PRELIMINARY CONFIDENTIAL

1 of 10

DISK UTILITIES

John To Mark

ū	COLLEEN DISK UTILITIES			Dist UTILITIES	
$\circ$	0001	IBYTRES = BYBRES = CIO =	) ###USER RAM RESIDENT VERSION### ###BYSTEM RAM RESIDENT VERSION### E436		.,
O	E453 E45C	DKIND # SETVBV =	E453  E45C  E45F		
$\circ$	E462 02E5	XITUBU =	E442 1265 1020E		$\bigcap_{i}$
Ó	0011 0010	BHKKEY = POKMSK =	11 510 54		$\cap$
$\cap$	0008 BFFA	WARMST CARTET	) BFFA DE7		4.5.
O .	02E0	SHFLOK = RUNAD =	20 2E0 2E0		
0	0021 0024	ICDNOZ =			
0	002E 0021	ICIDNO =	02E 021 031A		<i>(</i> ^-
Ç	E63D	COMENT	9E63D 9E689		•
0		DEVERC =	EA9E "COLLEEN DISK UTILITIES"		1019
C)					0
0		, *******	FILENAME =DK1: DUPY, BRC	******	$\circ$
Ο.		DISK UTI	ITY ROUTINE FOR COLLEEN O.B.		0
(*)		kiH ==	k1 k1/256 -256*\$4H+\$4		0
O		ENDM			O
O	L. Company of the second	J ZERO PAG	E VARIABLEB		0
()	001B 001A	JAPTHL #=#+2 RAMLD #=#+2			Ο.
0		1			O
•	1700	I USRDOS =	\$1700		•
	0700	I-MS #	7700 -MB+ <b>\$</b> BB		. :

C.						
Ω	COLLEEN DISK UTILITIES					
0		IF SYSRES				
() L	1300 A7 25 1302 B5 0A	UPA WDOSOBL STA DOSVEC LDA WDOSOSH		an an ann an Aire Chair ann an Aire an		
0	1304 A7 14 1306 B5 08 1308 20 B8 07 1308 A5 08	BTA DOBVEC+1 JBR FMINIT	ON COLDSTART, LOAD AUTO SY	3		
(h)	1300 00 00 130F A9 10 1311 80 54 03	BNE INITX LDA WAFL BTA ICBAL+#1	)   O			
0	1314 A9 13 1316 BD 55 03	LDA WAFH BTA ICBAH+#1 LDADY JMP LDAD	o LOAD VECTOR, ALBO INIT LOA	D AND EXIT.		
0	1310 60	INITX RTB	). 8Y8", CR	Ţ.		(
0	1323 4F 2E 53 1326 59 53 78	HILD AF				No. of the second
$O_{ij}$	0013 0010	AFH = AF/256 AFL = -256#AFH , ENDIF	I+AF			
C		IF BYSRES-				The Chair
U L		. END IF				7
	OOIC OOID	CUP • • • • • • • • • • • • • • • • • • •				
0	001F 007C	CRT = \$1F DLL = \$9C CLBCR = \$7D				
$\circ$		CHEN = \$03				
Ů,	000C 000A	CLOBE = \$0C PUTCHR = \$0A DETCHR = \$04				
Θ [	0004 000B	DETROD - \$04 PUTROD - \$08 RENAME - \$20				
0	0021 00FE	DELETE = \$21 FORMAT = \$FE LOCK = \$23				(
0	0024	INLOCK = 924				
© _	•	DCB = \$300	anticongraphy designation of the second seco			(
•,	0301 0302	DUNIT = DCB+1 DCCHMD = DCB+2 DSTAT8 = DCB+3			A STATE OF THE STA	
	0304 0305	DBUFFLO = DCB+4 DBUFFLI = DCB+5 DCI 0 - DCB+64	management and the second of t			•

$C_{\ell}$			
Ω	COLLEEN DISK UTILITIES		
. <del>-</del>	O3OB DENI	= DCB+eb	
ζ.	0340 toc 0340 icii	· <del></del>	
Ó	0341 1CD 0342 ICC	N = IOCB+1 N = IOCB+2	
$\circ$	0343 ICB 0344 ICB	此。 Page 10 IDCB+4	
	0345 ICB 0348 ICB 0349 ICB	L = 10CB+8	
. <u> </u>	0349 ICB 034A ICA 034B ICA	11 m TOCB+10	
0	1329 PAR 0013 PAR		
0	0029 PAR 1351 LIN 0013 LBU	E ###+BO TYPEIN LINE BUFFER \	
0	0013 LBU 0051 LBU 13A1 DBU	-256+LBUFH+LINE	
	1421 DB1 139E DB3	= DBUF+\$80 = DBUF-3	The state of the s
0	0013 DBU		
0	OOAI DBU	HILO DB1	
	0021 DB1		7
	0013 DB3	-236+DB3H+DB3	
O	0000 DBL		
Ō	14A1 MER 14A2 PER 14A3 / UNI	#m#+1	
0	14A4 14A5	AT A #### A REPORT A REPORT A REPORT OF THE PROPERTY OF THE PORT O	
	14A6 SHI 14AB CSF 14AC CDF	C #=#+1	**************************************
C	14AC CDE 14AD BAY 14AE PTE	X #E#1	
0	14AF 14BO CTI	Research ####1 (2012)	A STATE OF THE STA
0	14B1 OP1 14B2 T1	#=#+2	
6	1484 81 1486 HN 1488 MN	#=#+2 MENU ADDRESB #=#+2 MENU LENGTH	C
1	14BA RD 14BB DT	#E#+1FF_TO_REDISPLAY HENU	(
10	0014D10		and the second of the second second second
•	OOBB D7 14BB LD 14BD LD	T #=#+2	· 中国公共的1987年2月1日 - 1987年1月   1987年2月   1987年2
	Language Ampter and Language L	gar in the state of the state o	

(. <sup>*</sup>			ì
: <b>Q</b>	COLLEEN DISK UTILITIES		1
		AVH .BYTE 684, 609  HILD BAVH AVIAL B BAVH/25A	:
· (	00BF B 14C1 45 3A 9B E	AVIL = -256*BAVIII+BAVH DN .BYTE "E: ", CR	``
0	ooci E	DH = EDN/256  DL = -256*EDH+EDN  DN .BYTE "K:".CR	) ·
0		HILD KDN DNH = KDN/256 DNL = -256*KDNH+KDN	`
0		HENU BYTE CLBCR	`
0	14CB 44 49 53 14CB 4B 20 4F 14CE 50 45 52	BYTE DISK OPERATING SYSTEM 9/24/79", CR	
0	14D1 41 54 49 14D4 4E 47 20 14D7 83 59 83		,
0	14DA 54 45 40 14DD 20 20 20 14EO 39 2F 32		)
0	14E3 34 2F 37 14E6 39 9B 14E8 43 4F 50	BYTE COPYRIGHT 1979 ATARIT GRICH	)
0	14EB 59 52 49 14EE 47 48 54 14F1 20 31 39		AN AND WATER
0	14F4 37 39 20 14F7 41 54 41 14FA 52 49 9B		) .
0	14FD 9B 14FE 41 2E 20 1501 44 49 53	. BYTE "A. DISK DIRECTORY I. FORMAT DISK", CR	•
0	1504 4B 20 44 1507 49 52 45 150A 43 54 4F		١.
0	1510 49 RE 20 1513 46 4F 52		`
0	1516 4D 41 54 1519 20 44 49 1516 53 4B 9B	PYTE "D. RUN CANTRIDGE J. DUPLICATE DISK", CR	)
0	151F 42 2E 20 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	C	)
0	1528 52 54 52 1528 49 44 47 1528 45 20 20		)
9	1531 4A 2E 20 1534 44 55 50 1537 4C 49 43	0	)
•	153A 41 54 45 153D 20 44 49 1540 53 48 98	0	,
4	1543 43 2E 20 1546 43 4F 50 1540 50 50 AA	, AYTE "G, GORY FILE K. BINARY BAVE", CR	

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Ω	COLLEEN DISK UTILITIES	
$\circ$	154F 20 20 20 1552 20 20 20 1555 4B 2E 20	.,
0	1558 42 49 4E 1558 41 52 59 155E 20 53 41	٠٦
$\circ$	1561 36 45 78 1564 44 2E 20 . BYTE "D. DELETE FILE(B) L. BINARY LUAD", CR 1567 44 45 4C	)
$\circ$	156A 45 54 45 156D 20 46 49 1570 4C 45 28	7 <b>"</b> 3
0	1573 53 29 20 1576 4C 2E 20 1579 42 49 4E	
$\circ$	157C 41 52 59 157F 20 4C 4F 1582 41 44 98	,
o.	1585 45 2E 20 BYTE "E. RENAME FILE M. RUN AT ADDRESS", CR 1588 52 45 4E 1588 41 4D 45	)
0	158E 20 46 49 1591 4G 45 20	4
0	1594 20 20 20 1597 4D RE 20 (CA) 159A 52 55 4E 159D 20 41 54	$\langle \gamma \rangle$
$\mathcal{O}$	15A0 20 41 44 15A3 44 52 45 15A6 53 53 98	1
$\circ$	15A9 46 2E 20 BYTE "F. LOCK FILB N. DEFINE DEVICE", CR 15AC 4C 4F 43 15AF 4B 20 46	$\odot$
$\circ$	15B2 49 4G 45 15B5 20 20 20	$\mathcal{O}$
0	1588 20 20 20 1588 4E 2E 20 158E 44 45 46 15C1 49 4E 45	()
$C_{i}$	15C4 20 44 45 15C7 56 49 43	O
0	15CA 45 9B 15CC 47 2E 20 . BYTE *6. UNLOCK FILE O. DUPLICATE FILE*, CR 15CF 55 4E 4C 15D2 4F 43 4B	O
O	1505 20 46 49	0
ଚ	Anne ar me an in the control of the	0
3	15E7 41 54 45 15EA 20 46 49	C.
•	15ED 4C 45 9B 15FO 4B 2E 2O .BYTE "H. WRITE DOS FILE", CR 15FO 57 52 49 15F6 54 45 20	•
!	15F9 44 4F 53 15FC 20 46 49	

Į. '			,
a	COLLEEN DISK UTILITIES		
0	1602 1D 1D 1D 1605 1D 1D 1607 DMEND	. BYTE CDN. CDN. CDN. CDN	ì
Ö	0140 DULEN	HILD DULEN	Ň
0	0001 DULENIA 0040 DULENIL 0014 DHENUH	= DULEN/256 = -256+DULENH+DULEN HILD DMENU = DHENU/256	
$\cap$	00C7 DHENUL	= -256*DHENUI+DHENU	7
0	1607 2D 17 F5 DUJPT 160A 1A 3A 19 160D BA 17 5A 1610 1A 0B 1D	. HORD DIRLBT, BTCAR, CPYFIL, DELFIL, RENFIL, LKFIL, ULFIL	
$\cap$	1613 30 1D 1615 37 1C 87	. HORD HBOOT, FMTDSK, DUPDSK, BAVFIL, LDFIL, BRUN, DEFDEV	7
	1618 1A CC 1D 1618 DB 20 B1 161E 1C 2C 1B 1621 76 1B		•
C	1623 1F 20	.WORD DUFFIL HILD DUFT	~\
0	0016 DUJPTH 0007 DUJPTL 000F DUNUN	- DUJPT/296296+DUJPTH+DUJPT - 19 NUMBER OF FUNCTIONS	")
0		PISK UTILITY ROUTINE STARTS HERE	5
0			")
0			<b>\</b>
0		DIBK OPERATING BYB HONITOR	5
0	1625 A7 FF D0908	HILO DOSOS	•
	0016 D0809H	= D0808/256	٠.
0	0025 1627 85 11	BTA BRKKEY	Ö
0	0025 1627 85 11 1629 85 08 1628 A5 10 1620 09 80	BTA BRKKEY BTA WARMST LDA POKMBK ENABLE BREAK INTERRRUPTB URA ##80	ر ب
0 0 0	0025 1627 85 11 1629 85 08 1628 A5 10 1620 09 80 162F 85 10 1631 80 0E D2 1634 20 BC 21	BTA BRKKEY STA HARMST LDA POKMSK ENABLE BREAK INTERRRUPTS URA ##80 ETA TRAFFI	) () () ()
0	0025 1627 85 11 1629 85 08 1628 A5 10 1620 09 80	- 254*DOSOSH*DUSOS  BTA BRKKEY  STA HARMST  LDA POKMSK ENABLE BREAK INTERRUPTS  URA ##80  BTA POKMSK  STA IRGEN  JER INITIO CLOSE FILES  LDA #0PEN  STA ICCOM+#30 K: IOCS	<u></u>
0	0025 1627 85 11 1629 85 08 1628 A5 10 1620 09 80 162F 85 10 1631 80 0E D2 1634 20 8C 21 1637 A9 03 1639 8D 72 03	BTA BRKKEY STA HARMST LDA POKMBK ENABLE BREAK INTERRUPTB URA ##80 BTA POKMBK STA IRGEN JER INITIO CLOSE FILES LDA #0PEN BTA ICCOM+#30 K: IOCB LDX ##30 K: IOCB	် ဝ

()	•		· `)
Ω	COLLEEN DISK UTILITIES		
C		DIBK UTILITY MONITOR	·"•
$\circ$	1650 DBAUYL 1650 A7 OF DU1 1652 BD A1 14	LDA #DUNUM STA MENUSZ SET MENU SIZE.	7
Ö	1655 A9 07 1657 B5 18 1659 A9 16	LDA #DUJPTL B1A JMPTBL LDA #DUJPTH	$\bigcirc$
0	1658 85 19 165D A9 C7 165F 8D B6 14	8TA JMPTBL+1 BET UP JUMP TABLE ADDRESS LDA #DMENUL 8TA MNA BET UP FOR MENU COPY	<u>(1)</u>
0	1662 A9 14 1664 BD B7 14 1667 A9 40	LDA #DMENUH BTA HNA+I LDA #DULENL	: "Y
0	1669 BD BB 14 166C A9 O1 166E BD B9 14	BTA MNL LDA #DULENH BTA MNL+1	$\cap$
$\cap$	) <b>FAL</b>	HRU TO MENU BELECT	•
0		MENU BELECT MONITOR VECTORS TO ROUTINE SELECTED FROM MENU.	.)
· ()	1673 SD BA 14 1676 AD B6 14	LDA WO CLEAN PAUSE AND SHOW MENU FLAG BTA RDM LDA MNA	()
0	1679 BD 44 03 167C AD B7 14 167F BD 45 03	BTA ICBAL LDA MNA+1 BTA ICBAH	
C	1685 8D 48 03 1688 AD 89 14	LDA MNL. LDA MNL+1	$\cdot$
O	1688 8D 49 03 168E 20 56 23	81A ICBLH JSR D8PM8G SHOW MENU SELECT ITEM FROM MENU	* Y .
0		FUNCTION COME HERE WHEN THEY ARE DONE.  LDX ##FF REBET STACK AT THIS POINT	. )
0	1693 9A 1694 2C BA 14	TX9 BIT RDM JF HE BHOWLD BHOW MENU BMI PSHEN OO DO IT	O
O	1679 A9 EF 1678 A2 16 1670 20 61 23	LDA #BITL SELECT ITEM MESSAGE LDX #SITH JSR DSPLIN	
0	16A0 A7 40 16A2 B0 BE 02 16A5 20 33 22	LDA ##40 MAKE BURE UPPER CABE BTA SHELDK	Ċ.
9	16AB 3B 16AP E9 41 16AB 30 2B	BEC BAC CONVERT ABCII CHAR. TO BINARY & BUBTRACT 1.	0
<u>்</u>	16AD CD A1 14 16BO 10 26 16B2 OA	CMP MENUBZ IS THE # ENTERED > MENU SIZE? BPL RANGE IF YEB, GO READ AGAIN. ASL A	0
•	1683 AB 1684 B1 18 1686 CB	TAY BET INDEX TO (HENU 0 - 1) + 2 LDA (JMPTBL).Y. INY	
ı	1687 85 1A	BIA RAMLO GET STRING POINTER	( ·

	!		•														•	
ũ	COLLE	EN DISK	UTILIŸI	E8			\$ \$\frac{1}{2}\$											
$\mathcal{O}^{-}$		1688 85 1680 A0 168F 81	01		LDY (	RAMLO+1	LOAD BT	RINO POI FOR DSP	NTER INTO	REGISTE	ER8		1	144				
$\bigcap_{i=1}^{n}$		16C1 AA 16C2 8B			TAX DEY				Fig.Fa.Colin		**			•	1			5.7
O		16CB A5	61 23 1A		JBR I LDA F		PRINT M		NITIAL B		INTER							
$\bigcirc$		16CA/18 16CB 69 16CD 85	02			12 RAMLO		<u>.                                    </u>	يدون هدر أخ <u>ومتند بيه جويد وحد .</u>	<u> </u>				<u> </u>				ر ب
$\alpha$		16CF A5 16D1 69 16D3 85	00 1B		ADC 6	RAMLO+1 RAMLO+1	CARRY	PUT HI	BYTE.	-		1 1 1						$\bigcap$
်   ()	ing an area and a second and a second as a	16D5 6 <u>C</u> 16D8 A9 16DA A2		RANGE	LDA . 1	(RAMLO) INSIL INSIH		JUMP TO	ROUTINE	BELECIEI	D BY MEN	<b>V.</b>		<u>( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )</u>		<u> </u>	<u> </u>	-) . -) .
O		16DC 20 16DF 4C	61 23	184	JBR I	BPLIN MENUBL	NO SUCH		BBAGE									] _
े   ()		16E5 53 16E8 48 16EB 54	55 43 5 20 49		, fs.	1				1 2 10		1						』 ・
` (3		16EE 9B	45 4C	BIT	BYTE	BELECT	ITEM". C	R										0
) ()	<u></u>	16FB 45	49 54 4D 98							<u> </u>	49.					<u> </u>	* 10 To	] 
		0016 00E2	i de Sisterio de	N91H	1	48 I 48 I /25 <u>6</u> -25 <b>6 =</b> N8				VI 4 10 10				213000			4,554 <b>(2</b> 5-51)	,
$\cap$		0014		Вітн	HILD	31T/256											1240	10
0		00EF 1691		BITL MNSL	<b>=</b> •	-256#811 ÆNUSL MSL	TH+BIT							·	• .			_ ^\
o		0016 1000		HNBLL	S & S & S & S & S & S & S & S & S & S &	MSL/25	6 BLH+MNBL											
$\circ$	·····			1.	AND REDIE	PLAY ME	ENU											O
0		16FB A9 16FD BD 1700 A9 1702 BD	49 03 15	PSMEN_	BTA 1 1	10  CBLH  21  CBLL		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						***		10,000		0.
O '		1705 A9 1707 BD	17 45 03		LDA 6	PMESH CBAH	***************************************	-										- O
0	ļ.	170A A9 170C BD 170F 20	44 03 54 23		STA I	PMESL CBAL BPMSO		enterented version in the										0
් ආ ු	<u> </u>	1712 20 1715 40 1718 98	71 16 54 59	PMES	JMP E	HRGET BHMEN CR, "TYPI	E RETURN	FOR MEN						<u> </u>			<u> </u>	. 0
•		171B 50 171E 52 1721 55	45 54 52 4E	a namen namen na an managam a managam a m	e de transporter de la contraction de la contrac	<u></u>			· ,		· · <del></del> ·	e er gran gemen ere						•
. I		1724 20 1727 52 172A 45	20 4D	Agentination of the second	4474 &h F	) MEG									·		<u></u>	. <i>, ,</i>

()													ì
Ω	COLLEEN DISK	UTILIT	IE8				:						מ
0	0017 0018		PMEBH PMEBL	UN	PHEB/256 -256*PMEBH+PI	ME8	·		i ng i ar sampig sa namadagan sa titologi satir ng san Sa s	The second second second second second second			
$\cap$	ر در این از در این			DIRECTO	RY LISTING RO	UTINE			ar has broken to a server to a server to a				
$\cap$	172D 98 172F 20		DIRLET	. WORD JSR	DLMO OETICI			· · · · · · · · · · · · · · · · · · ·					)
O.	1732 ÅE 1735 A9 1737 9D	AE 14 9B		LDX LDA STA	PTR #CR PAR-1, X ABBU								/ ) . 1
$\cap \left[\rule{0mm}{2mm}\right.$	173A BD 173D C9 173F DO	3A 18		LDA CMP BNE	CLF	CHAR OF BEAR DLON, ADD +, +							
0	1741 A9 1743 9D 1746 9D	28 13 2A 13	• .	LDA STA STA	#'+ PAR-1, X PAR+1, X				*				ু ^ ` ম
$\circ$	1749 A9 1748 9D 174E A9	29 13		LDA STA LDA	PAR, X							*4. 2 **********************************	: ,
$\cap$	1750 9D 1753 EB 1754 ES		:	ATE XNI XNI	PAR+2, X				,				) n
$\cap$	1755 ES 1756 BE 1759 BE	AE 14	OLF"	INX STX	PTR BAVX						n in		],,,
0	175C A2 175E 20 1761 20	B1 23		LDX JBR JBR	#\$20 PIOCB OETFIL								71412 71412
$\circ$	1764 20 1767 A9 1769 A2	79 R2 06		JSR LDA LDX	PERX #6 READ #\$10	DIR INFO							
0	1749 9D 176E A9 1770 9D	4A 03 03		STA LDA STA	ICAXI,X #OPEN OPEN ICCOM,X								<u>~</u>
0	1773 SE 1776 EO 1778 DO	AB 14 10		BTX CPX BNE		BOURCE-DIREC	TORY INFO	in the					
Ö,	177A 20 177D AD 1780 38	C2 23		JSR LDA SEC	CIOCL PTR	27 N3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							, (C)
0	1781 ED 1784 C9 1786 EQ	03		BBC CMP BEQ	BAVX #3 IF DI DLSTI	NLY 3 CHARS	18 "D: "CR.	UBE DEFAUL	T , 100 (100 (100 (100 (100 (100 (100 (10				ာ
0	1788 4C 1788 AE 178E BD	98 19 AD 14	DLST0 DLST1	JMP LDX LDA	PDES OD II SAVX PAR, X	NTO COPY							0
0	1791 C9 1793 DO 1795 4C	44 F3		CMP BNE JMI	DESTO	NTO COPY. WITH	DE8='E: '						0
0	1798 44 1798 45 179E 4F	49 52 43 54	OH_KI	RYTE	"DIRECTORY	BEARCH SPEC.L	181 FILE?",	CR					0
•	17A1 2D 17A4 45	2D 53 41 52					# ### - ##V-# - PPE-1 - F		Angel and party and a serious				•
	17A7 53 17AA 53 17AD 43	50 45	in and A. ive marks or managery common	e pro Sentre de la com	received the second		· · · · · · · · · · · · · · · · · · ·		, , , , , ,	rigus in giri i saada kurk			

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Ω		COLLEEN DISK	UTILITIEB		
0		1783 20 1786 40 1789 98	45 3F		
0			3 44 18 4 3	****	•
0				DELETE FILE ROL	DUTINE OUT INE
0	L	178A FC			
0		178F 20 17C2 AD	29 13	JBR GETIC1 JBR PERX LDA PAR	EXIT IF PARAM ERRORS OET DEVICE
C	1	1705 C9 1707 F0 1709 A9	1A D3	BEG DF1 LDA WNDFL	
	<u></u>	17CB A2 17CD 20 17DO 4C	61 23	JSR DSPLIN JMP MENUSL	N 전 등 등 역사 사람들은 경기 가입니다. 그는 사람들은 다른 사람들이 다른 사람들이 다른 사람들이 다른 사람들이 다른 사람들이 다른 사람들이 다른 사
	L	17D3 4E 17D6 20 17D9 44	4F 54 NDF 41 20		A DISK FILE*, CR
0		17DC 4B 17DF 49 17E2 98	20 46 4C 45		
	L	0017	NDFH	HILD NDF	
0	Γ	00D3 17E3 A2 17E5 AD	B1 14	LDX 0910 LDA OPT	NDFH+NDF
0		17E8 C9 17EA DO 17EC A9	OB	CHP W'N  BNE DWG  LDA #DELETE	IF OPTION-N. NO QUERY NO. DELETE WITH OVERY TE
			42 03 C2 23 91 16	9TA ICCOM.) JSR CIOCL JMP MENUBL	
O		17F7 A9	E6 DHG	LDA #TYGL LDX #TYGH JBR DEPLIN	
0		17FE A9 1800 8D	00 AF 14	LDA #0 81A IPTR	NOW MANY FILES TO SKIP, NOME AT FIRST
0		1907_9R	20 21 42 03	BTAICCOM.1	TE to the second of the second
		180A A9 180C 9D 180F A9	44 03	LDA ODBOL BTA ICBAL, X LDA ODBOH	·x · · · · · · · · · · · · · · · · · ·
0		1811 9D 1814 A9 1816 BD	45 03 44	STA ICBAH,) LDA #'D STA DBUF-3	·X
(5)		1819 A9 1818 BD 181E AD	3A A0 13	LDA #': STA DBUF-1 LDA PAR+1	0
•		1821 C9 1823 D0	3A 20	CNP #': BNE #+4	DEVICE NUMBER ON THAT IS THE
		1825 A9 1827 BD 182A A2	9F 13 10 IDRD	LDA #11. B1A DBUF-2 LDX #10	2 KLUDGE KLUDGE

	182E 9D 42 03 BTA 1831 A9 06 LDA 1833 9D 4A 03 BTA 1836 A9 29 LDA 1838 A9 13 LDA 1838 A9 13 LDA 1830 7D 45 03 STA 1840 20 C2 23 JBR 1843 A9 A1 LDA	ICCOM, X #6 ICAXI, X DIR READ OPEN #PARL ICBAL, X #PARH ICBAH, X			
	182E 9D 42 03 BTA 1831 A9 06 LDA 1833 9D 4A 03 BTA 1836 A9 29 LDA 1838 A9 13 LDA 1830 9D 45 03 BTA 1840 20 C2 23 JBR	#6 ICAX1,X DIR READ OPEN #PARL ICBAL,X #PARH			
	182E 9D 42 03 BTA 1831 A9 06 LDA 1833 9D 4A 03 BTA 1836 A9 29 LDA 1838 A9 13 LDA 1830 9D 45 03 BTA 1840 20 C2 23 JBR	#6 ICAX1,X DIR READ OPEN #PARL ICBAL,X #PARH			
	1831 A9 06 LDA 1833 9D 4A 03 STA 1836 A9 29 LDA 1838 A9 13 LDA 1838 A9 13 LDA 1830 9D 45 03 STA 1840 20 C2 23 JBR	#6 ICAX1,X DIR READ OPEN #PARL ICBAL,X #PARH			
	1831 A9 06 LDA 1833 9D 4A 03 STA 1836 A9 29 LDA 1838 A9 13 LDA 1838 A9 13 LDA 1830 9D 45 03 STA 1840 20 C2 23 JBR	#6 ICAX1,X DIR READ OPEN #PARL ICBAL,X #PARH			
	1831 A9 06 LDA 1833 9D 4A 03 STA 1836 A9 29 LDA 1838 A9 13 LDA 1838 A9 13 LDA 1830 9D 45 03 STA 1840 20 C2 23 JBR	#6 ICAX1,X DIR READ OPEN #PARL ICBAL,X #PARH			
	1833 9D 4A 03 BTA 1836 A9 29 LDA 1838 9D 44 03 BTA 1838 A9 13 LDA 183D 9D 45 03 STA 1840 20 C2 23 JER	ICAX1, X DIR READ OPEN  OPARL  ICBAL, X  OPARH			
	1836 A9 29 LDA 1838 9D 44 03 BTA 1838 A9 13 LDA 183D 9D 45 03 STA 1840 20 C2 23 JER	WPARL IGBAL, X WPARH			·
	1838 9D 44 03 8TA 1838 A9 13 LDA 183D 9D 45 03 8TA 1840 20 C2 23 JER	ICBAL, X #PARH			
	1838 A9 13 LDA 1830 90 45 03 8TA 1840 20 C2 23 JBR	#PARH			
· . l	183D 9D 45 03 8TA 1840 20 C2 23 JER				
· . l	1840 20 C2 23 JBR	IVDADIA	The same of the sa		
<u></u>	1843 A9 A1 LDA	CIOCL			\$1.11 
<u>ب</u>		*DBUFL	The second secon		
	1845 9D 44 03 STA	ICBAL, X		•	
f	1848 A9 13 LDA	#DBUFH			
	184A 9D 45 03 B1A	ICBAH, X	and the second s		
$\circ$ 1	1840 A9 04 LDA 184F 9D 42 03 STA	OCTRCD ICCOM, X			
'	184F 9D 42 03 1852 A9 00 LDA	#0			
	1854 BD AE 14 BTA	PTR HOW MANY FILES I	E HAVE SKIPPED		
$\mathbf{}$	READ FILE	IAME FROM DIR. GUERY AND DELE	TE !		
	1857 A2 10 RDFN LDX	##10	Ţ		
. [	1859 A9 00 LDA	*0			
()	1858 9D 48 03	ICBLL, X			
L	185E A9 01 LDA		شيخت كسيفيسية بيشب بشيرين بيكيساء بسياده والمسابي بيكي		<del></del>
_	1860 9D 49 03 BTA	ICBLH, X	4 mintaran		
	1863 20 C2 23 JBR	CIOCL READ A LINE FROM			
F	1866 AD A2 13 LDA 1869 C9 20 CMP	DBUF+1 IF FILE LINE, TH	IIB ID BLOOK		
o  -	1868 DO 69 BNE	DELX THIS IS FREE BLC	YCKR LINE		
	186D EE AE 14 INC	PTR COUNT THIS FILE		· 自己的特别的 (1995年) (1995年) [1995年   1995年   199	
L	1870 AD AE 14 LDA	PTR HAVE WE SKIPPED	ENUF YET		
$\circ$	1873 CD AF 14 CM	JPTR			
	1876 30 DF BMI	RDFN BR IF NO			
	1878 A2 00 LDX	O PUT PTR			
0	187A AO 02		\$\$\$ \$		
L		ETE FILE NAMES			
<u> </u>	187C 89 AL 13 MDNI LDA 187F C9 20 CMP	DBUF, Y  O' END OF FILENAME	• 1		•
	1881 FO 09 BEO	MDN2			
I	1883 90 A1 13 BTA			The State of the S	
$\circ$	1886 EB INX				The state of the s
``	1887 CB 1NY		a design français de la companya de		daken bei an efter
	1888 EO OB CPX	<b>#8</b>			
<u>~</u> i	188A 30 FO BMI	MDN1			
	· FILENAME II	HOVED PUT EXT	and the first statement of the second se	The second of th	11.00
$\sim 1$	188C AP 2E MDN2 LDA	Date: W			
D. T.	188E 9D A1 13 1 BTA	DBUF, X			
-	1871 EB INX 1892 AO OA LDY	#10 WERE EXT IS	سنيباط المستهيمة المالية بالمسيدين بواج مستباري المستهدات والمهام والمسترك والمستأوية والمستود المسيدات والمستدر		
<b>(</b> )	1872 AU UA LDY 1874 B9 A1 13 MDN3 LDA	DBUF. Y	•		
*	1897 90 A1 13 HANS EDA	DBUF, X			
ļ [	189A CB INY	And the second section of the section of t	entre encounts. It designs that the property of the state of direct powers and the state of the		1100
<b>.</b> D.   25	1898 E8 INX	and the second s			ar and the state of
	187C CQ QD CPY		manufaguare greater as a una esta de servicio de la companya del companya de la companya de la companya del companya de la companya del la companya de la co		
	189E 30 F4 BMI	MDN3			
	18A0 BE AD 14 BTX	BAVX PUT CR HERE LATE	:R .		
· · · •					
eri. Talaan tanin	18A3 A9 3F	#'? FOR QUERY	The second secon	the second secon	
	18A5 9D A1 13 SITA	#'? FOR GUERY DBUF, X	and the second of the second o		
<b>P</b>			and the second s		

,												
Ω	COLLEEN DISH	UTILIŤII	8		•							
0	1882 20 1885 20 1888 C9	33 22		JBR JBR CMP	DBPLIN CHROET	OD ASK ABOUT THIS	FILE					] \
0	188A DC 188C AC 188F BC	98 AE 14		BNE LDA BTA	RDFN PTR IPTR	OD DO NEXT FILEN. NUMBER FILES WE I 18 NEW NUMBER TO	have gone thru	80 FAR		•		·
.0	18C2 AE 18C5 AS 18C7 9E	AD 14 799 Al 13		LDX LDA BTA	BAVX #CR DBUF, X		المعادمة المتعادمة عالم المتعادمة ال	C				
<u>(</u>	18CA A 18CC 20 18CF 20	C2 23 DB 18		LDX JSR JSR	##20 CIOCL CLOB1	DELETE 10CB	NIN DEAD SILE		· · · · · · · · · · · · · · · · · · ·		-	, T
0	1802 40 1805 20 1808 40	DB 18 91 16	DELX	JMP JSR JMP	IDRD CLOSI MENUSL ##10	CLOSE AND REOPEN CLOSE DIR READ F	ILE				. 11	٦,
0	1908 A2 1900 A5 180F 90 1962 20	7 OC 3 42 03	CLOSI	LDX LDA STA JBR	#CLOSE CIOCL							7
C)	18E5 60 18E6 54 18E7 45	59 50	TYO .	RTS BYTE		, 422, "Y", 422, " TO	DELETE CR					رُ لَـُ
0	18EC 59 18EF 54 18F2 44	22 20 1 4F 20 1 45 4C					47 7 18 N 18 18 18 18 18 18 18 18 18 18 18 18 18					) 3] ,
0	18F5 45 18F8 29 18F8 98	2E 2E										<u>{</u>
CC	001B 00E& 1BFC 44	An Ac	TYOH TYOL DEMO	HILO	TYG/254 -254+TY	OH+TYG FILE BPEC", CR			1944 (1973) 11 (1974)			, 
0	18FF 45 1902 20 1905 40	34 45 46 49						*		A S		لد
0	1908 50 1908 43	3 50 45		*****			Take it					
0	L			COPY FI	LE ROUTI	NE					ing the second s	<b></b>
0	190D 43	4F 50	CPMO	. BYTE	"CDPY	FROM, TD?", CR		ang ann air-air-aireagaigean, saithean ang airlean ann a' s-aireann				
0	1913 44 1916 41 1917 54	52 4F 20 20										0
0	191C 9E 191D 4F 1920 49	50 54	Œ	. BYTE	"OPTION	DOESNT MAKE SENSI	E", CR					
0	1923 20 1926 45 1929 54	9 44 4F 5 53 4E 1 20 4D									<del></del>	ا ()
•		) 53 45 2,53,45,	·	en de la companya de			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				. 0
	1935 <b>9</b> 1	<b>.</b>		HILO	0E					•		•

$\cap$	<u> </u>	001D 1936		10		OEL. CPYFIL	. HORD	-256#DE	H+tre
`		1938	20	84	22	5F 1F 4L.	JBR	OETIC1	The state of the s
$\circ$		1938		BI	14	•	LDA	OPT	
' '		193E 193F		AE	14		PHA LDX	PTR	
		1942	CA				DEX		
$\bigcirc$		1943			173		LDA 🤭	OCR PAR. X	TERM FIRST FILENAME
		1948			1.5		LDX	##20	ICCB 3
$\bigcirc$		194A	20	Bi			JBR	PIOCE	
		194D 1950					LDA BIA	PTR	
$\cap$		1953	20	9E	22		JBR	OETFIL	OET BECOND FILENAME
		1956 1959			22	PERC	JBR	PERX	IF PARAM ERRB, EXIT
0		1757 195A		•		FORC	TAX		
		1958			13	<del></del>	LDA	PAR	OET 18T LETR OF PARAM
$\circ$		195E 1960			3 3		CMP BEQ	ODMB	K AND E AB BOURCE ARE SPECIAL A: GETB 'OPTION DOESN'T MAKE BENBE' FOR NON
		1962	C7	45			CMP	#/E	
$\cap$		1964 1966					BNE DEC	OPSRC RDM	IF NO THEN OPEN SOURCE FILE E: SO RESHOW MENU AFTER COPY
'		1969			17,		LDX	#0	E. DO REDION PRINT OF THE
$\sim$	[	196B			14		STX	CBRC	
$\cap$		196E 1971			17	OPBRC	JMP CMP	PDES	
		1973	FO	38			BEG	ODMS	9: AS BOURCE GETS O. D. M. S. FOR NON
$\bigcirc$		1975 1977					CPX BNE	#'8 OPBRC1	
	Γ	1979				<u> </u>	CMP	O O'C	
$\bigcap_{i}$		197B			4.0	7.)	BNE	ODMS	
	L	1970 197F			03	<u> </u>	LDA STA	1CAX2+4	10
$\cap$		1982			-	OPBRC1	LDX	##10	
- 1	<del>,</del>	1984 1986	A9	03	AR 12		BTA	#OPEN	
$\bigcirc$		1989	4D 49	04	<b>U</b>		LDA	# <b>04</b>	CPEN IN
		198B	9D	44	03	also and an instance	STA	ICAX1.	
( )		178E 1991			14		STX CPX	CSRC #\$10	
	•	1993					BNE	<b>*+33</b>	
$\circ$		1995				one o	JSR	CIUCL	OPEN BOURCE FILE HERE
` '		1998 1998				PDES	L DX	BAVX BARLX.	The second s
·	<u> </u>	199E	C9	45	. <del> </del>		CMP	#'E	CHECK FOR BPECIAL CASE
(ħ)		0A91 SA91				PDES1	BNE LDA	0PDE8 #0	SPECIAL CASE - DONT OPEN, USE EXISTING TOCK
		1984	DD.	AC	14	LEEPL.	BTA	CDES	
#		19A7	CE	BA	14 .	and the second second	DEC	RDM	BET FLAG TO REBHOW HENU
	L	19AA 19AD			IY	EMUD	. 近野 L.DA	DOCPY	AND THE CONTRACT OF THE PROPERTY OF THE PROPER
<b>(*)</b>		19AF	A2	1.9			LDX	#OEH	
	ı——·	1981			23		. JSR - JMP	D8PLIN MENUBL	
•		1987			10	OPDEB	CPX	#'A	APPEND TO DISK FILE
_	l :	1989	po	08			DNE .	OPDES1	
		19BB 19BD					CMP DM:	#'D ODMS	
		. ,					·		

(	•		
	COLLEEN DISK UTILITIES		en e
Q	COLLEEN DIDN VIILITIED	•	
	1004 00 00	BNE OPDESS	an appearable garding or the foreign of the foreign
$\circ$	19C1 DO 02 19C3 A9 08 DPDES		
•	1905 A2 20 OPDES	33 LDX #420	the special particles and the special partic
$\sim$	1907 9D 4A 03		X CRIEN TYPE DUT
$\mathbf{C}$	19CA A9 03 19CC 9D 42 03	LDA #OPEN BTA ICCOM.	Y (IPFN
	19CF BE AC 14	STX CDES	
$\bigcirc$	19D2 20 C2 23	JSR CIDCL	
	1905 A9 00	LDA #0 BTA ICAX2.1	or an in a part of taxable date of the contract of the contrac
0	1907 90 48 03	FROM CORC TO CDE	
	19DA A9 07 DOCPY	/ LDA #GETCH	
,	19DC AE AB 14 QC1	LDX CBRC	
(	19DF AC AC 14 19E2 9D 42 03	LDY CDES	
	19E5 A9 0B	LDA WPUTCH	H #
$\bigcirc$	19E7 99 42 03	BTA ICCOM,	
	19EA A9 A1	LDA #DBUFL	
0	19EC 9D 44 03 19EF 99 44 03	BTA ICBAL,	
` '	19F2 A9 13	LDA ODBUFH	
	19F4 9D 45 03	BTA ICBAH,	
0	19F7 99 45 03	BTA ICBAH, 1 BLDX CBRC	Y
	19FA AE AB 14 CLOOF	LDX CBRC	
$\bigcirc$	19FF 9D 48 03	BTA ICBLL.	
	1A02 A9 01	18 LDA 4401	
$\bigcirc$	1A04 7D 49 03	BTA ICBLH.	X READ FROM INPUT
١.	1A07 20 56 E4 1A0A BC A5 14	JSR CIO BTY BBTAT_	KEND LUM TIMO!
	JAOD AE AC 14	LDX CDES	
O	1A10 AC AB 14	LDY CBRC	
	1A13 B9 48 03 1A16 9D 48 03	BTA ICBLL	
$\mathcal{O}$	1A19 B9 49 03	LDA ICBLH.	
`	1A1C 9D 49 03	STA ICBLH.	X .
0	1A1F 19 48 03		Y IF SOURCE FILE LENOTH = 0  DONT DO WRITE
O	1A22 F0 03 1A24 20 C2 23	DEO CKRS JSR CIOCL	WRITE, ABORT IF ERROR
	1A27 AD A5 14 CKR9	LDA BETAT	QET READ OPERATION BYATUS BACK
C	1A2A 10 CE	BPL. CLOOP	IF DK, QD READ SOME MORE
	1A2C C9 88	CMF ##88 BEQ #+5	EOF STATUS
O	1A2E FO 03 1A30 4C CA 23	BEQ #+5 JMP CIDER	IF NOT, ABORT
	1A33 AE AB 14 CLOC	LDX CBRC	
	1A36 FO OC	BEO DU4	IF E: DONT CLOSE
0	1A3B E0 30	CPX #\$30 BEQ DV4	OR K:
	1A3A FO 08	BE SOURCE FILE	Land to the second seco
()	1A3C A7 OC	LDA #CLOSE	
	1A3E 90 42 03		X
$\bigcirc$	1A41 20 56 E4 1A44 AE AC 14 DU4	LDX CDES	. The second of
`,'	1847 FO OB		IF DES=E:
_	1A49 A9 OC	LDA #CLOSE	
	1A4B 9D 42 03	STA ICCOM	"' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	1A4E 20 56 E4	JSR CIO	
	1		

( >	•	
Ω	COLLEEN DISK UTILITIES	
0		RENAME FILE ROUTINE
$\bigcirc$	1A54 6C 1A RENFIL 1A56 20 84 22 1A59 20 90 22	. WORD RNMO JSR OETIC1 JSR OETNAME
$\cap$	1A5C 20 79 22 1A5F A9 20 1A61 A2 10	JER PERX LIM GRENAME LDX GOLO
$\bigcap_{i}$	1A63 9D 42 03 1A66 20 C2 23 1A69 4C 91 16	BTA ICCOM, X  JBR CIOCL  JHP MENUSL
$\bigcap_{i}$	1A6C 52 45 4E RNMO 1A6F 41 4D 45 1A72 2C 2O 47	BYTE "RENAME, BIVE OLD NAME, NEW", CR
O	1A75 49 56 45 1A78 20 4F 4C 1A78 44 20 4E	
$\circ$	1A7E 41 4D 45 1A81 RC 20 4E 1A84 45 57 98	
$\cap$		•••••••
0		FORMAT DISK ROUTINE
0	1 1	HORD WHD
0	1AB7 20 F1 21 1ABC 20 53 25 1ABF 18	JBR OETLIN JBR GETDN CLC
0	1A90 69 30 1A92 8D EF 1A 1A95 8D F2 1A	ADC #'0 BTA DDSK BTA CDSK
0	1A98 20 79 22 1A98 A9 D7 1A9D A2 1A	JSR PERX LDA OVEML GUERY TO VERIFY DRIVE NUMBER LDX OVEMM
0	1A9F 20 61 23 1AA2 20 33 22 1AA5 C9 59	JBR DBPLIN JBR CHROET CMP #'Y BEE IF OK
o	1AA7 DO 14 1AA9 A9 F1 1AAB A2 10	BNE PHX LDA @FDPL LDX @#10
0	1AAD 9D 44 03 1ABO A9 1A 1AB2 9D 45 03	STA ICBAL: X LDA #FDPH STA ICBAH: X
(3)	1AB5 A9 FE 1AB7 9D 42 03 1ABA 20 C2 23	LDA OFFIRMAT  BTA ICCOM. X  JSR GIOCL CALL GIO TO DO FORMAT
(i)	1ABD 4C 91 16 FMX 1ACO 57 4B 49 MID 1AC3 43 4B 2Q	JMP MENUBL EXITBYTE "WHICH DRIVE TO FORMAT?", CR
•	1AC6 44 52 49 1AC9 56 45 20	
١,	1ACF 46 4F 52 1AD2 4D 41 54	

Ω	COLLEEN DIBK UTILITIES						П
0	1AD7 54 59 50 VFM 1ADA 45 20 22 1ADD 59 22 20	.BYTE "TYPE ".	, \$22, "Y", \$22, " TO FORM	AT DISK "			7
0	1AEO 54 4F 20 1AE3 46 4F 52 1AE6 4D 41 54						
O. [	1AEC 53 48 20 1AEC 53 48 20 1AEF DDGA	***+1					<u> </u>
<u></u>	1AFO 9B 1AF1 44 FDI' 1AF2 CDSK	.BYTE CR .BYTE "D" *=*+1	,		•		
	HE AE ETA I	BYTE ":", CR HILD WHD HHD/254					
0	0000 明期 VFM1	= -256*WH HILD VFH = VFM/256		V			
0	00D7 VFHL	256#VF1	MHIVFN				
U F	OOF1 FDPL	= -256*FDF					<b>a</b>
$\circ$		START CART ROUT	INE CONTRACTOR OF THE CONTRACT				0
U .	E45F SYVBL OOE4 SYVBLH	= SYSVBV HILO SYVBL = SYVBL/2	36				A Parties
0	005F BYVBLL E462 XTVBL	256#8Y	VBLH+8YVBL				
0	OOE4 XTVBLH OO62 XTVBLL JAF5 2B 1B STCAR	= XTVBL/2	56 VRLH+XTVBL			•	
0	1AF7 AD FC BF 1AFA FO OA 1AFC A9 1E	LDA SBFFC	BEE IF CART OO IF THERE IS				0
0	JAFE A2 1B JB00 20 61 23 1B03 4C 91 16	LDX WNCAH JBR DBPLIN JMP MENUSL	SAY NO CART				0
0	1906 20 BC 21 18CAR 1909 69 96	JER INITIO RESET VERTICAL I	BLANK VECTORB BEFORE EI SET YVBLKI	NTERING CART			0
0 -	1BOB A2 E4 1BOD AO 5F 1BOF 20 5C E4	LDX #8YVBLH LDY #8YVBLL JBR SETVBY	HI BYIE				0
0	1812 A9 07 1814 A2 E4 1816 A0 62	LDA #7 LDX #XTVBLH LDY #XTVBLL	BET WBLKD				0
0	1918 20 5C E4 1818 6C FA 8F	JSR SETVBV JMP (CARTST)	) TRIDGE", CR				O
•	1821 43 41 52 1824 54 52 49	and an E. S. Service day of the service of the serv					
Ĺ.	1827 44 47 45 182A 98	AATE EN AIDA					· · · · · · · · · · · · · · · · · · ·

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<u>(                                    </u>		
Ω :	COLLEEN DISK UTILITIES	מ
	OOIE NCAL256*NCAH+NCA 1828 98 BCHO , BYTE CR	
$\sim$	182C 3E 18 BRUN . WORD BRMO 182E 20 F1 21 JBR OETLIN	· 0
6	1831 20 BA 24 JBR GETNO 1834 20 79 22 JBR PERX	
O :	1837 85 1A 8TA RAMLO 1839 86 18 STX RAMLO+1 1838 6C 1A OO JMP (RAMLO)	
of	183E 52 55 4E BRMO BYTE "RUN FROM WHAT ADDRESS?", CR 1841 20 46 52 1844 4F 4D 20	
	1847 57 48 41 1848 54 20 41 1840 44 44 52	<u> </u>
0	1850 45 53 53 1853 3F 98	7000
် ဂ	1855 4C 4F 47 DEDE . BYTE "LOGICAL DEVICE, PHYBICAL DEVICE?", CR	) ( )
0	1858 49 43 41 1858 4C 20 44 1858 45 56 49	- N
	1861 43 45 2C 1864 20 50 48 1867 59 53 49	
0	186A 43 41 4C 186D 20 44 45 1870 56 49 43	3 A
Ì	1873 45 3F 9B 1876 55 1B DEFDEV . WORD DEDE	
_ [	1878 20 F1 21 JSR GETLIN 1878 20 9E 22 JSR GETFIL GET LOGICAL DEVICE NAME 1878 AD AE 14 LDA PTR	
0	1881 C9 03 CMP 63 SHOULD BE DEVICE NAME ONLY 1883 DO 4C BNE B81 BAD SYNTAX 1885 20 9E 22 JBR GETFIL GET PHYBICAL DEVICE	
$\mathcal{C}$	1888 20 79 22 JSR PERX 1888 AD 29 13 LDA ' PAR GET LOG DEV 188E 20 21 1C JSR HATS BEARCH HAT (HANDLER ADDRESS TABLE)	
0	1891 10 OD BPL DD1 IF FOUND  INIDMT FIND IT SO FIND EMPTY SLOT  1893 A9 OO LDA #0	0
$\langle \cdot \rangle$	1875 20 21 1C JSR HATS 1878 30 22 BMI STF TABLE IS FILLED	· O
0	189D 9D 1A 03 BTA HATABB, X PUT NAME IN TABLE 18AO A9 9B DD1 LDA #DRHL	0
O L	18A2 9D 18 03 STA HATAB8+1, X 18A5 A7 25 L DA WDRHH 18A7 9D 1C 03 STA HATAB8+2, X	0
•	1BAA BE AD 14 GTX BAVX    BET UP LDNT, PDBT ENTRIES    1BAD AD 29 13 LDA PAR CET DEVICE	
	1880 20 2E 1C JSR FLD8 1883 10 40 RPL SU1 IF FOUND 1T	•

(	]	COLLEEN DISK UTILITIES			
1	, [	1885 A7 00 1887 20 2E 1C 188A 10 33	BPL	60 FLDS SU2	<u></u>
	١	188C A9 C6 STF 188E A2 18	H IN TABL LDA LDX	LE  ###################################	$\mathcal{O}_{\mathcal{C}}$
1	<b>,</b> [	1900 20 61 23 D9X 1903 40 91 16 1906 54 41 42 TF	JMP	DBPLIN MENUBL "TABLE FULL", CR	7
1	٠	1809 40 45 20 1800 46 55 40 1806 40 98			
-	٠ [	OO1B TFH OOC6 TFL	HILO	TF TF/256 256*TFH+1F	$\bigcirc$
(	)	18D1   BS2 1BD1   BS1 1BD1   A9 D7	LDA	UBBHL '	· · · · · · · · · · · · · · · · · · ·
1	, [	18D3 A2 18 18D5 DO E9 18D7 43 41 4E	BNE	WBSNH DOX *CANT DEFINE THIS DEVICE*.CR	7 .
1	)	10DA 54 20 44 18DD 45 46 49 18EO 4E 45 20	·		O
1	,	1BE3 54 48 49 1BE6 53 20 44 1BE9 45 56 49			<u></u> 0 ]
1	)	1BEC 43 45 98 0018 BSM1	HILO	BSM BBM/256	
- 0	٠, [	00D7 BEN4 1BEF AD 29 13 BU2 1BF2 9D 9D 25	LDA	-256*BSHI(+BSM) PAR LDNT: X	)
! :	)	18F5 AD 28 13 BU1 18F6 C9 98	W IF THIS	S IS A DELETE PAR+2 #CR	
C	, [	19FA DO OE	DNE OPERATIO	CRD NO. QU CREATE DEVICE DN. ZERO LDNT AND HAT ENTRIES	$\odot$
۱ - ر- :	) ·	1 BFE 9D 9D 25 1CO1 AE AD 14 1CO4 9D 1A 03	STA L DX	LDNT, X BAVX HATABS, X	Ö
; }.	, [	ICO7 4C 91 16 CREATE	JMP	MENUBL - HAT AND LIDNT ARE SET UP, MAKE PIBT ENTRY	$O_{i}$
(	) }	1008 OA 1000 OA 1000 OA	ASL ASL ASL	A	0
6	,	1 COE OA 1 COF AA 1 C10 AO OO			0
77	) )	1012 89 20 13 CPBL 1015 9D AB 25 1018 EB	LDA	PAR+3, Y GET BYTE OF PHYSICAL DEV: FILSPEC PDST, X STORE IN TABLE	0
•		1019 CB 101A CO 10 101C DO E4	INY CPY	#16 CPBL	•
1;		1C1E 4C 91 16	JMP FINDS DEV	MENUSL VICE NAMED IN A, RETURNS ITS INDEX IN X	•

( ; ;		
Ω	COLLEEN DISK UTILITIES	a and a second a second and a second a second and a second a second and a second and a second a second a second a second a second and a
$C_{i}$	1021 A2 21 HATB LD 1023 DD 1A 03 HATBL CM 1026 FO 05 BE	HATABB. X
0	1C2B CA DE 1C29 CA DE 1C2A CA DE	
$\cap$	1C2B 10 F6 BP 1C2D 60 HATX RT 1FLD8 IB T	E BAME THING FOR LONT
0	1G2E A2 04 FLDB LD 1G30 DD 9D 25 FLL CM 1G33 FO 03 BE 1G35 CA DE	LDNT. X
0	1035 CA DE 1036 10 FB BP 1038 60 FLDX RT	나이를 했다. 이 소문을 하는 전쟁을 한 이 전문을 만나면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 그를 하는데 나를 하는데 나를 하는데 나를 하는데
	, мвоот —	RITE OUT NEW DOB. BYB FILE
0	1038 20 33 22 J8 1036 09 59 CM	· Control of the cont
0	1C40 DO 2A BN 1C42 A9 6F LD 1C44 A2 1C LD	A GUBHOL Y
C.	1046 20 61 23 JB 1049 A9 03 LD 1048 A2 10 LD	N 40PEN 132-14-14-14-14-14-14-14-14-14-14-14-14-14-
0	1C4D 9D 42 03 ST 1C50 A9 A7 LD 1C52 9D 44 03 ST 1C55 A9 1C	A #DBL. A IGBAL/X
O.	1C57 9D 45 03 BT 1C5A A9 08 LD 1C5C 9D 4A 03 BT	A CONTROL I GBAH, X 在 CONTROL I CON
$\cap$	1C5F 20 C2 23 JS 1C6R A2 10 LD 1C64 A7 QC	R CIOCL X #910
0	1C66 9D 42 03 BT 1C69 20 C2 23 J9 1C6C 4C 91 16 WBX JH	A 1997 IGCOM, X
0	1C6F 57 52 49 WRMO . B 1C72 54 49 4E	YTE "WRITING NEW DOB. BYB FILE", CR
Ö	1075 47 20 4E 1078 45 57 20 1078 44 45 53	
0	1C7E 2E 53 59 1C91 53 20 46 1C94 49 4C 45	
0	001¢ HHMOH = 006F HBMOL =	LD WBM0 WBM0/276 256*WBM0H+WBM0
<u>^</u>	ICBB 34 39 30 GHMG .E	-236+WBRUTHFHBPB YTE "TYPE ", 922, " YO WRITE NEW DOS FILE", CR
•	108E 59 22 20 1091 54 4F 20 1094 57 52 49	
	1097 54 45 20 1098 45 45 57	

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Ω	COLLEGN DISK	( UTI	JTIEB			.*		•												מ
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0	1CA6 9E 1CA7 44 1CAA 4F	I JA		8	BYTE	"D: DOS.	878. c	R		1								<del></del>		ر ر
Γ.	1CAD 53 1CBO 98	3 59	53		<del> </del>					<del></del>							<del> </del>			٦ _
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$\bigcirc$	00A7		1): 1	SL.	•	-256+DE	H+D8													$\sim$
0			90 898 90 F	LDFIL		FILE FUN	CTION						-							7
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, ,	1CB3 A9	EQ.	)2	<del></del>	LDA BTA	RUNAD	BETR	UN ADDE	REBS. TO	MENU	BELECT		<del>/</del>	<del></del>		2 7		<del></del>		٦ .
$\cap$	1CBB AS	E1 (			BTA	MMNSLH RUNAD+1		MUNE	IN PILE	. WE VU	IMENE									(.)
L.	1CBD 20 1CCO 20 1CC3 20	79 8	22		JBR JBR	PERX LOADV										<del></del>				<u> </u>
· ·	1CC6 EC	00	. <b></b>		JBR CPX	_#0	PROCE	88 LOAI	SUBR				<del></del>		ing garang	egracia.		<u> </u>		٦
	ICCS DO ICCA 60 ICCD EC	: EO (	)2		BNE JMP	(RUNAD)	TE OK	ERRORS OO TO	I RIM A	DDRE89					384	in Gili	Ave 20	18 S		10
$\bigcirc$	ICCD EC	07			CPX SEG BEG TYA	#3 NLF	IF BA	D LOAD WISE WE	FILE						<del> </del>			···		10
٠. ۳٠	1CD2 40	CA		DFX	JMb.	CIDER		Y WHAT		- LID E				<del>U</del>		7 527.5	वेश सुद्धाः		grojeskijareja	
$\circ$	1CD5 40 1CD8 A5	7 E5		LF	LDA	MENUSL MBLFL											in di			
0	1CDA A2 1CDC 20 1CDF 20	61 6		<del></del> .	Jer Jer Jer	DBPLIN CLOSX		DAD FIL		<del> </del>		<del>-1</del>		<del></del>	<u></u>	-4				
· _	1CE2 40 1CE3 43	2.91	4	LF.	. BYTE	MENUEL	EXIT_			<del> </del>		<del></del>	<del></del>	- 10 K	<del>- 100</del>	<u> </u>	र <b>१</b> स्टब्स्			
0	1CEO 20 1CEO 20	4G 4	IF	Lar	. DITE	DUD FF	ND LTD	E 100				• .								
(*)	ICEE 46	49		- <del></del>					<del></del>	····		······································		)						$ \alpha$
_	0016	, , <b>,</b>		FII	fil to	BLF/254						<del></del>		7 7 7	- 	1.65				1
0	00E5 1CF3_40	· 45 /	BI	LFL FMO	. BYTE	-256+BL	fh+blf	4.					, v		and of the	6.65			CA PARAGO	
$\circ$	1CF6 44 1CF9 52	20 4	16				225-7.1	7.E.S <del>1 10</del> <b>0</b> -1												0
·	1GFG 20 1GFF 41	57	<u> </u>	<del>,,,,,</del> ,-	<del></del>						-					1 10 57	<del>- 18   - 1   1   1   1   1   1   1   1   1  </del>			
0	1002 44 1005 4	49	IC ·						•		٠.									
ر آ		C 187			E - DO (	IO LOCK														0
	1D09 11		Li		. WORD	LKMO	·			· · · · · · · · · · · · · · · · · · ·	<del>-</del> ,-	errana :		· <del></del>			<del> </del>	<del>.</del>		7
	100A 20 100D 20	79 1			JBR JBR	OETIC1 PERX					•	-							yel selfer	•
	1D10 A9	7 23		é	I DA I DX	#LDCK														

C		)
מ	COLLEEN DIBK UTILITIEB	
C	IDID 57 48 41 LKNO , BYTE "WHAT FILE TO LOCK?", CR	: 1
0	1D20 54 20 46 1D23 49 4C 45 1D26 20 54 4F	)
0	IDMO TO AC AC	$\cap$
0	) ULFIL DD CIO UNLOCK 1D30 45 1D ULFIL . HORD ULMO	$\gamma$
0	1032 20 84 22 JSR GETICI 1035 20 79 22 JSR PERX	7
0	1D3A A2 10 LDX #\$10 1D3C 9D 42 03 STA ICCOM.X 1D3F 20 C2 23 JSR CIOCL	$\cap$
0	1D42 4C 91 16  1D45 57 48 41  ULHO BYTE "WHAT FILE TO UNLOCK?", CR 1D48 54 20 46	)
- C	ID48 49 4C 45 ID4E 20 54 4F ID51 20 55 4E	r")
0	【	$\hat{O}_{i}$
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0		$\circ$
9		<b>O</b> :
(9)		0
•		•

(1)		}
Ω	COLIEEN DISK UTILITIES	
$\cap$	1DD1 20 53 25 JSR GETDN 1DD4 BD A3 14 STA UNNO UNIT NO FOR READ	7
0	1DD7 20 53 25 JSR QETDN 1DDA 8D AC 14 STA CDEB 1DDD 20 79 22 JSR PERX	<u>)</u> .
O	IDEO AD A3 14 LDA UNNO IDE3 CD AC 14 CMP CDEB IF BOTH UNITS THE SAME 1DE6 FO 45 BEO SDD SINGLE DRIVE DUP	``
O	1 DEB A2 1E L DX	~`j
$\circ$	1DF2 20 9A 1D JSR RVTOC 1DF5 20 87 1F NSEC JSR AAM ADV ALLOC MAP ONE BIT 1DF6 30 OC BMI CEND	了 (~)
ි. ල	1DFA 20 BB 1F JBR RBEC 1DFD AD AC 14 LDA CDEB UNIT TO WRITE TO 1EOO BD 01 03 BTA DUNIT	' ''
0	1EO3 20 DO 1F  1EO6 20 A4 1F CEND JSR ABP  1EO9 DO EA BNE NSEC JF HORE SECTORS  1EO8 4C 91 16 JHP MENUSL DONE	1
0	1EOE 49 4E 53 1BD .BYTE "INSERT BOTH DISKS. TYPE RETURN", CR 1E11 45 52 54 1E14 20 42 4F	)
C	1E17 54 48 20 IE1A 44 49 53 1E1D 48 53 2C	<u></u>
0	1 E20 20 54 59 1 E23 50 45 20 1 E26 52 45 54	)
0	1E29 B5 B2 4E  1E2C 9B  HILO IBD  OO1E	^
0	ODOE IRDL256*18DH+18D I BINOLE DRIVE DIBN DUP	<u>.</u> ``
0	FIND AVAIL MEMORY. FILL FROM SOURCE DISK, SWAP, EMPTY, SWAP, REPEAT.  1E2D AD E7 02 SDD LDA MEMLO END OF DUP	
O	1E30 BD B4 14 STA STVEC 1E33 AD EB 02 LDA MEMLO+1 1E34 BD B5 14 STA STVEC+1	<b>"</b> }
<b>(</b> )	1E39 AD E5 02 LDA MEMTOP 1E3C 3B SEC 1E3D E9 80 8DC 000 END-120 TO BEE IF BOOM 1E3F 8D B2 14 8TA T1 FOR ANOTHER BECTOR	``
(3)	1E42 AD E6 02	رب رب
ণ্ড	/ SEE IF ROOM FOR AT LEAST UNE BECTOR!  1E4A AD B3 14 LDA T1+1  1E4D CD B5 14 CM <sup>2</sup> STVEC+1	
	1E50 30 0A BMI NDRM 1E52 DO 12 BNE ENUF 1E54 AD B2 14 LDA T1 1E57 CD B4 14 CMP BTVEC	
	1E57 CD B4 14 CMP BTVEC	ه

	•			
	CIALLEEN DISK UTILITIES		ສຸ	
				. :
	1ESE A2 1F	DA ONRML DX ONRMH JBR DSPLIN		
Ļ	ILOU EV DI -U	JHP MENUBL	A STATE OF THE SAME AND ADDA	
$\circ$	1E66 20 F2 1F ENUF	JBR CKMEM . LDA #0	SEE IF OK TO USE USER AREA	
	IEAB BD Bi 14	BTA OPT	BET UP FOR READ HERE FIRST PASS	:
$\cap \mid \cdot \mid$	1E70 A2 1F	LDX #ISDH	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	
	1E72 20 61 23	JSR DSPLIN JSR CHROET		:
(.) :	1E78 20 9A 1D	JBR RYTOC	READ YTOG AFTER 18T INSERT BOURGE MSQ CKPY INITIAL WRITE POINTERS	. •
$\cap$ $[$		LDA DSLO BTA SWDP	TO INITIAL READ POINTERS	1
` L.	TEBI AD OB OG	LDA DBHI BTA BWDP+1		
O	1E87 AD AE 14	LDA PTR		
. г		BTA SHOP+3		
O	1E90 BD A9 14	BTA BUDP+3		
L.	1E96 BD AA 14	BTA SWDP+4	SKIP FIRST READ PROMPT	ı
$O^{-1}$	IE99 4C AB 1E IREAD FR	UMP LRS1 IOH SOURCE DISK	L TIL BUF FULL OR END OF DATA.	
٦ [ °	JESC AS DO DORD	LDA #0	FLAD WE ARE READING	١.
$\cap$	IEAL A9 44	LDA WIEDL	INSERT BRC DISK	. \$
$^{\circ}$		LDX #19DH JBR DSPLIM		Ş
· ·	1EAB 20 33 22	JSR CHROET		١
0	Aren no no tre in 1 pts	JERS TO WHEN	BHAP SECTOR AND BITMAP POINTERS	
Ĺ	IEAE 20 87 1F LRB	<u>adino/Hritino</u> Jer aam	SECTIONS TO BUFFER AREA ADVANCE ALLOCATION MAP	ì
$\mathbf{O}$	1EB1 30 1F	BMI ABPT	IF FREE, ADV SECTOR POINTER AND TRY AGIN SEE WHAT HODE	
г	1EB3 2C B1 14 1EB6 30 06	BIT OPT	THE IN THE LANGE OF THE PROPERTY OF THE PROPER	ì
0	1EBB 20 C5 1F	JBR RBEC1	DO READ	
ł.,	1EBB 4C C1 1E 1EBE 20 DO 1F DON	JER DKURT	DO WRITE D ADVANCE BUFFER POINTER	,
$\mathcal{O}$	1EC1 AD 04 03 10D	LDA DBUFLI	ADVANCE BOTTER TOTAL	`
~ [	1EC5 &9 80 1EC7 8D 04 03	ADC ##80 BTA DBUFL		,
$\circ$	1ECA AD 05 03	LDA DBUEH		`
0	1ECD 69 00 1ECF 8D 05 03	ADC #0 BIA DBUFH		•
()	1ED2 20 A4 1F ASPT	JSR ASP REG STDD1	OO ADVANCE SECTOR POINTER ALL SECTORS DONE, SHAP TO DEST DISK	)
<b>®</b>	1ED5 FO 21 1ED7 AD B3 14	LDA T1+1	BEE IF ROOM FOR ANOTHER	
	1EDA CD 05 03	CMP DBUEH	IF NO ROOM, GD SHAP	)
<b>o</b> 1	JEDF DO CD	BNE LRS	ROOM SO CONTINUE	<u>.</u>
1	1EE1 AD B2 14	CMP DBUFL	O ROOM.	)
•	1EE7 10 C5	BPL LRS 19k9 AND CONTI		
ı	1EE7 AD B1 14 STBD	LDA OPT BMI DORD	II- MAB WRITE, OO READ	. ;
t	IPPC 30 AE	a		_

D	COLLEEN DISK UTILITIES					ជ
$\circ \lceil$	1EF1 A9 63 1EF3 A2 1F 1EF9 4C A5 1E	LDA LDX JMP	OIDDL INSERT DEST DISK OIDDH XBLK OO DO WRITE			
O	1EFB AD B1 14 1EFB 10 F1 1EFD 4C 91 16	STDD1 LDA HPL JM1	DPT END OF DATA STDD2 IF READ OO WRITE MENUBL JF WRITE WE ARE DO			<b>-</b>
$\cap \lfloor$	1F00 A0 Q4	ALSO INIT BUI	NGE CURRENT AND SAVED BITMA FER POINTER #4	PESECILA PUINIEND		
<b>О</b>	1F02 B9 2A 1F 1F05 B5 1A 1F07 B9 2F 1F	BILLON LDA BTA LDA	SWATL, Y RAMLO SWATH, Y			^
	1FOA 85 1B 1FOC A2 00 1FOE A1 1A	BTA LDX LDA	RAMLO+1 GET ADDRESS FROM T #0 (RAMLO, X) GET WHATS			
O :	1F10 48 1F11 B9 A6 14 1F14 B1 1A	PHA LDA STA	BWDP, Y (RAMLD, X)			
	1F16 68 1F17 99 A6 14 1F1A 88	PLA STA DEY	SWDP. Y			',
O	1F1B 10 E5 1F1D AD B4 14 1F20 BD 04 03	BPL LDA STA	SWLOP STVEC DBUFLO STVEC+1			_
	1F23 AD 85 14 1F24 BD 05 03 1F29 60	LDA STA RTS	DBUFHI	Branch Carlotte	State of the state	()  }  }
() ()		A TAIM				
$\cap \lfloor \cdot \rfloor$	0000 6000	DSLOH = DSLOL =	DSLO / 256 - 256* DSLOH+PSLO	A STATE OF THE STA	The Assessment of the second	
ر. ر	000B 000B	DSHIH = DSHIL =	D8HI D8HI/256 -256+D8HIH+D8HI PTR			्) ज्ञा
	0014 00AE	PTRH = PTRL = HILD	PTR/256 -256*PTRH+PTR IPTR			
() 	0014 00AF	IPTRH = HILO	IPTR/256 -256*IPTRH+IPTR CBRC			<u>०</u> बा
O [	0014 90AB	CBRCH =	CBRC/256 -256±CBRCH+CBRC			
o L	1F2A OA OB AE 1F2D AF AB 1F2F O3 O3 14	SHATE . BYTE	DBLOL, DSHIL, PTRL, IPTRL, CSR DBLOH, DBHIH, PTRH, IPTRH, CBR	man by statute apparatus statistics of statistic per handlebook recording to a real reality of the second of the s		् इत्र
	1F32 14 14	NRM . BYTE	"NOT ENOUGH ROOM", CR			
$^{\circ}$	1F37 20 45 4E 1F3A 4F 55 47 1F3D 48 20 52					
•	1F40 4F 4F 4D 1F43 9B 1F44 49 4E 53	JRD . RYTE	"INSERT SUURCE DISK, TYPE R	ETURN", CR		
	1F47 45 52 54					

	$\label{eq:continuous} \mathcal{L}_{ij} = \{ 1, \dots, n \}  \text{for } i \in \mathbb{N} \\ \mathcal{L}_{ij} = \{ 1, \dots, n \} \\ \mathcal$		ì
Ω	COLLEEN DISK UTILITIES		ជា
	1F4D 55 52 43 1F50 45 20 44 1F53 49 53 4B		<b>~</b> )
:O	1F56 2C 34 59 1F59 50 45 20 1F5C 52 45 54		$\bigcirc$
75	1F5F 55 52 4E 1F62 9B 1F63 49 4E 53 1DD	. BYTE "INSERT DESTINATION DISK, TYPE RETURN", CR	7
<u>,</u>	1F66 45 52 54 1F69 20 44 45 1F6C 53 54 49		1
	1F6F 4E 41 54 1F72 49 4F 4E 1F75 20 44 49		<u>ر َ</u> )
(C)	1F78 53 4B 2C 1F7B 54 59 50 1F7E 45 20 52		$\cap$
0	1F81 45 54 55 1F84 52 4E 98	HILO NAM	, T
$\circ$	001F NRHH 0034 NRHL	= NRM/256 = -256*NRMH+NRM HILO IBD	<u>^</u>
$\circ$	001F 0044 19DL	HIFO IDD -528*18DH+18D	(^) - ≨
$\bigcirc$	001F 1DDH 0063 1DDL 1_AAH	= IDD/256 = -256*IDDH+IDD ADVANCE ALLOCATION MAP ONE BIT.	¥
. ()	1FB7 OE AB 14 AAN 1FBA CE AF 14	MINUB IF FREE. ASL CBRC NEXT BIT OF ALLOC MAP DEC IPTR	<b>1</b>
Ó,	IFBD DO 11 1FBF EE AE 14 IF92 AE AE 14	BNE CBIT IF DONE WITH THIS BYTE INC PTR GET NEXT ONE LDX PTR	
$\circ$	1F95 BD 28 14 1F98 BD AB 14 1F98 A9 OB	LDA DB1+0A, X BTA CBRC LDA 08	$\circ$
()·	1F9D BD AF 14 1FAO AD AB 14 CBIT 1FA3 60	RIS	0
$\bigcirc$	IFA4 AD OA Q3 ASP	LDA DSLO SEE IF END	O <sub>i</sub>
0	1FA7 C9 CF 1FA9 DO O7 1FAB AD OB O3	CMP #207 BNE NX8 LDA DBHI	0
0	1FAE C9 02 1FB0 F0 08 1FB2 EE 0A 03 NXB	INC DBLD	0
0	1FB5 DO 03 1FB7 EE 0B 03 1FBA_60ASPX	RTS	0
•	RBEC	- READ A BECTOR WHOSE NUMBER IS IN DCB	•
	1FBB A9 A1 RSFC 1FBD 8D 04 03	LDA ODBUFL 87A DBUFLO	. )

١.													
ü	COLLEEN DISK	UTILITIE8							:	•			. 13
0	1FC2 BD 1FC5 AD 1FC8 BD	05 03 A3 14	RBECI	BTA LDA BTA	DBUFHI UNNO DUNIT		antigates approximates or a sign was considerable of						
ر. ر	IFCB A9 IFCD 4C	52			#\$52 CLDKH	GET BECTOR	Commission of the Commission o						
0	A = 10 0 A = 5			- WRITE	A SECTO	R. NUMBER IN DCB		•					10
L	1FD0 A9 1FD2 90 1FD3 A9	02 03 02	CL DKH	STA	DCOMND #2 RCNT	BET RETRY COUNT	المستوار المستوان الم		ن بالهام بالمجاهد المجاهد المجاهد الم	aras etimonis miletimosemetraminasti.			)
$\cap \lceil$	1FD7 8D 1FDA 20 1FDD AD	53 E4 03 03 01	CI KI	J9R LDA	DKHND DSTATS								0
. <b>L</b>	1FE2 FO 1FE4 CE 1FE7 10	08 A4 14	•	BEO	DRTS RCNT CLD1	DK STATUS	<u> </u>		ľ		<del></del>		<u> </u>
0	1FE9 4C 1FEC 60	CA 23			CIDER	CIO ERROR, QO SAY	WITCH						],
U F			i		ASK IF	OK TO USE USER ARE				. <u> </u>			<b>-</b> (1)
$\cap \lceil$	1FED 69 1FEE 68 1FEF 4C	91 16		PLA PLA JMP	MENUEL								0
O L	1FF4 F0 1FF5 A9	77		BEQ LDA	CPTR1 WOKL	GUERY TO BOMB IT	AC)	<u> </u>		CO. B. A. M. S. C. A.C.	3.5.5.24 F. 1.5.	<u>ممالسفت بالأمامان في المالا ابتات .</u>	A C
o [	1FFD 20	61 20 33 22		JBR JBR	DSPLIN CHROET			Angel (March					] \ \
O O	2000 C9 2002 D0 2004 A9	E9 00		EME LDA	DDXT #O						4 Stephen Michigan	<u> </u>	
0	2008 60 2008 60	os		RTS	WARMST								
o L				<u>·                                     </u>						<u> </u>			ر ا
oΓ				· • •									0
o L						<u>and the specific property of the specific pro</u>	,	100 days (\$100 days)	<u> </u>				. () 1
<u>ი</u> [	Programme and the programme an		****	; ; ;				den - magen og e støpe melekele deterministe og en søre					0
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•								n va new		4 A A			•

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	COLLEEN DISK UTILITIES	
0	DUPFI	IL - COPY FILE FROM ONE DIBK TO ANOTHER
0	2009 4E 41 4D DPFM . BYTE 2000 45 20 4F 200F 46 20 46	E "NAME OF FILE TO HOVE?", CR
0	2012 47 4C 45 2015 20 54 4F 2018 20 4D 4F	
0	2018 56 45 3F 2016 98 2016 09 20 DUPFIL , MORD	
	2021 20 84 22 JBR 2024 20 79 22 JBR 2027 20 F2 1F JBR	GETIC1 GET A DEV: FILBPEC PERX CHECK FOR ERRORS CKMEM
ر س	202A A2 10 LDX 202C A9 03 LDA 202E 9D 42 03 STA 2031 A9 04 LDA	##10 #OPEN 1CCOM, X
	2033 9D 4A 03 BTA 2036 20 C2 23 JBR 2037 AD E5 02 LDA	ICAX1, X CIOCL HEMTOP SET BUFFER LENGTH
ا. د	203C 3B BEC 203D ED E7 02 BBC 2040 9D 4B 03 BTA	TO ALL AVAILABLE MEMORY  MEMLO  TIGBLE, X
	2043 AD E6 02 LDA 2046 ED EB 02 BBC 2049 9D 49 03 BTA	HENTOP+1 HEHLO+1 ICBLH: X
ر ر	204C AD E7 02 LDA 204F 9D 44 03 81A 2052 AD E8 02	MEMLO ICBAL, X MEMLO+1
()	2055 9D 45 03 8TA 2058 A9 06 LDA 205A 9D 42 03 BTA	ICBAH, X QUETCHR ICCOM, X
o Lef	205D 20 56 E4 JSR 2060 CO 88 CPY 2062 FO 18 BEG	CIO 0498 OKB IF EOF, WE READ WHOLE FILE BO OK
○ L	2064 CO 01 CPY 2066 FO 03 BEG 2068 4C C9 23 JMP	#+5 CIDER1 NOT DK OR EDF 8D GIVE ERROR MESSAGE
	206B A9 34 LDA 206D A2 1F LDX 206F 20 61 23 JBR	WNRML CIK, BAY NO ROOM WNRMH DBPLIN
	2072 A9 OC DFCX LDA LDX 2074 A2 10 LDX BTA	1GCOH, X
် ၁ [	2079 20 56 E4 JSR 2076 4C 91 16 JNP 207F A9 OC OKB LDA 2081 A2 10 LDX	C10 HEN/BL  #CLOSE #910
	2083 9D 42 03 BTA 2086 BD 48 03 LDA 2087 BD 82 14 STA	IGCOM, X ICBLL. X T1
	208C BD 49 03 LDA 208F BD 83 14 S1A 2092 20 56 E4 JSR	icBLH. X T1+1 C10
	2095 A2 1F LDX 2097 A9 63 LDA 2099 20 61 23 JSR	#IDDH #IDDL DEPLIN NAY TO BUAP DISKS

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	COLLEEN DISK	UTILITIEB		
0	209F A2		LDX 0010	
`	20A1 A9 20A3 9D		LDA #PARL BTA ICBAL, X	POINT TO FILENAMEADAIN
$\circ$	20A6 A9		LDA #PARH	
١.	20A8 9D 20A8 A9	03	BTA ICBAH, X LDA #OPEN	
75 T	20AD 9D 20B0 A9		BTA ICCOM, X LDA #B	
l	20B2 9D	4A 03	STA ICAX1, X	The state of the s
65	2085 20 2088 AD		J9R CIOCL LDA MEMLO	OPEN FOR OUTPUT
ı	. 2088 9D	44 03	BTA ICBAL, X	
0	20BE AD 20C1 9D		LDA MEMLD+1 BTA ICBAH, X	BET UP ADR AND LENOTH
L	20C4 AD	B2 14	LDA T1	
$C^{\infty}$	2007 9D 200A AD		BIA ICBLL, X LDA T1+1	
ſ	20CD 9D 20D0 A9		STA ICBLH, X	
$\circ$	20D2 9D	42 03	BTA ICCOM. X	나를 되는 어느 사람들이 가득 사람들이 하루 바람들이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
Į.	2005 20 2008 4C		JSR CIDCL JMP DFCX	DO THE WRITE CLOSE AND EXIT
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$\cap$			BAVE FILE ROUTS	
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c	20E0 AD 20E3 48	B1 14	LDA OPT	
ì	20E4 AE		LDX PTR	PUT EOL ON FILENME
$\circ$	20E7 A9 20E9 9D		LDA #CR STA PAR-1, X	
	20EC 20	BA 24	JSR CETNO	GET HEX PARAMETER
$\cap$	20EF 8D 20F2 8E		BTA LDST BTX LDST+1	
· (	20F5 20	BA 24	JBN CETNO	END ADDRESS
(S)	20F8 8D 20F8 8E		STA LDND STX LDND+1	on the state of the
	20FE 2C 2101 10		BIT PER	SEE IF PARAM ERRORS
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$\Theta^{-'}$	2106 69 2108 8D 2108 66	QQ B1 14	LDA #0 B1A OPT PLA	OPTION CHAR FROM FILENAME
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ი ′ ი [	2106 69 2108 8D 2108 66	00 B1 14 41 03 B1 14	LDA #0 BIA OPT PLA GMP #1A BNE #15 DEC OPT	OPTION CHAR FROM FILENAME
9	2106 A9 2108 BD 2108 A8 2106 C9 210E DO 2110 CE	00 B1 14 41 03 B1 14 10	LDA #0  BIA OPT PLA CMP #'A  BNE #+5 DEC OPT N JIE FILE LDX ##10	OPTION CHAR FROM FILENAME  IF APPEND  BET OT **********************************
1	2106 A9 2108 BD 2108 68 2106 C9 210E DO 2110 CE 2113 A2 2115 A9	00 B1 14 41 03 B1 14 10 03	LDA #0  BIA OPT PLA CMP #'A  BNE #+5 DEC OPT N JIE FILE LDX #\$10 LDA #0PEN	OPTION CHAR FROM FILENAME  IF APPEND  BET OT****  O
o [	2106 A9 2108 BD 2108 68 2106 C9 2106 DO 2110 CE 2113 A2 2113 A9 2117 9D 211A 2C	00 B1 14 41 03 B1 14 10 03 42 03 B1 14	LDA #0  BIA OPT PLA CMP #'A BNE #+5 BEC OPT N JIME FILE LDX ##10 LDA #OPEN BIA ICCOM, X BIT OPT	OPTION CHAR FROM FILENAME  IF APPEND  BET OT****  O
9	2106 A9 2108 BD 2108 68 2106 C9 210E DO 2110 CE 2113 A2 2115 A9 2117 9D	00 B1 14 41 03 B1 14 10 03 42 03 B1 14 04	LDA #0  BIA OPT PLA CMP #'A  BNE #+5 DEC OPT N DIE FILE LDX #\$10 LDA #OPEN BTA ICCOM, X	OPTION CHAR FROM FILENAME  IF APPEND  SET OT****  O
o [	2106 A9 2108 BD 2108 A8 210C C9 210E DO 2110 CE 2113 A2 2113 A2 2115 A9 2117 9D 211A 2C 211D 30	00 B1 14 41 03 B1 14 10 03 42 03 B1 14 04 04 08	LDA #0  BIA OPT PLA  CMP #'A  BNE #+5  DEC OPT N JHE FILE  LDX ##10  LDA #OPEN  STA ICCOM, X  BIT OPT RMI #+6	OPTION CHAR FROM FILENAME  IF APPEND  SET OT****  O

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Ω	COLLE	EN DISK	UTILI	TIEB		
0	<u> </u>	2128 20 (	C2 23	) LRITE		C LOCL JE HEADER
	<u>L_:</u>	2128 A2 212D A9	DA	4: 7 2222 - 7	LDA	##10 #PUTCHR
1	[	212F 9D   2132 2C   2135 30	B1 14		BIT	ICCOM, X OPT IF APPEND, UDR DONT URITE ANDTHER HEADER
ا ا ن	1	2137 A9   2139 9D   2130 A9	44 03		BTA	ICBAL, X
0		213E 9D	45 03 02		BTA L.DA	ICBAH, X
0		2143 9D 2146 A9 2148 9D	00		LDA	ICBLL, X 40 ICBLH, X
່ . ດ		2149 20	C2 23	WRITE	JSR DATA REC	CIOCL
$\cap$		214E A2 2150 A9 2152 9D	04	<u>udr</u>	LDA .	9910 94 ICBLL, X
	l	2155 A7 2157 9D 215A A9	49 03		BIA	ICBLH, X GDTHL DATA RECORD HEADER
:	[	215C 9D 215F A9	44 03 14		BTA LDA	ICBAL, X ODTHI SECTION OF SECTION
O		2161 9D 2164 20 2167 A2	C3 53		JBR	ICBAH, X CIOCL NO. HRITE DATA REC HDR
$\mathcal{O}$		2169 38 2164 AD	BP_14		BEC LDA	LIND
0	·	216D ED 2170 9D 2173 AD			BTA 3	LDST ICBLL, X LDND+1
· 0		2176 ED 2179 9D 217C FE	49 03			LDBT+1 ICBLH, X ICBLL, X
0		217F DO 2181 FE	03 49 03		BNE INC	#+5 ICBLH, X
0	L	2184 AD 2187 9D 218A AD	44 03		STA	LDBT ICBAL, X LDBT+1
0	1	2190 9D 2190 20	45 03 C2 23	<del>P</del>	BTA	ICBAH, X
		2193 A2 2195 A9 2197 9D	QC		LDX LDA BTA	#\$10 #CLORE ICCOM, X
O.	[	219A 20 219D 4C 2100 53	91.14	BFMO	JSR .IMP . BYTE	MENUSL DUNE.
0		21A3 45 21A6 47	2D 2D 49.56			
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and the second s		BUBR	OUTINEB	<u></u>		
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	INITI	O - CLOBE ANY OPE	EN 10CBB			
21BC A2 70 21BE BD 40		LDX 0070 LDA ICHID. X				
21C1 C7 FF 21C3 F0 06	)	CMP ##FF REG NXIOCB	CHECK FOR CLOSED TOCK ALREADY CLOSED, CHECK NEXT 10	ocb		
2105 A9 00 2107 9D 42 210A 20 58	2 03	LDA #CLOBE BTA ICCOM, X JSR CID				
21CD BA 21CE 3B	NXIOCE	TXA BEC	andres and the second s			
21CF E9 10 21D1 AA	n en	BBC ##10	The state of the s			
21D2 10 E/ 21D4 A2 00		BPL 1101 LDX 60	REOPEN LOCAD TO EL			
2106 A9 03 2108 80 42	2 03	EDA OPEN BTA ICCOM				
21DB A9 EE 21DD 8D 44 21EO A9 21	03	BTA CECL  BTA CECH  LDA CECH				
21E2 8D 45 21F5 A9 00	03	BTA ICBAH		Carried Committee of the Committee of th		
21E7 9D 47 21EA 20 56	A 03	STA ICAX1, X JSR CIO		and the second		
21ED 60 21EE 45 3/	√ 98 EC	RTB "E: ", CR				
0021 00EE	ECH ECL	HILO EC   EC/256   EC/256	u.er		The state of the s	
	1	200-20				
21F1 A9 9E 21F3 A2 4F		LDA #CR LDX #79				
21F5 9D 51 21FB CA		BTA LINE, X DEX BPL 4-4				
21F9 10 F/ 21FB A9 00 21FD BD A6		LDA 40				
2200 BD AF	. 11	BIA JPTR BIA PER				Late Control of the C
2206 20 0t 220 <b>9</b> 20 88	) 22	JSR CIDGET JSR SCROL	ennyaga k. 1° siajah ding sepusia neminintana akk. Manyanan neber sebuah 1800-00 menebabk . 4.	u van van van van eersper oogs om de meeter meeter valdende eerste eerste eerste eerste eerste eerste eerste e		
220C 60	•	RTA				
and the second s	. C100E	T - GET LINE OF 1	INPUT FROM SCREEN EDITOR			
220D A9 0		LDA #GETROD	+TEXT			
220F 8D 42	2 <b>03</b> - 5 Lagranda - 1	BTA ICCOM	BCREEN EDIT 10CB			
2217 A9 13		BTA ICBAL LDA WLBUFH			•	•

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	COLLEEN DISK UTILITIES		to the control of the
م [		LDA 000 BTA ICBLL	
``		LDA 40	The state of the s
····	2223 BD 49 03	BTA ICBLH	
ن		LDX #0 JSR CIO	READ RECORD FROM BCREEN EDITOR
. [	2229 CO 80	CPY ##80	CHECK FOR BREAK ABORT BYATUB
$C \mid \cdot \mid$	• • • • • • • • • • • • • • • • • • • •	BNE #+5 DEC PER	PARAM ERROR FLAO 18 BET IF BO
L		PEL FEN	Littud billiair i sita ta ana tauran manan m
$\mathcal{C}$			
ر آ	CHROET	- GET I CHAR	FROM EDITOR IN A.
$\cup$	2233 A9 00 CHROET	LDA #0	
l	2235 BD A2 14	BTA PER	
$\odot$		JSR CIOGE	PAVE CHAR COUNT
		BTA RCNT	
$O \vdash$		JER BCROL	
<u> </u>	2244 AD A2 14	LDA PER BPL CHRO2	IF BREAK, CLOSE AND EXIT
$\circ$	2249 20 FB 23	JER CLOSX	
	224C 4C 91 16	LDA RENUS	TO EVERATE THE BURNADARTEDA CONTROL OF A CON
ol	224F AD A4 14 CHR02 4	CMP 3 43	
Ĺ	2254 30 0A	BMI CHRO3	1 1 to the second of the secon
$\circ$		LDA . WOLL LDX WOLH	
	225A 20 61 23	JER DEPLI	
~ [	225D 4C 38 22	JHP CHRO1	TRY AGIN DET 18T CHAR
O		ATB STA	。 [1] "我们的一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是
<u>۔۔</u>	2264 50 4C 45 OL.	BYTE "PLEA	E TYPE I LETTER", CR
C)	2267 41 53 45 226A 20 54 59	•	
· [-	226D 50 45 20	and the second of the	
$C \vdash$	2270 31 20 4C		
Ļ	2273 45 54 54 2276 45 52 98		(
$\bigcirc$		HILO OL	
·	0022 GIH	- OL/25 -256*	
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L	PERX -	EXIT IF PARA	
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_	227C 30 01 227E 60	DMI PERXI	
0	227F 6B PERX1	PLA	
L	2280 68 2281 4C 71 16	PLA MENUS	The contract of the contract o
71 ·			
	elf1)c	READ LINE	GET FILFNAME, POINT TO-IT IN TOCB1
•	green en proposition de la company de la	1.11	

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	COLLEEN DISK	UTILITIES		
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C	2290 A9	OB CETNAME	LDA #8	
$\circ$	2292 BD 2295 AC	BO 14	BIA CTR LDY PTR	
` '	2298 AE	AF 14	LDX IPTR	
0	229B 4C	F4 22	JHP CFTE	
.		, <u>ne- eu</u>	EBPEC FROM INPL	MOT A TANT
Ο,	229E AC		LDY PTR	Of Line
į	22A1 AE 22A4 A9		LDX IPTR	
$\cap$	22A6 BD		STA CTR	V VERY PIORT PARAMB
, I	22A9 BD	51 13	LDA LINE, X	LYENY PROPERTY LENGTH
$\mathcal{O}_{\mathcal{A}}$	22AC C9 22AE F0		CMP W'.	
0	2280 C9 2282 F0	78	CHP #CR BEG ADDC	
•	2284 BD	52 13	LDA LINE+L	
0	2287 C9 2289 F0	2C 22	CMP #'. BEG OT1	$\gamma$
1	2288 C9 2280 F0	78	CMP #CR	
$\cap$	22BF A9	AB	LDA	LOOK FOR IN FILESPEC
_	22C1 DD 22C4 FO		CHP LINE+R, BEO CFTE	REE IF HAVE COMPLETE FILESPEC ALREADY
$\bigcirc$	22C4 DD 22C7 DO		CMP LINE+1, BNE QT1	l•X
0	22CB CE 22CE BD	BO 14	DEC CTR	
()	22D1 C9	41	CMP #'A LINE, X	
0	22D3 10	IF FALL	BPL CFTE 8 THRU, IS UNIT	HAVE X: FILE, COMPLETE FILESPEC IT: FILE, ADD D
` .	22D5 A9 22D7 99	44 972	LDA O'D BTA PAR, Y	
$\cap$	22DA CB		INY	
į	22DB 10 22DD CE		BPL CFTE DEC CTR	The state of the s
U.	22E0 DD 22E3 FO		CMP LINE, X BEO GT2	X AN UNLIKELY CASE (:FILE) TREAT :FILE AB U:FILE
$\circ$	22E5 CE	BO 14	DEC CTR	
,	22EB A9 22EA 99		LDA 6'D STA PAR, Y	。 [1] [1] [1] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
0	22ED CB 22EE A9		INY EDA <b>0</b> ':	o de la companya de
	22F0 99	27_13	STA PARLY	
0	22F3 CB 22F4 A9	00 CFTE	LDA 60	
	22F4 BD 22F9 BD	51 13 CFTE1	STAOPT_ LDA LINE, X	K .
<u> </u>	22FC 99 22FF EB	27 13	BTA PAR, Y	$\mathbf{Q}$
	2300 CB		INY	A COLUMN TERMINATOR
	2301 C9 03 F0	2C	RFG EDC	LOOK FOR TERMINATOR
	.05 C9 2307 F0		CMP #', DEG EDC	
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0	2308 F0 230D C9 230F D0	2E			BEQ CMP BNE	POPT W'. CFTE2	LDO	K FOR	BTAR	T OF	EXT					* ************************************			- <del> </del>					7
<u> </u>	2311 A9 2313 80 2316 CE	04 BO	14	CFTE2	LDA BTA DEC	#4 CTR CTR	FOU	ND. 4	MORE	CHAR	XAM B							<del></del>						/"1
0	2319 10 2318 A9	ĎĒ	<del>ाँ हैं सहा</del> -	I CETA H	BPL	CFTE1 OD MANY WNTLL	CHAR	B IN	FILEN	AME					-		14							$\circ$
<u> </u>	231D A2 231F 20 2322 CE	61			LDX JBR DEC	#NTLH DBPLIN PER		E TOO			R FLAG	)												
	2325 BD 2328 EB 2329 C9		13	BTE	LDA INX CMP	LINE, X	BKI	P TO I	END											, , , , ,	•			()
0	2328 F0 2320 C9 232F D0	98 F4			BEQ CMP BNE	EDC OCR STE									Ų				<del></del>	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	)
	2331 BE 2334 BC 2337 60	AE	14	EDC	BTX BTY RTS	IPTR PTR	je del r <u>Production</u>			dy'in	- 1							12 November 1						73
0	2338 BD 2338 BD 233E E8	B1	14	POPT	LDA BTA JNX	LINE, X OPT	- <del></del>	<del></del>		<del></del>							<del> </del>	<del> </del>	<del>Tagis - S</del>	<del> </del>	<del>,</del>			
	233F BD 2342 99 2345 E8	28			EDA BTA INX	PAR-1.	/ CHAI	NOE B	TORED	TERM	INATOR	TO .	OR CR	1 H	PE .									() < -
( )	2346 10 2348 4E 2348 45	41 20	.54	NTL	BPL . BYTE	EDC "NAME	roo Li	DNO". (	CR	1112	ينسنان مست		1 7 - 1 800 - 1850 I	<del>- , , , ,</del>		or with					O. 11.200	Van een ee	ाक हता. जनकारता	
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C.	0023 0048		्र जनसङ्	NILH NILL	HILO	NTL NTL/25/ <u>-2564N</u>		<b>1</b>	<del></del>	<del></del>		····	· · · · · · · ·				33.2	630 S.	yagare.	September		<u> </u>		$\mathbf{C}$
				DEPHE	- DiBP BUFFE	LAY N B' R POINT	iteb ir ani	D LEN	RTH_A	RE_ALI	READY	IN JOC	#Q											;*** <u>)</u>
الد ال	2356 A9 2358 BD 2358 A2	42	03	DSPMSO	LDA BIA LDX	WPUTCH ICCOM WO	1 .				<del>(                                    </del>				····	<del></del>	77. 5	e serse S		anen sa	(1:0 <b>4</b> )		<b></b>	$\circ$
0 [_	235D 20 2360 60	83	23	Maria	JBR RTS	CIOI							· 											· (*)
<u>்</u> டு	2361 20	A.A	23	DSPLIN	A-LO, X=	LAY DNE HI ADDRI D8PL1	LINE BB	OF TE	EXT						<del></del>				-				स्वत्रह	0
0	2364 20 2367 60	BE		•	JSR RTS	BCROL.										· · · · · ·			¥.				à S.	$\circ$
) 	2368 BE			DSPL1	STA	ICBAL ICBAH	. ADDI	RE88 (	DF LI	VE. TO	IOCB .		• • .				-		,		- 572		 	O
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	2383 2	20 50	5 E4	CIDI	JSR	CIO	CALL CIO AND GO TO MENUSI.	-
[	2386 (	:Ö 🛱(	)		CPY	<b>#</b> \$80	IF BREAK KEY ABORT	
	2388 I				JMP	#+5 MENUBL		
	538D 9	50			RTS			
				SCROL	- DO 80	ROLLING	OF AREA BELON HENU	•
	238É A	9 00		BCROL	LDA	<b>#</b> O		
	2390 4	Μ.	i day		TAX	1:		
	2391 9 .2394 <i>A</i>			•	ETA LDA	ICBLH, )	X	
·	2396 9	D 46	03		ATB	ICBLL,)	×	
	2399 A				LDA	WZAPH ICBAH, X		
يور ومومي فعالم مطبعة مادد كالماحة	239E A	9 A		A.V	LDA	WZAPL		
*	23A0 9				eta Jer	ICBAL, X		
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				LPINCE	- POINT	TOCH AT	T. PAR(PTR)	
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	23B7 9	D 44	03	Med San	BTA	ICBAL, X		
	23BA A				LDA	#PARH		
	23BE 9			•	BTA	ICBAH, X	<b>x</b>	
	5301 9				RTB			لتحب
	5301 9		W. 1. Care December 1981	CIOCL		hadayada ee ee aasaa gaaba aya	PROCESS ANY ERRORS	
		· · · · ·			- CALL	CIO AND		
	2302 2 2305 9	0 54	E4	CIOCL	- CALL	CIO AND	PROCESS ANY ERRORS CALL CIO	
	23C2 2 23C5 9 23C6 3	0 54 8 0 01	E4		- CALL JSR TYA BMI	CIO AND	CALL CIO	
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	23C2 2 23C5 9 23C6 3 23C8 6 23C9 9 23CA 3	0 54 8 0 01 8 8	E4	CIOCL CIDERI	JSR TYA BMI RTS TYA BEC	CIO AND CIO	CALL CIO  OK, RETURN ERROR STATUS	
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	23C2 2 23C5 3 23C6 3 23C8 6 23C9 7 23CA 3 23CB E 23CD A 23CD A 23CD 3 23D1 E	0 54 8 0 01 0 8 9 64 2 2F 9 0A	E4	CIDERI CIDERI CIDER	JSR TYA BMI RTB TYA GEC GIIC L DX INX SEC GBC	CIO AND CIO #+3 #100 #*0-1	CALL CIO  OK. RETURN ERROR STATUS  ERROR NUMS ALWAYS ARE IXX DEC CONVERT TENS	
	23C2 2 23C5 9 23C6 3 23C8 6 23C9 9 23CA 3 23CB E 23CF E 23CF E	0 54 8 0 01 0 01 9 64 2 2F 9 0A 0 FA	E4	CIDERI CIDERI CIDER	JSR TYA BMI RTB TYA GEC GIIC L DIX JINX SEC	CIO AND CIO ##3 #100 #*0-1	CALL CIO  OK, RETURN ERROR STATUS  ERROR NUMS ALHAYS ARE 1XX DEC CONVERT TENS	

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$\bigcirc$		23EB 41 23EE 41	52	2D	CIE	. BYTE	ENRUK-					•						
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( ;		0023			CIEH	# HYFD	CIE/254								<u> </u>			
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$\circ$		23F8 A			CLOBX	LDA	#CLDSE	10	ciose i	OCBS_10, 2	O							
		23FA BI 23FD BI	0 62			BTA	ICCOM+#			ZKEH-TAID								·"
$\Box$	•	2400 A	36 (	E4		LDX JBR	##10 CID						<del> </del>		e nga mengan	• • • • • • • • • • • • • • • • • • • •		<del></del>
0		2405 Å 2407 20	2 20			LDX JBR	##20 CIO											_
	L	240A 6	<b>D</b>			RTB . IF	SYBRES	3 45					10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<u> 1887 (1986) (1</u>			≨
()					•		010112		٠					·				Į,
	[			7.5	LOAD	- THIB	SUBROUT IN	E .										7
						INTO	MEMORY,_	HE FILE RETURNO:	(MUST BE	LOAD FOR	mai)		<u> </u>					
0					j	X=O LO	AD OK EN ERRORS											
						X=2 RE	AD ERRORS	Y=010 0	ODE	<u>त्र राज्यसम्बद्धाः दश</u>	<del>)</del>			1 4 (44)	1 (1425)   F.			लम् ।
0					ON EA	TRY. IO	CB 1 POIN	T8 TO F1	LENAME.			i i						
		240B A	2 10		LOAD	LDX	##10	. ip. q							<del></del>	· · · · · · · · · · · · · · · · · · ·		
0		24QD A' 240F 9	9 03	03		LDA BTA	NOPEN ICCOM, X			•								7.00
0		2412 A	7 04	¥		LDA	64 ICAX1, X	OPEN TY	PE-INPUT									* [ ] o
		2414 91 2417 2	0 56		<u> </u>	_J3H	CIQ	_1RYTO_	OPEN FIL	.E					<u> 1977 - 1985 -</u>			لـــــا
0		241A 10 241C A		•		BPL LDA	RDLF #1	CONT IF	RORS				.*					
<u> </u>		241E D 2420 A	0 4F_	<del></del>	RDLF	L DX	CLFX	CLOSE /	ND_EXIJ			,			<del></del>			
0		2422 A	7 A1	03.		LDA BTA	ODBUFL ICBAL, X			· •.								
1		2424 9 2427 A	9 13			L DA	<b>ODBUFH</b>			•			. "					0
0		2427 7 2420 A	7 02			91A _ I.DA	62			• .								
		242E 9 2431 A		03		9TA LDA	ICBLL, X											•
1		<b>M433 9</b> 36 A	D 49	03		AFB AG I	ICBLH, X						a a					
		:438 9		03		914	ICCOM, X											\

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ţ		•		
Ω	COLLEEN DISK	UTILITIE8	$oldsymbol{\sigma}$	
$\mathcal{C}$	243E 30 2440 A9		MI ERST IF ERRS	
0	2442 CD 2445 DO 2447 A9	3A	MP DBUF CHECK FOR VALID LOAD FILE	
	2449 CD 244C DO	A2 13	DA ##09  HP DBUF+1  NE LNLF	
1	2450 A9 2452 9D	AI	.DX	
$\circ$	2455 A9 2457 9D	13 45 03	DA #DBUFH	
0	245A A9 245C 9D 245F A9	48 03	DA 04 ITA ICBLL, X DA 00	
$\circ$	2461 9D 2464 20 2467 10	49 03 56 E4	TA ICBLH.X  PER CIO NO ERROR CHECK 90 CAN CATCH EOF  PL STOK IF NO ERROR	1
$\circ$	2469 CO 2468 DO	88	PY ##88 SEE IF EOF NE ERST IF SOME ERROR STATUS ONE, EXIT	
Ö	246D A9 246F 48 2470 98	<del></del>	DA 40 DK STATUS	
0	2471 48 2472 A2 2474 A9		HA DX #010 DA @CLORE	
6	2476 9D 2479 20 247C 68	42 03	ITA ICCOM. X SR CIO	A PER
$C^{\downarrow}$	247D AB 247E AB 247F AA			
$\circ$	2480 60 2481 A9		TS DA #3 HAD LOAD FILE	
$\circ$	2483 DO 2485 A9 2487 DO	02 ERST EA	NE CLFX DA #2 READ ERRS NE CLFX	
<i>(</i> *)	248E 9D	A1 13 44 03	DX ##10 DA DBUF HOVE PARAMS TO IDCH TA ICHAL, X	
()	2494 9D 2497 AD	A2 13 45 03 A3 13	DA DBUF+1 TA ICBAH, X DA DBUF+2	
(";	249A 3B 249B ED 249E 9D	A1 13 48 03	BC DBUF TA ICBLL, X	
$\circ$	24A4 ED 24A7 9D	A2 13 49 03	DA DBUF+3 UC DBUF+1 TA ICBLH, X	
	24AA FE 24AD DO 24AF FE	48 03 03	NC ICBLL, X	
•	24B2 20 24B5 30 24B7 4C	56 E4	SR CIO READ DATA DIRECITLY TO MEMORY MI ERST IF ERRS MP RDDRC GO READ NEXT DATA REC.	
	L	C. C. March and Administration of the Company of th	ENDIF	

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	COLLEGN DIBK UTILITIES	
	WALLEN DAGE VILLIAND	en de la companya de
$\cap \lceil$		RETURN A-LO, X-HI. PER BET MINUS IF ERROR. INC IPTR PAST PARAM.
∩, 	248A A9 04 GETNO 248C 8D 80 14 248F A9 00	LDA #4 MAX NO DIGITS STA CTR LDA #0
0	24C1 BD B2 14 24C4 BD B3 14 24C7 AE AF 14 GHB	BTA T1 BTA T1+1 INIT TEMP TO BUILD NUMBER IN LDX IPTR
$\cap$	24CA BD 51 13 24CD EE AF 14 24DO C9 9B	LDA LINE, X GET CHAR INC 1PTR CNP GCR SEE IF TRMINATOR
$\cap \left[ \right]$	24D2 FO 2B 24D4 C9 2C 24D6 FO 27	BEO OND CMP 44 0', BEO CND
$O_{-}$	2408 20 3A 25 2408 30 29 2400 AO 03	JOR HEXCON CONVERT ABCII TO NIBBLE  BMI ERRX IF ERROR LDY #3 SHIFT T1, T1+1 BY 4
	24DF 18	, CLC RDL T1+1 RCL T1
Ο	24E6 88 24E7 10 F6 24E9 0D B3 14	DEY BPL SHT1 OR IN NEW MIBBLE
c [	24EC BD B3 14 24EF CE BO 14 24F2 10 D3	BTA T1+1 DEC CTR COUNT DIGIT BPL CHB LOOP UNLERS TOO MANY DIGITS
( <u>,</u> )	24F4 A9 OC 24F6 A2 25 24F8 20 61 23 FRRX1	LDA OTHDL. 7 LDX OTHDH  JBR DBPLIN
$\cap$ $\lfloor$	24FB CE A2 14 24FE 60 24FF AD B3 14 CND	DEC PER RTS () LDA T1+1
$\circ$	2502 AE B2 14 2505 60 2506 A9 1C ERRX	LDX T1 RTS LDA GIHPL INVALID HEX PARAM
$\cap \lfloor$	2508 A2 25 250A B0 EC 250C 54 4F 4F THD	LDX #IHPH BNE ERRX1 BYTE "TOO MANY DIGITS", CR
$^{\circ}$	250F 20 4D 41 2512 4E 59 20 2515 44 49 47	
0	2518 49 54 53 2518 98	MILO THO
) '		TMD/256 TMD/25
) 	251F 41 4C 49 2522 44 20 48 2525 45 58 41	Company of the control of the contro
o L F		C
•	2531 41 52 41 2534 4D 45 54 77 45 52 98	

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COLLEEN DISK UTILITIES HEXCON - CONVERT ABCII CHAR IN A TO HEX NIBBLE IN A. RETURN MINUB CONDITION, A-FF IF ERROR. HEXCON BEC 253A 38 0'0 253B E9 30 BBC BMI ERRX2 ABCII BELOW 'O' 253D 30 OF 253F C9 0A CHP #10 0-7 CONVERTED BO EXIT OKX BM1 2541 30 OD 2543 38 BEC 2544 E9 07 SHC #'A-'0-10 CONVERTED VALUE MUST BE 10 OR HORE CHP #10 2546 C9 OA BETHEEN '9' AND 'A' ERRX2 DMI . 2548 30 04 254A C9 10 CMP 4410 A-F CONVERTED BMI OKX 254C 30 02 ##FF ERRX2 L.DA  $\bigcirc$ 254E A9 FF CMP 2550 C9 00 2552 60 RTB ()

	•		
	COLLEEN DISK UTILITIES		
			- GET A DEVICE NUMBER FROM LINE(IPTR) N IT IN A
	2553 2C A2 14 9 2556 30 27	ETDN BIT BMI	PER BEE IF PARAM ERROR ALREADY ODR IF SO DONT BOTHER
	2558 AE AF 14	LDX ETD LDA INX	IPTR LINE, X
	255F C9 44 2561 F0 FB 2563 38	CMP BEQ SEC	W'D IF DN QETD QU QET DIGIT
	2564 E9 30 2566 F0 1B 2568 30 16	BBC BEG BMI	#'O CONVERT DIGIT BDS CANT BE ZERO BDS 1F NOT DIGIT
	256A C9 05 256C 10 12 256E 48	CMP BPL PHA	#5 BDS TOO LARGE
		DI LDA INX CNP	LINE, X
	2575 F0 04 2577 C9 9B 2579 D0 F4	BEO CMP BNE	QDX IF TERMINATOR  WCR  QD1 KEEP LOOKINO
	257E 68	DX STX PLA DR RTS	IPTR ADVANCE POINTER
	2580 CE A2 14 B 2583 A9 8B 2585 A2 25	DEC LDA LDX	PER UNDBL NEED DEVICE BPEC MBO UNDBH
	2587 20 61 23 258A 60	JER RTS IDS BYTE	DBPLIN  "NEED D1 THRU D1" CR
	258E 44 20 44 2591 31 20 54 2594 48 52 55		
	2597 20 44 34 259A 98	H11.0	
		DBL =	ND8/256 -256*ND8H+ND9
	]		REDIRECTION HANDLER  QQICAL DEVICES ARE CREATED: THE HANDLER ADDRESS
- · <del>-</del> ·		POINTS AT OPE	HERE. THE DRN LOOKS UP THE PHYSICAL DEVICE SPEC N TIME AND CALLS THE APPROPRIATE HANDLER. THE LOCS N ID IS THEN SET TO THAT HANDLER SO CID CALLS AFTER
	259B II	- THE OP	EN GO DIRECTLY TO THAT HANDLER.
	0025	HILO RIM = RM =	DRH DRH/256 ~256*DRHI+DRH
			R VECTORS (ONLY OPEN IS USED)

. WIRD EOPEN-1

98 F7 25

COLLEEN DISK UTILITIES UNUBED RTB INIT ROUTINE 25A7 60 TABLE OF PHYSICAL DEV: FILSPECS 25/8 #=#+BO  $\bigcirc$ HILD PDST PDBTH PDST/256 0025 -256\*PD8TH+PD8T BAOO PDETL EOPEN LDY 25F8 A0 00 (ICHALZ), Y OET LOGICAL DEVICE NAME LDA 25FA B1 24 SEARCH LOO DEV NAME TABLE 25FC 20 2E 1C JSR FLD8 IF FOUND IT OK 25FF 10 03 BPL FLD I INTERNAL ERROR IF WE GOT HERE. BBAC **NEW ERROR** 2601 AO AC **IERR** LDY 2603 60 RT9 HERRX CREATE POINTER TO PHYSICAL DEVSPEC 2604 BA FLD TXA ICIDNO GET TOCH . 2605 A6 2E LDX ASL. 2607 OA 2608 OA ASL. 2609 OA 260A 0A ADC SP DETL 240B 69 AB TCBALZ 260D 85 24 STA ICBAL, X FOR FMB 260F 9D 44 03 2612 A9 00 LDA 60 **MPDSTH** 2614 69 25 ADC BTA I CBAHZ 2616 85 25 2618 9D 45 03 ATE ICBAH, X FOR FMS DEVERC OD FIND PHYS DEVICE HID/DNO 261B 20 9E E6 **JSR** HERRX IF ERRORS BCS 261E BO E3 2620 A5 21 LDA ICDNOZ ICDNO, X FOR FMB 2622 90 41 03 STA COMENT CET PHYS DEV HOLR OPEN ENTRY 2625 20 3D E6 JSR HERRX 2628 BO D9 BCB 262A 20 89 E6 JBR COHAND CO DO REAL OPEN THATS ALL RTS 595D 90 . END 

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<b>S</b> .	1		COLLFEN	DISK UT	ILITIES		•				
ŀ.											the control of the co
(				BYMBOL.			AE	121D	AEU	0013	
(			AAM AI-L	1F87 001D	ADDC ASP	22EB 1FA4	AF ABPT	131D 1ED2	AFH ASPX	_ 1EBA	
	L		HDS	2580	BLF	1CE5	BIFH	001C	BLFL	OOES	
Ü	)		HRKKEY	0011	BRMO	1B3E	BRUN	182C	HS1	1BD1	
	r		D82	18D1	BBM	_1BD7	BSM1	001B	BBML	<u>0007</u>	
$\overline{C}$			CARTST	BFFA	CBIT	1FAO	CDES	14AC 22F4	CDN	001D 22F9	
١.		•	CNBK CF1E2	1AF2 2316	CEND CHR01	1E06 2238	CFTE CIRO2	224F	CFTE1 CHR03	2260	
	1		CHROET	2233	CIE	23EB	CIEH	0023	CIFL	OOEB	
C	)		CIFX	23E2	C10	E456	C101	2363	CIUCL	23C2	
			CTOER _	23CA	CIDERI	23C9	CIDOET	220D	CKMEM	1FF2	
~	,		CKRB	1A27	CLD1	1FDA	CLDKH	1FD2	CLF	001E	
1	- 1		CLFX CLOSE	246F 000C	CLOSX	1	CLDOP CLBCR	19FA 007D	CLD81 COMENT	E63D	· · · · · · · · · · · · · · · · · · ·
	ι		CPMO	190D	CPBL.	1C12	CPTRI	2008	CPYFIL	1936	
(	`		CR	009B	CRD	1COA	CRT	001F	CSRC	14AB	
			CBRCH	0014	CBRCL	OOAB	CTNB	23CF_	CIR	1480	
	. ſ		CUP	001C	DB1	1421	DB1H	0014	DRIL	0021	
C	,		DR3	139E	DB3H	6100	DB3L	009E	DBLH	0001 0305	
	l		DBUFL.	0000 00A1	DBUFLO DBUFLO	13A1 0304	DBUFH DCB	0300	DEUFHIL DCOMND	0305	
(	`		DDOFE.	1BA0	DDMQ	1D5A	DUSK	1AEF	DDXT	IFED	
`			DEDE	1855	DEFDEV	1876	DELETE	0021	DELFIL	178A	
	. [		DELX	18D5	DEMO	IBFC	DEVSRC	E69E	DF 1	17E3	· [11] [11] [12] [12] [13] [14] [15] [15] [15] [15] [15] [15] [15] [15
$\mathbf{C}$	۱ (		DFCX	2072	DIRLET		DKI IND	E453	DKHRT	: 1FD0	
	1		N.L	_009C	DLMO	1798	DLSTO	1798_	DLSTI	178B	
(	`		DMEND	1607	DMENU	1407	DMENUH	0014	DMENUL DOSOS	00C7	
١.	•		DOCPY DOSOSH	19DA 0016	DORD DOSOSL	1E9C 0025	DOS DOSVEC	1300 _000A_	DOSUB	1F00	
	ſ		DOM DOMANII "	1EBE	DPFM	2009	DRH	259B	DRIM	0025	
(			DRIM.	009B	DRTS	1FEC	DS	1CA7	DBH	001C	
	l		DOHL	030B	DBHIH	0003	DSHIL	0008	DSKUTI.	1450	
٠.			D31.	00A7	DSLO	030A	DBLOH	0003	DSLOL	000A	
Ç	)		DBPL.1	2368	DBPLIN	2361	DSPMBO	2356	DSTATE	0303	
	ſ		. 193X 1901	18C0 1650	DU3	1488 1451	DTHH DU4	0014 1A44	DUJPT	1607	
0	<b>\</b> :		DUJPTH	0016	DUJPTL	0007	DULEN	0140	DUL ENH	0001	
			DULENL	0040	DUNIT	0301	DUNUM	000F	DUPDSK	-	
			DUPFIL	201F	DWO	17F7	FC	21EE	t-CH	0021	
(	. 1		EC1	OOEE	EDH	0014	· EDL	00C1	EDN	14C1	
	f		FNUF	1E66	EDC	_2331	<u> EOPEN</u>	_25F8	FRRX	_ 2506	
r			ERRXI	24F8	ERRX2	254E	ERST	2485 001A	ETN FDPL	23F5 00F1	
ţ	1		EUN FLD	23F6 2604	FDP FLD8	1AF1 1CPE	FDPH FLDX	103B	FLL	1C30	
	1		FHINIT	0788	FM8	0700	FMTDSK	1487	FMX	1ABD	
(	١. `	•	FORMAT	OOFE	QC1	19DC	eni	256F	OIM	257F	
			enx	257B	GETCHR	0006	GETD	_255B_	CETON .		
_	.		GETFIL		OETIC1	2284	CETLIN		GETNAM		
(	2		OETNO	24BA	CETRCD	0004	CHB	2407	OI:F	1759	
	ı		OND	24FF	_QOHAND_ DATR	E687 1C21	HATSL	22DD 1C23	STO	22D5 1C2D	
C	· )		HATABS HERRX	031A 2603	HATB HEXCON		IBD	1623 1E0E	IBDH	001E	
	•		1BDL	000E	ICAX1 _		ICAX2	034B	ICBAH	0345	
	_ [		ICBNIZ		ICBAL	0344	ICBALZ	0024	ICBLH	0349	
			ICBLL	034B	1CCOM	0342	ICDNO	0341	ICDNOZ	0021	
	1		ICI	0340	ICHIDZ	0020	ICIDNO		ICSTA	0343	
			1100	1F63	IDDH	001F	IDDL.	0063	IMD	182A	

COLLEEN DISK UTILITIES IOD 1EC1 IPTR 14AF **IPTRH** 0014 **IPTRL** COAF 001F IROEN D20E **IBCAR** 1B06 TRD 1F44 1904 0014 13DL 0044 JMPTBL 001B KIN 14C4 **KDNH** KIM 00C4 LBUFH Ĉi ôô LBUFL 0051 LDF IL 1CB1  $\cap$ 259D LDGT 14BB LDFX 1CD5 LDND 14RD LDNT LKMQ 1D1D LFMC LINE 1351 LKFIL 1D08 1CF3 LNLF 2481 LOAD 240B LOADY 1319 LOCK 0023  $\bigcirc$ MAXDEV 0021 MDN1 187C I KS **IFAB** 1EAE LRB1 1894 MENLO 02E7 MEMTOP 02E5 MIN2 188C ENDM HNL. 14BB MENUBL 1691 MENUBZ 14A1 MNA 1486  $\cap$ MNSL. MNSLH 0016 MN3LL 0091 NCA 1B1E 1671 001E NDF 17D3 NDF-H 0017 NCAH CO1B NCAL. 008B ND9H 0025 NDSL NDI-L 0003 NDB 25BB 001F NIF 1CD8 NORM 1E5C NRM 1F34 NRMH 1DF5 NBI 16E2 **NBIH** 0016 0034 NBEC NICHE 0048 2348 NTLI 0023 NILL NSIL 00E2 NTL  $\alpha$ NXIOCB 21CD NXB 1FB2 **NDMR** 19AD Œ 191D 0019 001D OK 1D77 OKH 001D DEL UFH 2264 OL TIKL. 0077 DKS 207F DKX 2550 1903 OPDES 1987 OPDE81 01.11 0022 DLL 0064 1905 OPEN 0003 OPERC 1971 OPSRC1 1982 OP DEB3 0029 1329 0013 PARL 147 14B1 PAR PARH ()19A2 **PDST** 25A8 PDSTH 0025 PIEB 1998 PDE81 PDSTL BACO PER 14A2 PERX 2279 PERX1 227F PIÙĈĤ 23B î PME8 1718 PME SH 0017 PMESL 0018 47) POKMSK 0010 POPT 2338 PBMEN 16FB PSRC 1959 OOAE PUTCHR 000A PIR 14AE PTRH 0014 PTRL 001A RANCE 16DB PUTRCD 000B GWMO 1000 RAMLO 1857 RIME 2420 RCNT 1404 RDDRC 244E RDFN RNMO 1460 0020 RENFIL. 1A54 MUM 14BA RENAME RSEC 1 1FC5 RUNAD 02E0 RVTOC 1 D9A RSEC 1FBB BAVFIL BAVH 14BF BAVHH 0014 BAVHL OOBF 20DB 238E BDD 1E2D **BCMO** 1H2B **BCROL** SAVX 14AD SETUBU E45C BFM0 2140 SHELOK 02BE BHMEN 1671 BITL OOEF SHT 1 24DF BIT 16EF BITH 0016 1EF8 1AF5 1EE9 STDD1 SSTAT 1405 STCAR STDD STDD2 IEEE BTE 2325 BTF 1BBC BTOK STVEC **BU1** 1BF5 **BU2** 1BEF SHATH 1F2F 14B4 SHL OP 1F02 **BYSREB** 0001 SWATL 1F2A BWDP 1446 BYVBL E45F SYVBLH 00E4 SYVBLL 005F SYBUBU E45F ()TEXT 0001 16 1BCA TFII. 001B 11 14B2 0000 250C HUMT 0025 THIN. 0006 TMD 1FL TYO 10E6 TYGH 0018 TYGL 00E& ULFIL 1D30 1700 UL MO 1D45 UNLDCK 0024 UNNO 14A3 USRDO9 1AD7 00D7 WARMST 8000 VEMH QQ1A VFML VFM 006F MROOT 1C39 1C6F WBMOH 001C WBMCL HINC  $\circ$ 1ACO HIIIH 001A MHX 1C6C WDR 214E WHD XITUBU E462 XTVBL E462 1EA5 MIDL 0000 XBLK 0062 ZAP 23A7 ZAPH 0023 XIVBLH 00E4 XTVBLL 00A7

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