEQU	110\$:	Yes, end of key (or ignoring junk)	
		64	D6	00E7	106	INCL	(R4)	:	Count a key character in desc	
	61	8F	77	91	00E9	107	CMPB	-(R7), #^A/A/+32	:	A possible lower case character?
		09	1F	00ED	108	BLSSU	100\$:	No	
	7A	8F	67	91	00EF	109	CMPB	(R7), #^A/Z/+32	:	Might be?
		03	1A	00F3	110	BGTRU	100\$:	But it isn't...	
		67	20	8A	00F5	111	BICB	#32, (R7)	:	Convert lower case into upper case
		2F	87	91	00F8	112	100\$: CMPB	(R7)+, #^A/'	:	A slash ('/') for another key?

		E1	12	00FB	113	BNEQ	90\$: Nope, loop for more...
	01	64	D1	00FD	114	CMP	(R4), #1	: Yep, only thing in the key?
		DC	13	0100	115	BEQL	90\$: Just continue if only slash so far
		64	D7	0102	116	DECL	(R4)	: Else remove the slash from old key
		56	D6	0104	117	INCL	R6	: Put the slash back into the count
		57	D7	0106	118	DECL	R7	: and back up pointer over it
		64	D5	0108	119	TSTL	(R4)	: Are we within a key?
		CE	13	010A	120	BEQL	80\$: No, so don't start a new key
	00000048'8F	54	D1	010C	121	CMP	R4, #KEY_DESC+<<MAX_KEYS-1>*8>	: Too many keys?
		C2	1F	0113	122	BLSSU	70\$: No, loop for the next key...
	0004'DF 0000'CF	3D	3A	0115	123	LOCC	#^A/=/, KEY_DESC, @KEY_DESC+4	: Find any equals separator
		4F	13	011D	124	BEQL	160\$: None
		50	7D	011F	125	MOVQ	R0, R6	: Save length and pointer to remainder
	50 0000'CF	50	C3	0122	126	SUBL3	R0, KEY_DESC, R0	: Find size before the equals
	0275'CF 0004'DF	50	29	0128	127	CMPC	R0, @KEY_DESC+4, 280\$: Is it really /LIBRARY?
		3C	12	0130	128	BNEQ	160\$: Nope
	0000'CF 0008'CF 0048	8F	28	0132	129	MOVQ	#<MAX_KEYS-1>*8, KEY_DESC+8, KEY_DESC	: Shuffle up key descs
		63	7C	013C	130	CLRQ	(R3)	: and clear the last one
		57	D6	013E	131	INCL	R7	: Bump pointer over the equals
		56	D7	0140	132	DECL	R6	: and remove the equals from length
		05	12	0142	133	BNEQ	140\$: A real library name remains
	56 027D'CF	7D	7D	0144	134	MOVQ	290\$, R6	: Else use the default default name
	0050'CF	56	7D	0149	135	MOVQ	R6, LIB_DESC	: Set the new library name into desc
		3D	67	014E	136	CMPB	(R7), #^A/=/	: Making this library name permanent?
			22	0151	137	BNEQ	170\$: No
			57	0153	138	INCL	R7	: Yes, bump pointer over 2nd equals
			56	0155	139	DECL	R6	: and remove it from length
			05	0157	140	BNEQ	150\$: A real library name is still there
	00FF 8F 56 027D'CF	7D	7D	0159	141	MOVQ	290\$, R6	: Else set the default default name
		00	67	015E	142	MOVQ	R6, (R7), #0, #LIB_NAME_MAX, @DEF_LIB_DESC+4	: Load new name
				0165				
	0060'CF	51	57	0168	143	SUBL3	R7, R1, DEF_LIB_DESC	: Set default name descriptor length
	0050'CF	0060'CF	7D	016E	144	MOVQ	DEF_LIB_DESC, LIB_DESC	: Default the library name
	04	0050'CF	D1	0175	145	CMP	LIB_DESC, #4	: Is the library name exactly 4 chars?
			12	017A	146	BNEQ	180\$: Nope
	504C4548 8F	0054'DF	D1	017C	147	CMP	@LIB_DESC+4, #^A/HELP/	: Really want system HELP library?
			07	0185	148	BNEQ	180\$: No
	0050'CF	0289'CF	7D	0187	149	MOVQ	300\$, LIB_DESC	: Yes, be good and update the name
		0168'CF	D4	018E	150	CLRL	RNS_DESC	: Say no resultant name yet...
		029C'CF	DF	0192	151	PUSHAL	320\$: Arg #3 is the library type (HELP)
		0298'CF	DF	0196	152	PUSHAL	310\$: Arg #2 is the access mode (read)
		0058'CF	DF	019A	153	PUSHAL	LIB_INDEX	: Arg #1 is the librarian's index
	00000000'GF	03	FB	019E	154	CALLS	#3, G^LBR\$INI_CONTROL	: Init the library access
		55 50	E9	01A5	155	BLBC	R0, 190\$: Abort if any error
	0168'CF	00FF 8F	3C	01A8	156	MOVZWL	#RNS_NAME_MAX, RNS_DESC	: Reset the resultant name descriptor
		0168'CF	3F	01AF	157	PUSHAW	RNS_DESC	: Arg #7 is the resultant name length
		0168'CF	7F	01B3	158	PUSHAQ	RNS_DESC	: Arg #6 is the resultant file name
			DD	01B7	159	PUSHL	#0	: Arg #5 is the related name
		02A0'CF	7F	01B9	160	PUSHAQ	330\$: Arg #4 is the default file name
			DD	01BD	161	PUSHL	#0	: Arg #3 is the create option
		0050'CF	7F	01BF	162	PUSHAQ	LIB_DESC	: Arg #2 is the library file name
		0058'CF	DF	01C3	163	PUSHAL	LIB_INDEX	: Arg #1 is the librarian's index
	00000000'GF	07	FB	01C7	164	CALLS	#7, G^LBR\$OPEN	: Open the library
		2C 50	E9	01CE	165	BLBC	R0, 190\$: Abort if any error
	50 0050'CF		7E	01D1	166	MOVQ	KEY_DESC+<MAX_KEYS+8>, R0	: Point to the key descriptor array
				01D6	167	MAX KEYS		
				01D6	168	PUSHAQ	-(R0)	: Arg #n is one of the key's

			01D6	169	.ENDR	: MAX KEYS	
	70	7F	01D6			PUSHAQ	-(R0)
	70	7F	01D8			PUSHAQ	-(R0)
	70	7F	01DA			PUSHAQ	-(R0)
	70	7F	01DC			PUSHAQ	-(R0)
	70	7F	01DE			PUSHAQ	-(R0)
	70	7F	01E0			PUSHAQ	-(R0)
	70	7F	01E2			PUSHAQ	-(R0)
	70	7F	01E4			PUSHAQ	-(R0)
	70	7F	01E6			PUSHAQ	-(R0)
	70	7F	01E8			PUSHAQ	-(R0)
	00	DD	01EA	170		PUSHL	#0
	005C	'CF	DD	01EC	171	PUSHL	PRINT_ROUT
	00	DD	01F0	172		PUSHL	#0
	0058	'CF	DF	01F2	173	PUSHAL	LIB_INDEX
	00000000	'GF	OE	FB	01F6	CALLS	#4+MAX KEYS, G^LBR\$GET_HELP
51	00000000	'GF	D0	01FD	175	190\$:	MOVL
	56	50	7D	0204	176		MOVQ
	0058	'CF	DF	0207	177		PUSHAL
	00000000	'GF	01	FB	020B	178	CALLS
	0A	56	E9	0212	179		BLBC
	56	50	D0	0215	180		MOVL
57	00000000	'GF	D0	0218	181		MOVL
	1C	56	E8	021F	182	200\$:	BLBS
	50	0168	'CF	7D	0222	183	MOVQ
	50		B5	0227	184		TSTW
	50	0050	'CF	7D	022B	186	MOVQ
FFFE	'8F	00	61	50	2C	0230	187
	00000000	'EF				0237	MOVCS
	50	56	7D	023E	189	220\$:	MOVQ
	05			0241	190		RSB
				0242	191		
	50	01	D0	0244	193	230\$:	.WORD
	06	08	BC	D3	0247	194	MOVL
				0248	195		BITL
				0248	196		
	0000	'CF	05	12	024B	197	BNEQ
			6C	FA	024D	198	CALLG
			04		0252	199	240\$:
					0253	200	RET
	000025B	'010E0000			0253	201	250\$:
					025B	202	.ASCID
	4F	43	45	54	0000263	'010E0000	025B
							203
							260\$:
							.ASCID
53	52	4F	52	52	45	000026F	'010E0000
							0267
							204
							205
							270\$:
							.ASCID
							/ERRORS/
							206
							207
							280\$:
							.ASCII
							'/LIBRARY'
							208
							209
							290\$:
							.ASCID
							/TECO/
							210
							211
							300\$:
							.ASCID
							/HELPLIB/
							212
							213
							310\$:
							.LONG
							LBR\$C_READ
							: Access is for read

```

00000003 029C 214
029C 215 320$: .LONG LBR$C_TYP_HLP ; Library type is a HELP library
02A0 216
45 48 24 53 59 53 000002A8'010E0000' 02A0 217 330$: .ASCID /SYSS$HELP:.HLB/ ; Library's default file name string
42 4C 48 2E 3A 50 4C 02AE
00000000 02B5 218
0000 219 .PSECT TECOCTL, QUAD,NOPICT,USR,CON,REL,LCL,NOSHR,NOEXE,RD, WRT
0000 220
00000050 0000 221 KEY_DESC: ; Key descriptors
0000 222 .BLKQ MAX_KEYS
0050 223
00000058 0050 224 LIB_DESC: ; Library name descriptor
0050 225 .BLKQ
0058 226
0000005C 0058 227 LIB_INDEX: ; Librarian's index
0058 228 .BLKL
005C 229
00000060 005C 230 PRINT_ROUT: ; Librarian output print routine addr
005C 231 .BLKL
0060 232
0060 233 .ALIGN QUAD
0060 234
00000068'00000004' 0060 235 DEF_LIB_DESC: ; Default library name descriptor
0060 236 .LONG 20$-10$, 10$
0068 237
4F 43 45 54 0068 238 10$: .ASCII /TECO/
00000167 006C 239 20$: .BLKB LIB_NAME_MAX-<20$-10$>
0167 240
0167 241 .ALIGN QUAD
0168 242
00000170'000000FF' 0168 243 RNS_DESC: ; Resultant name descriptor
0168 244 .LONG 20$-10$, 10$
0170 245
0000026F 0170 246 10$: .BLKB RNS_NAME_MAX
026F 247 20$:
026F 248
00000272 026F 249 ERROR_CODE: ; Holder for TECO's error code
026F 250 .BLKB 3
0272 251
0272 252 .END

```



```

DEF LIB_DESC          00000060 R   03
ERRCOD                ***** X   02
ERROR_CODE            0000026F R   03
ERRPOS                ***** X   02
FILSIZ                ***** X   02
FILSRT                ***** X   02
HLP$L_FLAGS          = 00000004
HLP$M_KEYNAMLIN      = 00000002
HLP$M_OTHERINFO      = 00000004
INDIR                 ***** X   02
KEY_DESC              00000000 R   03
LBR$CLOSE             ***** X   02
LBR$C_READ           = 00000001
LBR$C_TYP_HLP        = 00000003
LBR$GET_HELP         ***** X   02
LBR$GL_RMSSTV        ***** X   02
LBR$INI_CONTROL      ***** X   02
LBR$OPEN             ***** X   02
LIB_DESC              00000050 R   03
LIB_INDEX             00000058 R   03
LIB_NAME_MAX         = 000000FF
MAX_KEYS              = 0000000A
PRINT_ROUT           0000005C R   03
QPNT                  ***** X   02
QRSTOR                ***** X   02
QZ                   ***** X   02
RNS_DESC              00000168 R   03
RNS_NAME_MAX         = 000000FF
TEC$OUT_ASCID        ***** X   02
TEMP                  ***** X   02
    
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TECOXELBR	000002B5 (693.)	02 (2.)	NOPIC USR OVR REL GBL SHR EXE RD NOWRT NOVEC PAGE
TECOCTL	00000272 (626.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC QUAD

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.08	00:00:00.39
Command processing	121	00:00:00.46	00:00:02.08
Pass 1	154	00:00:02.52	00:00:06.07
Symbol table sort	0	00:00:00.24	00:00:00.62
Pass 2	67	00:00:00.78	00:00:01.59
Symbol table output	5	00:00:00.04	00:00:00.04
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	388	00:00:04.15	00:00:10.82

The working set limit was 1200 pages.
14966 bytes (30 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 180 non-local and 37 local symbols.
252 source lines were read in Pass 1, producing 17 object records in Pass 2.
9 pages of virtual memory were used to define 8 macros.

↑-----↑
! Macro library statistics !
↑-----↑

<u>Macro library name</u>	<u>Macros defined</u>
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	5

218 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:TECOLBR/OBJ=OBJ\$:TECOLBR MSRC\$:TECOLBR/UPDATE=(ENH\$:TECOLBR)

0399 AH-BT13A-SE
VAX/VMS V4.0

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UTILKEY LIS

TECOLBR LIS

TECOMD LIS

SCSLOA LIS

TECO

TECO MAP

TECONAT LIS