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      ,TITLE LIST THE SYSTEM DIRECTORY
/7-27-71
/DIGITAL EQUIPMENT CORPORATION; MAYNARD, MASS,
/ED HILTON

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01100      ,ABS      1100
           ,LOC

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000560     UPREFX=560
000522     TYPONE=522
000120     GETMON=120
000460     TSIXBT=460
000514     CRLF=514
000565     DIRECT=565
000314     READ=314
000540     PSOD=540
000024     BLKNUM=24
700301     KSF=700301
700312     KRB=700312

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01100     100514     LSTDIR      JMS      CRLF      /PROGRAM TO LIST THE DIRECTORY
01101     100560     JMS      UPREFX
01102     201323     LAC      (DIRMSG=1
01103     100460     JMS      TSIXBT
01104     100514     JMS      CRLF
01105     201324     LAC      (HDRMSG=1+400000
01106     100460     JMS      TSIXBT
01107     100514     JMS      CRLF
01110     201325     LAC      (477
01111     040317     DAC      READ+3
01112     777522     LAW      =256
01113     040316     DAC      READ+2
01114     201326     LAC      (1)
01115     040024     DAC      BLKNUM
01116     100314     JMS      READ
01117     100514     JMS      CRLF
01120     201327     LAC      (DIRECT=1      /SET UP ADDRESS=1 OF DIRECTORY
01121     040014     DAC      14
01122     141317     DZM      PRGNMB#      /SET UP PROGRAM NUMBER
           .EJECT

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01123	441317	LSTDRA	ISZ	PRGNMB	
01124	700301		KSF		
01125	601131		JMP	,+4	
01126	700312		KRB		
01127	541330		SAD	(203	/BACK TO MONITOR?
01130	600120		JMP	GETMON	/YES
01131	220014		LAC*	14	/NO
01132	741200		SNA		/DIRECTORY HAS FOUR WORDS PER
01133	601173		JMP	DUNMSG	/PROGRAM, WORDS ONE AND TWO ARE THE
01134	041312		DAC	A	/TITLE IN SIXBT, WORD THREE IS STARTING
01135	201317		LAC	PRGNMB	/BLOCK # ON DECTAPE, WORD FOUR IS
01136	101232		JMS	PR2DD	/WORD COUNT (NEGATIVE FORM),
01137	101262		JMS	SPACE4	/FORMAT IS A TWO DIGIT DECIMAL
01140	220014		LAC*	14	/NUMBER, A SPACE, AND A PROGRAM
01141	041313		DAC	A+1	/TITLE, (SIX CHARACTERS OR LESS)
01142	740200		SZA		/ANY CHARACTERS IN LAST HALF OF WORD?
01143	601147		JMP	,+4	/YES, CHECK FOR FILLING IN SPACES
01144	201331		LAC	(404040)	/NO, FILL IN ALL SPACES,
01145	041313		DAC	A+1	
01146	601163		JMP	LST,1	/PRINT,
			/		
01147	501332		AND	(77)	
01150	740200		SZA		/ANY IN LAST CHARACTER?
01151	601163		JMP	LST,1	/YES, PRINT,
01152	201313		LAC	A+1	/NO FILL LAST CHARACTER WITH A SPACE,
01153	241333		XOR	(40)	
01154	041313		DAC	A+1	
			/		
01155	501334		AND	(7700)	/NOW CHECK MIDDLE CHARACTER,
01156	740200		SZA		
01157	601163		JMP	LST,1	/PRINT,
01160	201313		LAC	A+1	
01161	241335		XOR	(4000)	/FILL IN MIDDLE CHARACTER,
01162	041313		DAC	A+1	
			/		
01163	201336	LST,1	LAC	(A+1	
01164	100460		JMS	SIXBT	
01165	101262		JMS	SPACE4	
01166	220014		LAC*	14	
01167	100540		JMS	PSOD	
01170	100514		JMS	CRLF	
01171	440014		ISZ	14	/UPDATE DIRECTORY POINTER
01172	601123		JMP	LSTDRA	
			,EJECT		

LSTDIR SRC LIST THE SYSTEM DIRECTORY

01173	777775	DUNMSG	LAW	=3
01174	340014		TAD	14
01175	040014		DAC	14
01176	740001		CMA	
01177	341337		TAD	(DIRECT
01200	740100		SMA	
01201	601223		JMP	LSTDRB
01202	220014		LAC#	14
01203	041315		DAC	BLK#
01204	220014		LAC#	14
01205	141316		DZM	CNTBLK#
01206	441316		ISZ	CNTBLK
01207	341340		TAD	(400
01210	741100		SPA	
01211	601206		JMP	=3
01212	201316		LAC	CNTBLK
01213	341315		TAD	BLK
01214	740001		CMA	
01215	341341		TAD	(1101
01216	100540	LSTDRC	JMS	PSOD
01217	201342		LAC	(BLKMSG-1
01220	100460		JMS	TSIXBT
01221	700312		KRB	
01222	600122		JMP	GETMON+2
01223	201343	LSTDRB	LAC	(1042
01224	601216		JMP	LSTDRC
01225	000000	RROT6	/	
01226	742020		RTR	
01227	742020		RTR	
01230	742020		RTR	
01231	621225		JMP#	RROT6
			.EJECT	

/SHIFT AC 6 PLACES TO RIGHT

/PRINT TWO DECIMAL DIGITS UP TO 64

01232	000000	PR2DD	0	
01233	141321		DZM	TENS#
01234	501332		AND	(77
01235	740200		SZA	
01236	601244		JMP	,+6
01237	760260		LAW	260
01240	100522		JMS	TYPONE
01241	760260		LAW	260
01242	100522		JMS	TYPONE
01243	621232		JMP*	PR2DD
01244	341344		TAD	(-12
01245	741100		SPA	
01246	601251		JMP	,+3
01247	441321		ISZ	TENS
01250	601244		JMP	,=4
01251	041322		DAC	UNITS#
01252	201321		LAC	TENS
01253	341345		TAD	(260
01254	100522		JMS	TYPONE
01255	201322		LAC	UNITS
01256	341346		TAD	(12
01257	341345		TAD	(260
01260	100522		JMS	TYPONE
01261	621232		JMP*	PR2DD
			/	
01262	000000	SPACE4	0	
01263	777774		LAW	=4
01264	041320		DAC	SPCNT#
01265	760240		LAW	240
01266	100522		JMS	TYPONE
01267	441320		ISZ	SPCNT
01270	601265		JMP	,=3
01271	621262		JMP*	SPACE4
			,EJECT	

01272	041122	DIRMSG	,SIXBT	'DIRECTORY@'	
01273	050324				
01274	172231				
01275	000000				
01276	162515	HDRMSG	,SIXBT	'NUMB TITLE	BKN@'
01277	024040				
01300	241124				
01301	140540				
01302	404040				
01303	400213				
01304	160000				
01305	404006	BLKMSG	,SIXBT	'FREE BLOCKS@'	
01306	220505				
01307	400214				
01310	170313				
01311	230000				
01312	000000	A	0		
01313	000000		0		
01314	000000		0		

,EJECT

000000
01323 001271 #L
01324 401275 #L
01325 000477 #L
01326 000001 #L
01327 000564 #L
01330 000203 #L
01331 404040 #L
01332 000077 #L
01333 000040 #L
01334 007700 #L
01335 004000 #L
01336 001311 #L
01337 000565 #L
01340 000400 #L
01341 001101 #L
01342 001304 #L
01343 001042 #L
01344 777766 #L
01345 000260 #L
01346 000012 #L

SIZE=01347

NO ERROR LINES

A	01312	BLK	01315	BLKMSG	01305	BLKNUM	000024
CNTBLK	01316	CRLF	000514	DIRECT	000565	DIRMSG	01272
DUNMSG	01173	GETMON	000120	HDRMSG	01276	KRB	700312
KSF	700301	LSTDIR	01100	LSTDRA	01123	LSTDRB	01223
LSTDRC	01216	LST,1	01163	PRGNMB	01317	PR2DD	01232
PSOD	000540	READ	000314	RROT6	01225	SPACE4	01262
SPCNT	01320	TENS	01321	TSIXBT	000460	TYPONE	000522
UNITS	01322	UPREFX	000560				

BLKNUM	000024	GETMON	000120	READ	000314	TSIXBT	000460
CRLF	000514	TYPONE	000522	PSOD	000540	UPREFX	000560
DIRECT	000565	LSTDIR	01100	LSTORA	01123	LST,1	01163
DUNMSG	01173	LSTDRC	01216	LSTORB	01223	RROT6	01225
PR2DD	01232	SPACE4	01262	DIRMSG	01272	HDRMSG	01276
BLKMSG	01305	A	01312	BLK	01315	CNTBLK	01316
PRGNMB	01317	SPCNT	01320	TENS	01321	UNITS	01322
KSF	700301	KRB	700312				