

Acorn DFS 0.9 – Disassembly & New Instructions

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New Instructions

Unless a new instruction is stated, locations with “Zero” flagged are changed to zero.

New instructions:

NOP
JMP
JSR
RTS

BRX – Change branch address
TGO – Modify address in table
BYT – Change byte

The “Tube Code” (783 bytes copied from the DNFS ROM) is inserted at location &8AC2.

New instructions with labels beginning with “mmc” are calls to the new code located at &A000 onwards. This code (written in BBC Basic Assembler) can be found on the DFS_4.ssd disk image.

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Label	Code	Zero	New Instruction	Comment
.languageentry	8000 00 00 00 ...	<input type="checkbox"/>		
.serviceentry	8003 4C 55 94 JMP SERVICE_claim_absworkspace	<input type="checkbox"/>		
.romtype	8006 82 ,	<input type="checkbox"/>		
.copyrightoffset	8007 11 .	<input type="checkbox"/>		
.binaryversionno	8008 5A Z	<input type="checkbox"/>		
.title	8009 44 46 53 00 30 2E 39 30 DFS.0.90	<input type="checkbox"/>		
.copyright	8011 00 28 43 29 .(C)	<input type="checkbox"/>		
.Go_FSCV	8015 6C 1E 02 JMP (FSCV)	<input type="checkbox"/>		
.errDISK	8018 20 5B 80 JSR Brk100_noerrno (term.=0 causes BRK)	<input type="checkbox"/>		
	801B 44 69 73 6B 20 Disk	<input type="checkbox"/>		
	8020 90 11 BCC Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
.errBAD	8022 20 5B 80 JSR Brk100_noerrno (term.=0 causes BRK)	<input type="checkbox"/>		
	8025 42 61 64 20 Bad	<input type="checkbox"/>		
	8029 90 08 BCC Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
.errFILE	802B 20 5B 80 JSR Brk100_noerrno (term.=0 causes BRK)	<input type="checkbox"/>		
	802E 46 69 6C 65 20 File	<input type="checkbox"/>		
Brk100_erno (term.=0 causes BRK)	8033 85 B3 STA &B3	<input type="checkbox"/>		save A
	8035 68 PLA	<input type="checkbox"/>		pull addr and store at AE
	8036 85 AE STA &AE	<input type="checkbox"/>		first byte=addr+1
	8038 68 PLA	<input type="checkbox"/>		
	8039 85 AF STA &AF	<input type="checkbox"/>		
	803B A5 B3 LDA &B3	<input type="checkbox"/>		restore A
	803D 48 PHA	<input type="checkbox"/>		save A & Y
	803E 98 TYA	<input type="checkbox"/>		
	803F 48 PHA	<input type="checkbox"/>		
	8040 A0 00 LDY #&00	<input type="checkbox"/>		
	8042 20 DA 83 JSR inc_word_AE	<input type="checkbox"/>		
	8045 B1 AE LDA (&AE),Y	<input type="checkbox"/>		first byte
	8047 8D 01 01 STA &0101	<input type="checkbox"/>		error number
	804A 2C DE 10 BIT &10DE	<input type="checkbox"/>		is counter already set??
	804D 10 25 BPL .prtstr_loop	<input type="checkbox"/>		if ?10DE<&80
	804F A9 02 LDA #&02	<input type="checkbox"/>		set counter
	8051 8D DE 10 STA &10DE	<input type="checkbox"/>		
	8054 A9 00 LDA #&00	<input type="checkbox"/>		?&100 = BRK
	8056 8D 00 01 STA &0100	<input type="checkbox"/>		
	8059 F0 19 BEQ .prtstr_loop	<input type="checkbox"/>		always go 8074
Brk100_noerrno (term.=0 causes BRK)	805B A9 02 LDA #&02	<input type="checkbox"/>		
	805D 8D DE 10 STA &10DE	<input type="checkbox"/>		add100 counter
	8060 A9 00 LDA #&00	<input type="checkbox"/>		
	8062 8D 00 01 STA &0100	<input type="checkbox"/>		?&100=BRK
prtstr (if term.=0,BRK 100,no return)	8065 85 B3 STA &B3	<input type="checkbox"/>		save A
	8067 68 PLA	<input type="checkbox"/>		pull "return address"
	8068 85 AE STA &AE	<input type="checkbox"/>		store at AE
	806A 68 PLA	<input type="checkbox"/>		
	806B 85 AF STA &AF	<input type="checkbox"/>		
	806D A5 B3 LDA &B3	<input type="checkbox"/>		
	806F 48 PHA	<input type="checkbox"/>		save A & Y
	8070 98 TYA	<input type="checkbox"/>		
	8071 48 PHA	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8072 A0 00 LDY #00	<input type="checkbox"/>		
.prtstr_loop	8074 20 DA 83 JSR inc_word_AE	<input type="checkbox"/>		1st: return addr + 1 = start
	8077 B1 AE LDA (&AE),Y	<input type="checkbox"/>		
	8079 30 08 BMI .prtstr_return	<input type="checkbox"/>		if >=&80
	807B F0 0D BEQ prtstr_BRK	<input type="checkbox"/>		if =0
	807D 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	8080 4C 74 80 JMP .prtstr_loop	<input type="checkbox"/>		loop
.prtstr_return	8083 68 PLA	<input type="checkbox"/>		return to code after string
	8084 A8 TAY	<input type="checkbox"/>		
	8085 68 PLA	<input type="checkbox"/>		
	8086 18 CLC	<input type="checkbox"/>		C=0
	8087 6C AE 00 JMP (&00AE)	<input type="checkbox"/>		A,X & Y as on entry to prtstr
prtstr_BRK	808A A9 00 LDA #00	<input type="checkbox"/>		terminate string with 0
	808C AE DE 10 LDX &10DE	<input type="checkbox"/>		
	808F 9D 00 01 STA &0100,X	<input type="checkbox"/>		
	8092 A9 FF LDA #&FF	<input type="checkbox"/>		reset 10DE pointer
	8094 8D DE 10 STA &10DE	<input type="checkbox"/>		
	8097 4C 00 01 JMP &0100	<input type="checkbox"/>		
prtfullstop	809A A9 2E LDA #&2E	<input type="checkbox"/>		Full stop!
prtchr/add100(10DE) A=Chr	809C 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		if ?&10DE<&80 then add100
	809F 2C DE 10 BIT &10DE	<input type="checkbox"/>		
	80A2 10 14 BPL prtchr_add100	<input type="checkbox"/>		
	80A4 48 PHA	<input type="checkbox"/>		save A
	80A5 20 1C 99 JSR osbyteEC chrdest&YxX	<input type="checkbox"/>		
	80A8 8A TXA	<input type="checkbox"/>		X=old value chr dest
	80A9 48 PHA	<input type="checkbox"/>		save X
	80AA 09 10 ORA #&10	<input type="checkbox"/>		disable spooled output
	80AC 20 17 99 JSR osbyte03 A=outstream	<input type="checkbox"/>		
	80AF 68 PLA	<input type="checkbox"/>		restore X(oldchrdest) & A
	80B0 AA TAX	<input type="checkbox"/>		
	80B1 68 PLA	<input type="checkbox"/>		
	80B2 20 E3 FF JSR OSASCI	<input type="checkbox"/>		print 'A' 0D=new line
	80B5 4C 18 99 JMP osbyte03 X=outstream	<input type="checkbox"/>		
prtchr_add100	80B8 AE DE 10 LDX &10DE	<input type="checkbox"/>		add chr at 100+?&10DE
	80BB 9D 00 01 STA &0100,X	<input type="checkbox"/>		
	80BE EE DE 10 INC &10DE	<input type="checkbox"/>		inc ?&10DE
	80C1 60 RTS	<input type="checkbox"/>		end
prthex(A) A preserved	80C2 48 PHA	<input type="checkbox"/>		
	80C3 20 05 82 JSR .A>>4	<input type="checkbox"/>		
	80C6 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	80C9 68 PLA	<input type="checkbox"/>		
prthexLoNib (A low nibble) A preserved	80CA 48 PHA	<input type="checkbox"/>		
	80CB 29 0F AND #&0F	<input type="checkbox"/>		
	80CD C9 0A CMP #&0A	<input type="checkbox"/>		A>=&A
	80CF 90 02 BCC &80D3	<input type="checkbox"/>		
	80D1 69 06 ADC #&06	<input type="checkbox"/>		yes A=A+6
	80D3 69 30 ADC #&30	<input type="checkbox"/>		A=A+30
	80D5 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	80D8 68 PLA	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	80D9 60 RTS	<input type="checkbox"/>		
copyvars((B0),Y to BC+X & (B0),Y+2 to 1072+X)	80DA 20 EA 80 JSR copyword((B0),Y to BC,X)	<input type="checkbox"/>		private+Y -> BC+X
	80DD CA DEX	<input type="checkbox"/>		private+Y+2->1072+X
	80DE CA DEX	<input type="checkbox"/>		
	80DF 20 E2 80 JSR copybyte((B0),Y to 1072+X)	<input type="checkbox"/>		
copybyte((B0),Y to 1072+X)	80E2 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	80E4 9D 72 10 STA &1072,X	<input type="checkbox"/>		??10
	80E7 E8 INX	<input type="checkbox"/>		
	80E8 C8 INY	<input type="checkbox"/>		
	80E9 60 RTS	<input type="checkbox"/>		
copyword((B0),Y to BC,X)	80EA 20 ED 80 JSR copybyte((B0),Y to BC,X)	<input type="checkbox"/>		
copybyte((B0),Y to BC,X)	80ED B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	80EF 95 BC STA TextPointer_dfs,X	<input type="checkbox"/>		
	80F1 E8 INX	<input type="checkbox"/>		
	80F2 C8 INY	<input type="checkbox"/>		
	80F3 60 RTS	<input type="checkbox"/>		
clear_(a)fsp	80F4 A9 20 LDA #&20	<input type="checkbox"/>		
	80F6 A2 06 LDX #&06	<input type="checkbox"/>		
.clear_(a)fsp_loop	80F8 95 C7 STA FilenameParam,X	<input type="checkbox"/>		
	80FA CA DEX	<input type="checkbox"/>		
	80FB 10 FB BPL .clear_(a)fsp_loop	<input type="checkbox"/>		
.clear_(a)fsp_exit	80FD 60 RTS	<input type="checkbox"/>		N set on exit
read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	80FE 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
	8101 20 F4 80 JSR clear_(a)fsp	<input type="checkbox"/>		
	8104 30 13 BMI .read_(a)fsp_cont	<input type="checkbox"/>		always
read_(a)fsp@(&BC) (ret.Y=Tpoffset nonblank)	8106 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
.clear(a)fsp&restoreTextPtr	8109 20 F4 80 JSR clear_(a)fsp	<input type="checkbox"/>		
	810C A5 BC LDA TextPointer_dfs	<input type="checkbox"/>		
	810E 85 F2 STA TextPointer	<input type="checkbox"/>		
	8110 A5 BD LDA &BD	<input type="checkbox"/>		
	8112 85 F3 STA TextPointerHi	<input type="checkbox"/>		
	8114 A0 00 LDY #&00	<input type="checkbox"/>		
	8116 20 BF 86 JSR GoGSINIT(terminator=spc/cr/)	<input type="checkbox"/>		
.read_(a)fsp_cont	8119 A2 01 LDX #&01	<input type="checkbox"/>		
.read_(a)fsp_next	811B 20 C5 FF JSR GSREAD	<input type="checkbox"/>		get C
	811E B0 DD BCS .clear_(a)fsp_exit	<input type="checkbox"/>		end of string
	8120 85 C7 STA FilenameParam	<input type="checkbox"/>		first chr
	8122 C9 2E CMP #&2E	<input type="checkbox"/>		ignore leading ...'s
	8124 D0 04 BNE .read_(a)fsp_not". "	<input type="checkbox"/>		C="."
	8126 A9 20 LDA #&20	<input type="checkbox"/>		
	8128 D0 4D BNE .read_(a)fsp_cont3	<input type="checkbox"/>		always
.read_(a)fsp_not". "	812A C9 3A CMP #&3A	<input type="checkbox"/>		C=":"
	812C D0 21 BNE .read_(a)fsp_not": "	<input type="checkbox"/>		no, else read drive no
	812E 20 C5 FF JSR GSREAD	<input type="checkbox"/>		get next C
	8131 B0 15 BCS .read_(a)fsp_baddrive	<input type="checkbox"/>		end of string = Bad drive
	8133 38 SEC	<input type="checkbox"/>		read drive no
	8134 E9 30 SBC #&30	<input type="checkbox"/>		N=val(C)

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Label	Code	Zero	New Instruction	Comment
	8136 90 10 BCC .read_(a)fsp_baddrive	<input type="checkbox"/>		C<"0"
	8138 C9 04 CMP #&04	<input type="checkbox"/>		
	813A B0 0C BCS .read_(a)fsp_baddrive	<input type="checkbox"/>		C>="4"
	813C 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	813F 20 C5 FF JSR GSREAD	<input type="checkbox"/>		get next C
	8142 B0 5C BCS .read_(a)fsp_exit	<input type="checkbox"/>		end of string - exit routine
	8144 C9 2E CMP #&2E	<input type="checkbox"/>		C=".", err if not
	8146 F0 03 BEQ .read_(a)fsp_":X."	<input type="checkbox"/>		
.read_(a)fsp_baddrive	8148 4C 74 83 JMP errBADDRIVE	<input type="checkbox"/>		Bad Drive error
.read_(a)fsp_":X."	814B A9 24 LDA #&24	<input type="checkbox"/>		
	814D D0 28 BNE .read_(a)fsp_cont3	<input type="checkbox"/>		always
.read_(a)fsp_not":"	814F C9 2A CMP #&2A	<input type="checkbox"/>		C="**"
	8151 D0 19 BNE .read_(a)fsp_not*2	<input type="checkbox"/>		
	8153 20 C5 FF JSR GSREAD	<input type="checkbox"/>		get next C
	8156 B0 08 BCS .read_(a)fsp_#	<input type="checkbox"/>		end of string
	8158 C9 2E CMP #&2E	<input type="checkbox"/>		C="."
	815A D0 32 BNE .errBADFILENAME	<input type="checkbox"/>		
	815C A9 23 LDA #&23	<input type="checkbox"/>		
	815E D0 17 BNE .read_(a)fsp_cont3	<input type="checkbox"/>		
.read_(a)fsp_#	8160 A2 00 LDX #&00	<input type="checkbox"/>		C7-CD="##"
.read_(a)fsp_endofstr	8162 A9 23 LDA #&23	<input type="checkbox"/>		"##"
.read_(a)fsp_#loop	8164 95 C7 STA FilenameParam,X	<input type="checkbox"/>		if *.* then C7-CD="#####"
.read_(a)fsp_not*1	8166 E8 INX	<input type="checkbox"/>		
	8167 E0 07 CPX #&07	<input type="checkbox"/>		
	8169 D0 F9 BNE .read_(a)fsp_#loop	<input type="checkbox"/>		
	816B 60 RTS	<input type="checkbox"/>		
.read_(a)fsp_not*2	816C 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	816F B0 2F BCS .read_(a)fsp_exit	<input type="checkbox"/>		end of string
	8171 C9 2E CMP #&2E	<input type="checkbox"/>		C="."
	8173 D0 10 BNE .read_(a)fsp_not"."2	<input type="checkbox"/>		
	8175 A5 C7 LDA FilenameParam	<input type="checkbox"/>		
.read_(a)fsp_cont3	8177 85 CE STA DirectoryParam	<input type="checkbox"/>		
	8179 4C 1B 81 JMP .read_(a)fsp_next	<input type="checkbox"/>		
.read_(a)fsp_nextchr	817C 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	817F B0 1F BCS .read_(a)fsp_exit	<input type="checkbox"/>		
	8181 E0 07 CPX #&07	<input type="checkbox"/>		
	8183 F0 09 BEQ .errBADFILENAME	<input type="checkbox"/>		
.read_(a)fsp_not"."2	8185 C9 2A CMP #&2A	<input type="checkbox"/>		C="**"
	8187 D0 12 BNE .read_(a)fsp_not*3	<input type="checkbox"/>		
	8189 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	818C B0 D4 BCS .read_(a)fsp_endofstr	<input type="checkbox"/>		end of string
.errBADFILENAME	818E 20 22 80 JSR .errBAD	<input type="checkbox"/>		"Bad Filename" error
	8191 CC 66 69 6C 65 6E 61 6D ifilenam	<input type="checkbox"/>		
	8199 65 00 e.	<input type="checkbox"/>		
.read_(a)fsp_not*3	819B 95 C7 STA FilenameParam,X	<input type="checkbox"/>		
	819D E8 INX	<input type="checkbox"/>		
	819E D0 DC BNE .read_(a)fsp_nextchr	<input type="checkbox"/>		
.read_(a)fsp_exit	81A0 60 RTS	<input type="checkbox"/>		
checkforDiskChange	81A1 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	81A4 AD 04 0F LDA &0F04	<input type="checkbox"/>		Cycle No
	81A7 20 47 83 JSR LoadCurDrvCat (preserve AXY)	<input type="checkbox"/>		
	81AA CD 04 0F CMP &0F04	<input type="checkbox"/>		
	81AD F0 F1 BEQ .read_(a)fsp_exit	<input type="checkbox"/>		
.errDISKCHANGED	81AF 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	81B2 C8 44 69 73 6B 20 63 68 EDisk ch	<input type="checkbox"/>		
	81BA 61 6E 67 65 64 00 anged.	<input type="checkbox"/>		
prt_filename(Y=offset)	81C0 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	81C3 B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	81C6 08 PHP	<input type="checkbox"/>		
	81C7 29 7F AND #&7F	<input type="checkbox"/>		directory
	81C9 D0 05 BNE .prt_filename_prtchr	<input type="checkbox"/>		
	81CB 20 CB 9F JSR print2spc/add100-2spc	<input type="checkbox"/>		if no dir. print " "
	81CE F0 06 BEQ .prt_filename_nodir	<input type="checkbox"/>		always?
.prt_filename_prtchr	81D0 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		print dir
	81D3 20 9A 80 JSR prtfullstop	<input type="checkbox"/>		print "."
.prt_filename_nodir	81D6 A2 06 LDX #&06	<input type="checkbox"/>		print filename
.prt_filename_loop	81D8 B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	81DB 29 7F AND #&7F	<input type="checkbox"/>		
	81DD 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	81E0 C8 INY	<input type="checkbox"/>		
	81E1 CA DEX	<input type="checkbox"/>		
	81E2 10 F4 BPL .prt_filename_loop	<input type="checkbox"/>		
	81E4 20 CB 9F JSR print2spc/add100-2spc	<input type="checkbox"/>		print " "
	81E7 A9 20 LDA #&20	<input type="checkbox"/>		" "
	81E9 28 PLP	<input type="checkbox"/>		
	81EA 10 02 BPL .prt_filename_notlocked	<input type="checkbox"/>		N=Locked!
	81EC A9 4C LDA #&4C	<input type="checkbox"/>		"L"
.prt_filename_notlocked	81EE 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		print "L" or " "
	81F1 4C CE 9F JMP prtspc/add100-spc	<input type="checkbox"/>		print " "
prt_Yspaces	81F4 20 CE 9F JSR prtspc/add100-spc	<input type="checkbox"/>		
	81F7 88 DEY	<input type="checkbox"/>		
	81F8 D0 FA BNE prt_Yspaces	<input type="checkbox"/>		
	81FA 60 RTS	<input type="checkbox"/>		
.A>>6 and 3	81FB 4A LSR	<input type="checkbox"/>		
.A>>5 and 3	81FC 4A LSR	<input type="checkbox"/>		
.A>>4 and 3	81FD 4A LSR	<input type="checkbox"/>		
.A>>3 and 3	81FE 4A LSR	<input type="checkbox"/>		
.A>>2 and 3	81FF 4A LSR	<input type="checkbox"/>		
.A>>1 and 3	8200 4A LSR	<input type="checkbox"/>		
	8201 29 03 AND #&03	<input type="checkbox"/>		
	8203 60 RTS	<input type="checkbox"/>		
.A>>5	8204 4A LSR	<input type="checkbox"/>		
.A>>4	8205 4A LSR	<input type="checkbox"/>		
.A>>3	8206 4A LSR	<input type="checkbox"/>		
.A>>2	8207 4A LSR	<input type="checkbox"/>		
	8208 4A LSR	<input type="checkbox"/>		
	8209 60 RTS	<input type="checkbox"/>		
.A<<5	820A 0A ASL	<input type="checkbox"/>		

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Label	Code		Zero	New Instruction	Comment
.A<<4	820B 0A	ASL	<input type="checkbox"/>		
.A<<3	820C 0A	ASL	<input type="checkbox"/>		
.A<<2	820D 0A	ASL	<input type="checkbox"/>		
	820E 0A	ASL	<input type="checkbox"/>		
	820F 60	RTS	<input type="checkbox"/>		
.Y=Y+8	8210 C8	INY	<input type="checkbox"/>		
.Y=Y+7	8211 C8	INY	<input type="checkbox"/>		
.Y=Y+6	8212 C8	INY	<input type="checkbox"/>		
.Y=Y+5	8213 C8	INY	<input type="checkbox"/>		
.Y=Y+4	8214 C8	INY	<input type="checkbox"/>		
.Y=Y+2	8215 C8	INY	<input type="checkbox"/>		
	8216 C8	INY	<input type="checkbox"/>		
	8217 C8	INY	<input type="checkbox"/>		
	8218 60	RTS	<input type="checkbox"/>		
.Y=Y-8	8219 88	DEY	<input type="checkbox"/>		
.Y=Y-7	821A 88	DEY	<input type="checkbox"/>		
.Y=Y-6	821B 88	DEY	<input type="checkbox"/>		
.Y=Y-5	821C 88	DEY	<input type="checkbox"/>		
.Y=Y-4	821D 88	DEY	<input type="checkbox"/>		
.Y=Y-3	821E 88	DEY	<input type="checkbox"/>		
.Y=Y-2	821F 88	DEY	<input type="checkbox"/>		
	8220 88	DEY	<input type="checkbox"/>		
	8221 60	RTS	<input type="checkbox"/>		
BLOCK Y InitNMIVars	8222 A5 BE	LDA &BE	<input checked="" type="checkbox"/>		Load Address
	8224 85 A6	STA NMI_DataPointer	<input checked="" type="checkbox"/>		
	8226 A5 BF	LDA &BF	<input checked="" type="checkbox"/>		
	8228 85 A7	STA NMI_DataPointer+1	<input checked="" type="checkbox"/>		
	822A A9 FF	LDA #&FF	<input checked="" type="checkbox"/>		Calc.counter/trk/sec
	822C 85 BA	STA Track	<input checked="" type="checkbox"/>		
	822E A6 C3	LDX &C3	<input checked="" type="checkbox"/>		Len b8-b15
	8230 E8	INX	<input checked="" type="checkbox"/>		
	8231 86 A4	STX NMI_Counter2	<input checked="" type="checkbox"/>		
	8233 A5 C4	LDA &C4	<input checked="" type="checkbox"/>		"mixed byte"
	8235 20 FD 81	JSR .A>>4 and 3	<input checked="" type="checkbox"/>		
	8238 85 A5	STA NMI_Counter3	<input checked="" type="checkbox"/>		Len b16-17
	823A E6 A5	INC NMI_Counter3	<input checked="" type="checkbox"/>		
	823C A5 C2	LDA &C2	<input checked="" type="checkbox"/>		Len b0-b7
	823E 85 A3	STA NMI_Counter1	<input checked="" type="checkbox"/>		' bytes last sector 0=&100
	8240 D0 06	BNE .calsctrksec	<input checked="" type="checkbox"/>		
	8242 C6 A4	DEC NMI_Counter2	<input checked="" type="checkbox"/>		' Sectors
	8244 D0 02	BNE .calsctrksec	<input checked="" type="checkbox"/>		
	8246 C6 A5	DEC NMI_Counter3	<input checked="" type="checkbox"/>		' 1=Host
.calsctrksec	8248 A5 C4	LDA &C4	<input checked="" type="checkbox"/>		Strt Sec b8-b9
	824A 29 03	AND #&03	<input checked="" type="checkbox"/>		
	824C AA	TAX	<input checked="" type="checkbox"/>		X=b8-b9
	824D A5 C5	LDA &C5	<input checked="" type="checkbox"/>		Strt Sec b0-b7
.calctrksec_loop2	824F 38	SEC	<input checked="" type="checkbox"/>		Calc first trk/sec
.calctrksec_loop	8250 E6 BA	INC Track	<input checked="" type="checkbox"/>		first loop trk=FF+1=0
	8252 E9 0A	SBC #&0A	<input checked="" type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8254 B0 FA BCS .calctrksec_loop	<input checked="" type="checkbox"/>		sec>=10
	8256 CA DEX	<input checked="" type="checkbox"/>		
	8257 10 F6 BPL .calctrksec_loop2	<input checked="" type="checkbox"/>		
	8259 69 0A ADC #&0A	<input checked="" type="checkbox"/>		
	825B 85 BB STA Sector	<input checked="" type="checkbox"/>		
.get_cat_exit_entryfound	825D 60 RTS	<input type="checkbox"/>		
parameter_afsp	825E A9 23 LDA #&23	<input type="checkbox"/>		
	8260 D0 02 BNE &8264	<input type="checkbox"/>		
parameter_fsp	8262 A9 FF LDA #&FF	<input type="checkbox"/>		
	8264 8D CF 10 STA &10CF	<input type="checkbox"/>		
	8267 60 RTS	<input type="checkbox"/>		
cmd_info_afsp_cmdl	8268 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	826B 4C 71 82 JMP getcatentry_(r.:C=1=found,Y=offset)	<input type="checkbox"/>		
getcatentry_(a)fsp_@(&BC)_(r.:C=1=fou nd,Y=offset)	826E 20 06 81 JSR read_(a)fsp_@(&BC) (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
getcatentry_(r.:C=1=found,Y=offset)	8271 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	8274 B0 E7 BCS .get_cat_exit_entryfound	<input type="checkbox"/>		
err_FILENOTFOUND	8276 20 2B 80 JSR .errFILE	<input type="checkbox"/>		
	8279 D6 6E 6F 74 20 66 6F 75 0not fou	<input type="checkbox"/>		
	8281 6E 64 00 nd.	<input type="checkbox"/>		
CMD_INFO	8284 20 5E 82 JSR parameter_afsp	<input type="checkbox"/>		
	8287 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	828A 20 68 82 JSR cmd_info_afsp_cmdl	<input type="checkbox"/>		
.cmd_info_loop	828D 20 01 83 JSR prt_InfoLine(Y=file offset)	<input type="checkbox"/>		
	8290 20 9D 82 JSR get_cat_nextentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	8293 B0 F8 BCS .cmd_info_loop	<input type="checkbox"/>		
	8295 60 RTS	<input type="checkbox"/>		
get_cat_firstentry(return:C=1=found,Y =offset)	8296 20 DE 8A JSR CheckCurDrvCatalog	<input type="checkbox"/>	JSR mmloadcurdrvcat	filtered catalogue
	8299 A0 F8 LDY #&F8	<input type="checkbox"/>		
	829B D0 03 BNE .get_cat_nextentry2	<input type="checkbox"/>		always
get_cat_nextentry(return:C=1=found,Y= offset)	829D AC CE 10 LDY &10CE	<input type="checkbox"/>		load counter
.get_cat_nextentry2	82A0 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	82A3 CC 05 0F CPY FilesX8	<input type="checkbox"/>		Files on disk * 8
	82A6 B0 44 BCS .get_cat_exit_noentryfound	<input type="checkbox"/>		Y>=?&F05
	82A8 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	82AB A2 07 LDX #&07	<input type="checkbox"/>		compare with (a)fsp
.get_cat_loop	82AD B5 C7 LDA FilenameParam,X	<input type="checkbox"/>		get (a)fsp chr
	82AF CD CF 10 CMP &10CF	<input type="checkbox"/>		param.type
	82B2 F0 0E BEQ .get_cat_nextchr	<input type="checkbox"/>		ignore chr get next
	82B4 20 EE 82 JSR alphachr_ifC=0 (A=Chr) A preserved	<input type="checkbox"/>		
	82B7 59 07 0E EOR &0E07,Y	<input type="checkbox"/>		
	82BA B0 02 BCS .get_cat_notalpha	<input type="checkbox"/>		not alphachr
	82BC 29 DF AND #&DF	<input type="checkbox"/>		ignore case
.get_cat_notalpha	82BE 29 7F AND #&7F	<input type="checkbox"/>		clear bit 7
	82C0 D0 09 BNE .get_cat_nomatch_loop	<input type="checkbox"/>		no match
.get_cat_nextchr	82C2 88 DEY	<input type="checkbox"/>		
	82C3 CA DEX	<input type="checkbox"/>		
	82C4 10 E7 BPL .get_cat_loop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	82C6 8C CE 10 STY &10CE	<input type="checkbox"/>		save counter
	82C9 38 SEC	<input type="checkbox"/>		
	82CA 60 RTS	<input type="checkbox"/>		C=1 entry found
.get_cat_nomatch_loop	82CB 88 DEY	<input type="checkbox"/>		
	82CC CA DEX	<input type="checkbox"/>		
	82CD 10 FC BPL .get_cat_nomatch_loop	<input type="checkbox"/>		
	82CF 30 CF BMI .get_cat_nextentry2	<input type="checkbox"/>		don't return, try next file
DeleteCatEntry Y=FileOffset	82D1 20 4C 98 JSR CheckFileNotOpen	<input type="checkbox"/>		
	82D4 B9 10 0E LDA &0E10,Y	<input type="checkbox"/>		
	82D7 99 08 0E STA &0E08,Y	<input type="checkbox"/>		
	82DA B9 10 0F LDA &0F10,Y	<input type="checkbox"/>		
	82DD 99 08 0F STA &0F08,Y	<input type="checkbox"/>		
	82E0 C8 INY	<input type="checkbox"/>		
	82E1 CC 05 0F CPY FilesX8	<input type="checkbox"/>		
	82E4 90 EE BCC &82D4	<input type="checkbox"/>		
	82E6 98 TYA	<input type="checkbox"/>		
	82E7 E9 08 SBC #&08	<input type="checkbox"/>		
	82E9 8D 05 0F STA FilesX8	<input type="checkbox"/>		
.get_cat_exit_noentryfound	82EC 18 CLC	<input type="checkbox"/>		
.print_infoline_exit	82ED 60 RTS	<input type="checkbox"/>		C=0 = no error
alphachr_ifC=0 (A=Chr) A preserved	82EE 48 PHA	<input type="checkbox"/>		is A >="A" and <="Z"
	82EF 29 DF AND #&DF	<input type="checkbox"/>		ignore case bit
	82F1 C9 41 CMP #&41	<input type="checkbox"/>		<"A"?
	82F3 90 04 BCC .alphachr_<"A"	<input type="checkbox"/>		
	82F5 C9 5B CMP #&5B	<input type="checkbox"/>		<"["?
	82F7 90 01 BCC .aplhachr_<"["	<input type="checkbox"/>		
.alphachr_<"A"	82F9 38 SEC	<input type="checkbox"/>		
.aplhachr_<"["	82FA 68 PLA	<input type="checkbox"/>		C clear if true
	82FB 60 RTS	<input type="checkbox"/>		end
prt_InfoLineif?10c7>=&80,Y=o/set	82FC 2C C7 10 BIT &10C7	<input type="checkbox"/>		
	82FF 30 EC BMI .print_infoline_exit	<input type="checkbox"/>		
prt_InfoLine(Y=file offset)	8301 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	8304 20 C0 81 JSR prt_filename(Y=offset)	<input type="checkbox"/>		
	8307 98 TYA	<input type="checkbox"/>		
	8308 48 PHA	<input type="checkbox"/>		
	8309 A9 60 LDA #&60	<input type="checkbox"/>		word &B0=1060
	830B 85 B0 STA PrivateWorkspacePointer	<input type="checkbox"/>		
	830D A9 10 LDA #&10	<input type="checkbox"/>		
	830F 85 B1 STA PrivateWorkspacePointer+1	<input type="checkbox"/>		
	8311 20 7E 83 JSR readfileattribs Y=offset of file	<input type="checkbox"/>		create no. str
	8314 A0 02 LDY #&02	<input type="checkbox"/>		
	8316 20 CE 9F JSR prtspc/add100-spc	<input type="checkbox"/>		print " "
	8319 20 35 83 JSR printhex3byte (ret.Y=Y+3)	<input type="checkbox"/>		Load address
	831C 20 35 83 JSR printhex3byte (ret.Y=Y+3)	<input type="checkbox"/>		Exec address
	831F 20 35 83 JSR printhex3byte (ret.Y=Y+3)	<input type="checkbox"/>		Length
	8322 68 PLA	<input type="checkbox"/>		
	8323 A8 TAY	<input type="checkbox"/>		
	8324 B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		First sector high bits
	8327 29 03 AND #&03	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8329 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	832C B9 0F 0F LDA &0F0F,Y	<input type="checkbox"/>		First sector low byte
	832F 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	8332 4C 9A 9F JMP prtNewLine (A preserved)	<input type="checkbox"/>		end
printhex3byte (ret.Y=Y+3)	8335 A2 03 LDX #&03	<input type="checkbox"/>		eg print "123456 "
printhex3byte_loop	8337 B9 62 10 LDA &1062,Y	<input type="checkbox"/>		??10ok
	833A 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	833D 88 DEY	<input type="checkbox"/>		
	833E CA DEX	<input type="checkbox"/>		
	833F D0 F6 BNE printhex3byte_loop	<input type="checkbox"/>		
	8341 20 11 82 JSR .Y=Y+7	<input type="checkbox"/>		
	8344 4C CE 9F JMP prtspc/add100-spc	<input type="checkbox"/>		
LoadCurDrvCat (preserve AXY)	8347 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	834A 4C EB 8A JMP LoadCurDrvCatalog	<input type="checkbox"/>	JMP mmcloadcurdrvcat	
setCECF_driveno	834D AD CA 10 LDA &10CA	<input type="checkbox"/>		
	8350 85 CE STA DirectoryParam	<input type="checkbox"/>		
SetDrvNo=?&10CB	8352 AD CB 10 LDA &10CB	<input type="checkbox"/>		set drive no
	8355 4C 7E 87 JMP SetCurrentDrive	<input type="checkbox"/>		
GetDriveNo_withInit	8358 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	835B F0 F5 BEQ SetDrvNo=?&10CB	<input type="checkbox"/>		null string
GetDriveNo (A=DrvNo,C=0,XY preserved)	835D 20 C5 FF JSR GSREAD	<input type="checkbox"/>		rd chr (C)
	8360 B0 12 BCS errBADDRIE	<input type="checkbox"/>		end of str
	8362 C9 3A CMP #&3A	<input type="checkbox"/>		C=":"
	8364 F0 F7 BEQ GetDriveNo (A=DrvNo,C=0,XY preserved)	<input type="checkbox"/>		ignore get next chr
	8366 38 SEC	<input type="checkbox"/>		
	8367 E9 30 SBC #&30	<input type="checkbox"/>		N=C-"0"
	8369 90 09 BCC errBADDRIE	<input type="checkbox"/>		C<"0"
	836B C9 04 CMP #&04	<input type="checkbox"/>		
	836D B0 05 BCS errBADDRIE	<input type="checkbox"/>		C>="4"
	836F 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		on entry A=drive no (0-3)
	8372 18 CLC	<input type="checkbox"/>		
	8373 60 RTS	<input type="checkbox"/>		
errBADDRIE	8374 20 22 80 JSR .errBAD	<input type="checkbox"/>		Bad Drive (err#CD)
	8377 CD 64 72 69 76 65 00 fdrive.	<input type="checkbox"/>		
readfileattribs Y=offset of file	837E 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		decode file attribs
	8381 98 TYA	<input type="checkbox"/>		and store in pwsip
	8382 48 PHA	<input type="checkbox"/>		bytes 2-11
	8383 AA TAX	<input type="checkbox"/>		
	8384 A0 02 LDY #&02	<input type="checkbox"/>		
	8386 A9 00 LDA #&00	<input type="checkbox"/>		set to 0
.readfileattribs_clearloop	8388 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	838A C8 INY	<input type="checkbox"/>		
	838B C0 12 CPY #&12	<input type="checkbox"/>		
	838D D0 F9 BNE .readfileattribs_clearloop	<input type="checkbox"/>		
	838F A0 02 LDY #&02	<input type="checkbox"/>		copy low bytes of
.readfileattribs_copyloop	8391 20 CF 83 JSR .readfileattribs_copy2bytes	<input type="checkbox"/>		load/exec/length
	8394 C8 INY	<input type="checkbox"/>		
	8395 C8 INY	<input type="checkbox"/>		
	8396 C0 0E CPY #&0E	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8398 D0 F7 BNE .readfileattribs_copyloop	<input type="checkbox"/>		
	839A 68 PLA	<input type="checkbox"/>		
	839B AA TAX	<input type="checkbox"/>		
	839C BD 0F 0E LDA &0E0F,X	<input type="checkbox"/>		locked?
	839F 10 06 BPL .readfileattribs_notlocked	<input type="checkbox"/>		
	83A1 A9 0A LDA #&0A	<input type="checkbox"/>		
	83A3 A0 0E LDY #&0E	<input type="checkbox"/>		
	83A5 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		pws+&E=&A
.readfileattribs_notlocked	83A7 BD 0E 0F LDA &0F0E,X	<input type="checkbox"/>		mixed byte
	83AA A0 04 LDY #&04	<input type="checkbox"/>		load high bytes?
	83AC 20 BB 83 JSR .readfileattribs_addrHiBytes	<input type="checkbox"/>		
	83AF A0 0C LDY #&0C	<input type="checkbox"/>		length high bytes
	83B1 4A LSR	<input type="checkbox"/>		
	83B2 4A LSR	<input type="checkbox"/>		
	83B3 48 PHA	<input type="checkbox"/>		
	83B4 29 03 AND #&03	<input type="checkbox"/>		
	83B6 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	83B8 68 PLA	<input type="checkbox"/>		
	83B9 A0 08 LDY #&08	<input type="checkbox"/>		exec high bytes
.readfileattribs_addrHiBytes	83BB 4A LSR	<input type="checkbox"/>		
	83BC 4A LSR	<input type="checkbox"/>		/4
	83BD 48 PHA	<input type="checkbox"/>		
	83BE 29 03 AND #&03	<input type="checkbox"/>		
	83C0 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	83C2 C9 03 CMP #&03	<input type="checkbox"/>		
	83C4 D0 07 BNE .readfileattribs_exits	<input type="checkbox"/>		
	83C6 A9 FF LDA #&FF	<input type="checkbox"/>		
	83C8 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	83CA C8 INY	<input type="checkbox"/>		
	83CB 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
.readfileattribs_exits	83CD 68 PLA	<input type="checkbox"/>		
	83CE 60 RTS	<input type="checkbox"/>		
.readfileattribs_copy2bytes	83CF 20 D2 83 JSR .readfileattribs_copylbyte	<input type="checkbox"/>		
.readfileattribs_copylbyte	83D2 BD 08 0F LDA &0F08,X	<input type="checkbox"/>		
	83D5 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	83D7 E8 INX	<input type="checkbox"/>		
	83D8 C8 INY	<input type="checkbox"/>		
	83D9 60 RTS	<input type="checkbox"/>		
inc_word_AE	83DA E6 AE INC &AE	<input type="checkbox"/>		
	83DC D0 02 BNE &83E0	<input type="checkbox"/>		
	83DE E6 AF INC &AF	<input type="checkbox"/>		
	83E0 60 RTS	<input type="checkbox"/>		
rememberAXY	83E1 48 PHA	<input type="checkbox"/>		manipulates stack
	83E2 8A TXA	<input type="checkbox"/>		pushes address 8403
	83E3 48 PHA	<input type="checkbox"/>		(returns to 8404!)
	83E4 98 TYA	<input type="checkbox"/>		
	83E5 48 PHA	<input type="checkbox"/>		
	83E6 A9 84 LDA #&84	<input type="checkbox"/>		
	83E8 48 PHA	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	83E9 A9 03 LDA #&03	<input type="checkbox"/>		
	83EB 48 PHA	<input type="checkbox"/>		
.rAXY_loop_init	83EC A0 05 LDY #&05	<input type="checkbox"/>		for y=5 to 1
.rAXY_loop	83EE BA TSX	<input type="checkbox"/>		
	83EF BD 07 01 LDA &0107,X	<input type="checkbox"/>		
	83F2 48 PHA	<input type="checkbox"/>		
	83F3 88 DEY	<input type="checkbox"/>		
	83F4 D0 F8 BNE .rAXY_loop	<input type="checkbox"/>		next
	83F6 A0 0A LDY #&0A	<input type="checkbox"/>		for y=A to 1
.rAXY_loop2	83F8 BD 09 01 LDA &0109,X	<input type="checkbox"/>		
	83FB 9D 0B 01 STA &010B,X	<input type="checkbox"/>		
	83FE CA DEX	<input type="checkbox"/>		
	83FF 88 DEY	<input type="checkbox"/>		
	8400 D0 F6 BNE .rAXY_loop2	<input type="checkbox"/>		next
	8402 68 PLA	<input type="checkbox"/>		discard (Y)
	8403 68 PLA	<input type="checkbox"/>		discard (X)
.rAXY_restore	8404 68 PLA	<input type="checkbox"/>		
	8405 A8 TAY	<input type="checkbox"/>		
	8406 68 PLA	<input type="checkbox"/>		
	8407 AA TAX	<input type="checkbox"/>		
	8408 68 PLA	<input type="checkbox"/>		
	8409 60 RTS	<input type="checkbox"/>		end
	840A BA TSX	<input type="checkbox"/>		
	840B 9D 03 01 STA &0103,X	<input type="checkbox"/>		
	840E 4C 04 84 JMP .rAXY_restore	<input type="checkbox"/>		
rAXY2_dontpullonreturn	8411 48 PHA	<input type="checkbox"/>		
	8412 8A TXA	<input type="checkbox"/>		
	8413 48 PHA	<input type="checkbox"/>		
	8414 98 TYA	<input type="checkbox"/>		
	8415 48 PHA	<input type="checkbox"/>		
	8416 A9 84 LDA #&84	<input type="checkbox"/>		
	8418 48 PHA	<input type="checkbox"/>		
	8419 A9 09 LDA #&09	<input type="checkbox"/>		
	841B 48 PHA	<input type="checkbox"/>		
	841C D0 CE BNE .rAXY_loop_init	<input type="checkbox"/>		always
.fscv5_*CAT	841E 20 B8 86 JSR SetTextPointer=Y*100+X	<input type="checkbox"/>		
	8421 20 D8 8A JSR CheckCurDrvCatalog2	<input type="checkbox"/>	JSR mmcloadcurdrvcat2	
prt_catalogue2	8424 A0 FF LDY #&FF	<input type="checkbox"/>		
	8426 84 A8 STY &A8	<input type="checkbox"/>		
	8428 C8 INY	<input type="checkbox"/>		
	8429 84 AA STY &AA	<input type="checkbox"/>		
.cat_titleloop	842B B9 00 0E LDA &0E00,Y	<input type="checkbox"/>		print disk title
	842E C0 08 CPY #&08	<input type="checkbox"/>		
	8430 90 03 BCC &8435	<input type="checkbox"/>		
	8432 B9 F8 0E LDA &0EF8,Y	<input type="checkbox"/>		
	8435 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	8438 C8 INY	<input type="checkbox"/>		
	8439 C0 0C CPY #&0C	<input type="checkbox"/>		
	843B D0 EE BNE .cat_titleloop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	843D 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	8440 20 28 (<input type="checkbox"/>		print " ("
	8442 AD 04 0F LDA &0F04	<input type="checkbox"/>		print no.?
	8445 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	8448 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print ")" "Drive"
	844B 29 0D 44 72 69 76 65 20).Drive	<input type="checkbox"/>		
	8453 A5 CF LDA CurrentDrv	<input type="checkbox"/>		
	8455 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		print drv.no.
	8458 A0 0D LDY #&0D	<input type="checkbox"/>		
	845A 20 F4 81 JSR prt_Yspaces	<input type="checkbox"/>		print 13 spaces
	845D 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	8460 4F 70 74 69 6F 6E 20 Option	<input type="checkbox"/>		print "Option"
	8467 AD 06 0F LDA &0F06	<input type="checkbox"/>		
	846A 20 05 82 JSR .A>>4	<input type="checkbox"/>		
	846D 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		print option.no
	8470 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print " ("
	8473 20 28 (<input type="checkbox"/>		
	8475 A0 03 LDY #&03	<input type="checkbox"/>		print option.name
	8477 0A ASL	<input type="checkbox"/>		
	8478 0A ASL	<input type="checkbox"/>		
	8479 AA TAX	<input type="checkbox"/>		
.cat_printoptionnameloop	847A BD 6F 85 LDA .diskoptions_table,X	<input type="checkbox"/>		
	847D 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	8480 E8 INX	<input type="checkbox"/>		
	8481 88 DEY	<input type="checkbox"/>		
	8482 10 F6 BPL .cat_printoptionnameloop	<input type="checkbox"/>		
	8484 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print ") Directory :"
	8487 29 0D 44 69 72 65 63 74).Direct	<input type="checkbox"/>		
	848F 6F 72 79 20 3A ory :	<input type="checkbox"/>		
	8494 AD CB 10 LDA &10CB	<input type="checkbox"/>		
	8497 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		print driveno
	849A 20 9A 80 JSR prtfullstop	<input type="checkbox"/>		print "."
	849D AD CA 10 LDA &10CA	<input type="checkbox"/>		print dir
	84A0 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	84A3 A0 06 LDY #&06	<input type="checkbox"/>		
	84A5 20 F4 81 JSR prt_Yspaces	<input type="checkbox"/>		print 6 spaces
	84A8 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print "Library "
	84AB 4C 69 62 72 61 72 79 20 Library	<input type="checkbox"/>		
	84B3 3A :	<input type="checkbox"/>		
	84B4 AD CD 10 LDA &10CD	<input type="checkbox"/>		
	84B7 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		print library.drv
	84BA 20 9A 80 JSR prtfullstop	<input type="checkbox"/>		print "."
	84BD AD CC 10 LDA &10CC	<input type="checkbox"/>		
	84C0 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		print library.dir
	84C3 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		print
	84C6 A0 00 LDY #&00	<input type="checkbox"/>		
.pcl3	84C8 CC 05 0F CPY FilesX8	<input type="checkbox"/>		no.of.files?
	84CB B0 17 BCS .pcl2	<input type="checkbox"/>		Y>=no.of.files
	84CD B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	84D0 4D CA 10 EOR &10CA	<input type="checkbox"/>		
	84D3 29 7F AND #&7F	<input type="checkbox"/>		
	84D5 D0 08 BNE .pcl5	<input type="checkbox"/>		not current dir
	84D7 B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	84DA 29 80 AND #&80	<input type="checkbox"/>		
	84DC 99 0F 0E STA &0E0F,Y	<input type="checkbox"/>		
.pcl5	84DF 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	84E2 90 E4 BCC .pcl3	<input type="checkbox"/>		
.pcl2	84E4 A0 00 LDY #&00	<input type="checkbox"/>		
	84E6 20 F6 84 JSR .pcl6	<input type="checkbox"/>		
	84E9 90 16 BCC .pcl4	<input type="checkbox"/>		
	84EB A9 FF LDA #&FF	<input type="checkbox"/>		finished
	84ED 8D 82 10 STA CurrentCrvCatalog	<input type="checkbox"/>		
	84F0 4C 9A 9F JMP prtNewLine (A preserved)	<input type="checkbox"/>		
.pcl1	84F3 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		ignore deleted files?
.pcl6	84F6 CC 05 0F CPY FilesX8	<input type="checkbox"/>		
	84F9 B0 05 BCS .exitprtc	<input type="checkbox"/>		
	84FB B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	84FE 30 F3 BMI .pcl1	<input type="checkbox"/>		
.exitprtc	8500 60 RTS	<input type="checkbox"/>		
.pcl4	8501 84 AB STY &AB	<input type="checkbox"/>		
	8503 A2 00 LDX #&00	<input type="checkbox"/>		
	8505 B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	8508 29 7F AND #&7F	<input type="checkbox"/>		
	850A 9D 60 10 STA &1060,X	<input type="checkbox"/>		??10ok
	850D C8 INY	<input type="checkbox"/>		
	850E E8 INX	<input type="checkbox"/>		
	850F E0 08 CPX #&08	<input type="checkbox"/>		
	8511 D0 F2 BNE &8505	<input type="checkbox"/>		
	8513 20 F6 84 JSR .pcl6	<input type="checkbox"/>		
	8516 B0 1F BCS &8537	<input type="checkbox"/>		
	8518 38 SEC	<input type="checkbox"/>		
	8519 A2 06 LDX #&06	<input type="checkbox"/>		
	851B B9 0E 0E LDA &0E0E,Y	<input type="checkbox"/>		
	851E FD 60 10 SBC &1060,X	<input type="checkbox"/>		??10ok
	8521 88 DEY	<input type="checkbox"/>		
	8522 CA DEX	<input type="checkbox"/>		
	8523 10 F6 BPL &851B	<input type="checkbox"/>		
	8525 20 11 82 JSR .Y=Y+7	<input type="checkbox"/>		
	8528 B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	852B 29 7F AND #&7F	<input type="checkbox"/>		
	852D ED 67 10 SBC &1067	<input type="checkbox"/>		
	8530 90 CF BCC .pcl4	<input type="checkbox"/>		
	8532 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	8535 B0 DC BCS &8513	<input type="checkbox"/>		
	8537 A4 AB LDY &AB	<input type="checkbox"/>		
	8539 B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	853C 09 80 ORA #&80	<input type="checkbox"/>		
	853E 99 08 0E STA &0E08,Y	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8541 AD 67 10 LDA &1067	<input type="checkbox"/>		
	8544 C5 AA CMP &AA	<input type="checkbox"/>		
	8546 F0 10 BEQ &8558	<input type="checkbox"/>		
	8548 A6 AA LDX &AA	<input type="checkbox"/>		
	854A 85 AA STA &AA	<input type="checkbox"/>		
	854C D0 0A BNE &8558	<input type="checkbox"/>		
	854E 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	8551 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	8554 A0 FF LDY #&FF	<input type="checkbox"/>		
	8556 D0 09 BNE &8561	<input type="checkbox"/>		
	8558 A4 A8 LDY &A8	<input type="checkbox"/>		
	855A D0 F5 BNE &8551	<input type="checkbox"/>		
	855C A0 05 LDY #&05	<input type="checkbox"/>		
	855E 20 F4 81 JSR prt_Yspaces	<input type="checkbox"/>		
	8561 C8 INY	<input type="checkbox"/>		
	8562 84 A8 STY &A8	<input type="checkbox"/>		
	8564 A4 AB LDY &AB	<input type="checkbox"/>		
	8566 20 CB 9F JSR print2spc/addl00-2spc	<input type="checkbox"/>		
	8569 20 C0 81 JSR prt_filename(Y=offset)	<input type="checkbox"/>		
	856C 4C E4 84 JMP .pcl2	<input type="checkbox"/>		
.diskoptions_table	856F 6F 66 66 00 4C 4F 41 44 off.LOAD	<input type="checkbox"/>		
	8577 52 55 4E 00 45 58 45 43 RUN.EXEC	<input type="checkbox"/>		
.getnextblock	857F B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		
	8582 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	8585 85 C4 STA &C4	<input type="checkbox"/>		len byte 3
	8587 18 CLC	<input type="checkbox"/>		
	8588 A9 FF LDA #&FF	<input type="checkbox"/>		-1
	858A 79 0C 0F ADC &0F0C,Y	<input type="checkbox"/>		+ len byte 1
	858D B9 0F 0F LDA &0F0F,Y	<input type="checkbox"/>		+ start sec byte 1
	8590 79 0D 0F ADC &0F0D,Y	<input type="checkbox"/>		+ len byte 2
	8593 85 C5 STA &C5	<input type="checkbox"/>		
	8595 B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		start sec byte 2
	8598 29 03 AND #&03	<input type="checkbox"/>		
	859A 65 C4 ADC &C4	<input type="checkbox"/>		calc. next "free" sector
	859C 85 C4 STA &C4	<input type="checkbox"/>		c4/c5=start sec + len - 1
.getfirstblock	859E 38 SEC	<input type="checkbox"/>		
	859F B9 07 0F LDA &0F07,Y	<input type="checkbox"/>		secs on disk
	85A2 E5 C5 SBC &C5	<input type="checkbox"/>		or start sec of prev.
	85A4 48 PHA	<input type="checkbox"/>		file
	85A5 B9 06 0F LDA &0F06,Y	<input type="checkbox"/>		- end of prev. file
	85A8 29 03 AND #&03	<input type="checkbox"/>		
	85AA E5 C4 SBC &C4	<input type="checkbox"/>		
	85AC AA TAX	<input type="checkbox"/>		
	85AD A9 00 LDA #&00	<input type="checkbox"/>		
	85AF C5 C2 CMP &C2	<input type="checkbox"/>		
	85B1 68 PLA	<input type="checkbox"/>		ax=secs on disk-next blk
	85B2 E5 C3 SBC &C3	<input type="checkbox"/>		
	85B4 8A TXA	<input type="checkbox"/>		req'd=c2/c3/c6
	85B5 E5 C6 SBC &C6	<input type="checkbox"/>		big enough?

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Label	Code	Zero	New Instruction	Comment
.gbpbv0_donothing	85B7 60 RTS	<input type="checkbox"/>		
.cmdlist	85B8 41 A	<input type="checkbox"/>		table 1 commands
.cmdlist+1	85B9 43 43 45 53 53 88 D1 32 CCESS`Ñ2	<input type="checkbox"/>		1
.cmdlist+9	85C1 42 41 43 4B 55 50 9C BA BACKUPæ°	<input type="checkbox"/>		9
	85C9 54 T	<input type="checkbox"/>		11
.cmdlist+12	85CA 43 4F 4D 50 41 43 54 9A COMPACTŠ	<input type="checkbox"/>		12
	85D2 BF 0A ğ.	<input type="checkbox"/>		1A
.cmdlist+1C	85D4 43 4F 50 59 9D 26 64 COPY•&d	<input type="checkbox"/>		1C
.cmdlist+23	85DB 44 45 4C 45 54 45 86 FD DELETE†Ÿ	<input type="checkbox"/>		23
	85E3 01 .	<input type="checkbox"/>		2B
.cmdlist+2C	85E4 44 45 53 54 52 4F 59 87 DESTROY‡	<input type="checkbox"/>		2C
	85EC 0F 02 ..	<input type="checkbox"/>		34
.cmdlist+36	85EE 44 49 52 88 4D 09 DIR`M.	<input type="checkbox"/>		36
.cmdlist+3C	85F4 44 52 49 56 45 87 74 0A DRIVE†t.	<input type="checkbox"/>		3C
.cmdlist+44	85FC 45 4E 41 42 4C 45 8A 38 ENABLEŠ8	<input type="checkbox"/>		44
	8604 00 .	<input type="checkbox"/>		4C
.cmdlist+4D	8605 49 4E 46 4F 82 83 02 INFO,f.	<input type="checkbox"/>		4D
.cmdlist+54	860C 4C 49 42 88 51 09 LIB`Q.	<input type="checkbox"/>		54
.cmdlist+5A	8612 52 45 4E 41 4D 45 8A 6C RENAMEŠl	<input type="checkbox"/>		5A
	861A 87 ‡	<input type="checkbox"/>		62
.cmdlist+63	861B 54 49 54 4C 45 88 A2 0B TITLE`ċ.	<input type="checkbox"/>		63
.cmdlist+6B	8623 57 49 50 45 86 C2 02 WIPE†Â.	<input type="checkbox"/>		6B
.cmdlist+72	862A 87 D6 00 ‡Ö.	<input type="checkbox"/>	TGO mmcdcommand	72
.cmdlist+75	862D 42 55 49 4C 44 9F 47 01 BUILDŸG.	<input type="checkbox"/>		table 2 utils commands/help
.cmdlist+7D	8635 44 49 53 43 DISC	<input type="checkbox"/>		7D
.discvec	8639 93 37 00 "7.	<input type="checkbox"/>		81
.cmdlist+84	863C 44 55 4D 50 9E CF 01 DUMPžĭ.	<input type="checkbox"/>		84
.cmdlist+8B	8643 4C 49 53 54 9E 8D 01 LISTž•.	<input type="checkbox"/>		8B
.cmdlist+92	864A 54 59 50 45 9E 86 01 TYPEž†.	<input type="checkbox"/>		92
.cmdlist+99	8651 44 49 53 4B DISK	<input type="checkbox"/>		99
.diskvec	8655 93 37 00 "7.	<input type="checkbox"/>		9D
.cmdlist+A0	8658 85 B6 00 ...Ÿl.	<input type="checkbox"/>		A0
.cmdlist+A3	865B 44 46 53 99 C5 00 DFS`ŸÂ.	<input type="checkbox"/>		table 3 help
.cmdlist+A9	8661 55 54 49 4C 53 UTILS	<input type="checkbox"/>		A9
.cmdutils_vec	8666 99 ED 00 Ÿĭ.	<input type="checkbox"/>		AE
.cmdlist+B1	8669 99 F4 00 Ÿđ.	<input type="checkbox"/>		B1
.fscv3_unreccommand	866C 20 B8 86 JSR SetTextPointer=Y*100+X	<input type="checkbox"/>		
	866F A2 FD LDX #&FD	<input type="checkbox"/>		X=FD+3=0 ie all commands
UnrecCommand@TextPointer	8671 8A TXA	<input type="checkbox"/>		X=start command,
	8672 BA TSX	<input type="checkbox"/>		textpointer+Y = cmd line
	8673 86 B6 STX &B6	<input type="checkbox"/>		&B6=STACKP
	8675 AA TAX	<input type="checkbox"/>		
	8676 98 TYA	<input type="checkbox"/>		save Y
	8677 48 PHA	<input type="checkbox"/>		
.unrecloop	8678 E8 INX	<input type="checkbox"/>		next 3 bytes ignored
	8679 E8 INX	<input type="checkbox"/>		contain addr/code of prev.
	867A 68 PLA	<input type="checkbox"/>		entry in table
	867B 48 PHA	<input type="checkbox"/>		read Y
	867C A8 TAY	<input type="checkbox"/>		Y=offset of word textpointer

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	867D 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		assume X preserved
	8680 E8 INX	<input type="checkbox"/>		
	8681 BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		
	8684 30 28 BMI .gocmdcode	<input type="checkbox"/>		end of table?
	8686 CA DEX	<input type="checkbox"/>		init next loop
	8687 88 DEY	<input type="checkbox"/>		
	8688 86 B8 STX &B8	<input type="checkbox"/>		?B8=start of next string-1
.unrecloop2	868A E8 INX	<input type="checkbox"/>		compare strings
	868B C8 INY	<input type="checkbox"/>		
	868C BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		
	868F 30 16 BMI .endofcmd oncmdline?	<input type="checkbox"/>		end of table "cmd" - matched!
	8691 51 F2 EOR (TextPointer),Y	<input type="checkbox"/>		
	8693 29 5F AND #&5F	<input type="checkbox"/>		ignore case
	8695 F0 F3 BEQ .unrecloop2	<input type="checkbox"/>		while chrs eq go loop2
	8697 CA DEX	<input type="checkbox"/>		init next loop
.unrecloop3	8698 E8 INX	<input type="checkbox"/>		
	8699 BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		
	869C 10 FA BPL .unrecloop3	<input type="checkbox"/>		find end of table "cmd"
	869E B1 F2 LDA (TextPointer),Y	<input type="checkbox"/>		does cmd line end with
	86A0 C9 2E CMP #&2E	<input type="checkbox"/>		full stop?
	86A2 D0 D4 BNE .unrecloop	<input type="checkbox"/>		no, so no match
	86A4 C8 INY	<input type="checkbox"/>		
	86A5 B0 07 BCS .gocmdcode	<input type="checkbox"/>		>="."
.endofcmd oncmdline?	86A7 B1 F2 LDA (TextPointer),Y	<input type="checkbox"/>		strings matched so far
	86A9 20 EE 82 JSR alphachr_ifC=0 (A=Chr) A preserved	<input type="checkbox"/>		is end of command on
	86AC 90 CA BCC .unrecloop	<input type="checkbox"/>		cmd line, c=0=no, go next cmd
.gocmdcode	86AE 68 PLA	<input type="checkbox"/>		cmd matched, go code
	86AF BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		return to address in table+1
	86B2 48 PHA	<input type="checkbox"/>		
	86B3 BD B9 85 LDA .cmdlist+1,X	<input type="checkbox"/>		
	86B6 48 PHA	<input type="checkbox"/>		
	86B7 60 RTS	<input type="checkbox"/>		
SetTextPointer=Y*100+X	86B8 86 F2 STX TextPointer	<input type="checkbox"/>		
	86BA 84 F3 STY TextPointerHi	<input type="checkbox"/>		
	86BC A0 00 LDY #&00	<input type="checkbox"/>		
	86BE 60 RTS	<input type="checkbox"/>		
GoGSINIT(terminator=spc/cr/")	86BF 18 CLC	<input type="checkbox"/>		C=0 first spc,Cr or 2nd" terminates
	86C0 4C C2 FF JMP GSINIT	<input type="checkbox"/>		
CMD_WIPE	86C3 20 5E 82 JSR parameter_afsp	<input type="checkbox"/>		
	86C6 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	86C9 20 68 82 JSR cmd_info_afsp_cmdl	<input type="checkbox"/>		load cat & return offset
	86CC B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	86CF 30 12 BMI &86E3	<input type="checkbox"/>		
	86D1 20 C0 81 JSR prt_filename(Y=offset)	<input type="checkbox"/>		Prompt confirm?
	86D4 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print " : "
	86D7 20 3A 20 :	<input type="checkbox"/>		
	86DA EA NOP	<input type="checkbox"/>		
	86DB 20 9E 9C JSR ConfirmYN (Z=1 if Yes)	<input type="checkbox"/>		
	86DE F0 09 BEQ &86E9	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	86E0 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	86E3 20 9D 82 JSR get_cat_nextentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	86E6 B0 E4 BCS &86CC	<input type="checkbox"/>		
	86E8 60 RTS	<input type="checkbox"/>		
	86E9 20 A1 81 JSR checkforDiskChange	<input type="checkbox"/>		
	86EC 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		
	86EF 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>		save cat
	86F2 AC CE 10 LDY &10CE	<input type="checkbox"/>		
	86F5 20 19 82 JSR .Y=Y-8	<input type="checkbox"/>		
	86F8 8C CE 10 STY &10CE	<input type="checkbox"/>		
	86FB 4C E0 86 JMP &86E0	<input type="checkbox"/>		
CMD_DELETE	86FE 20 62 82 JSR parameter_fsp	<input type="checkbox"/>		
	8701 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	8704 20 68 82 JSR cmd_info_afsp_cmdl	<input type="checkbox"/>		load cat & return offset
	8707 20 FC 82 JSR prt_InfoLineif?10c7>=&80,Y=o/set	<input type="checkbox"/>		
	870A 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		
	870D 4C B4 8A JMP SaveCatToDisk	<input type="checkbox"/>		save cat
CMD_DESTROY	8710 20 BD 9B JSR ENABLEDCMD	<input type="checkbox"/>		
	8713 20 5E 82 JSR parameter_afsp	<input type="checkbox"/>		
	8716 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	8719 20 68 82 JSR cmd_info_afsp_cmdl	<input type="checkbox"/>		load cat & return offset
	871C B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	871F 30 06 BMI &8727	<input type="checkbox"/>		
	8721 20 C0 81 JSR prt_filename(Y=offset)	<input type="checkbox"/>		
	8724 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	8727 20 9D 82 JSR get_cat_nextentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	872A B0 F0 BCS &871C	<input type="checkbox"/>		
	872C 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	872F 0D 44 65 6C 65 74 65 20 .Delete	<input type="checkbox"/>		
	8737 28 59 2F 4E 29 20 3F 20 (Y/N) ?	<input type="checkbox"/>		
	873F EA NOP	<input type="checkbox"/>		
	8740 20 9E 9C JSR ConfirmYN (Z=1 if Yes)	<input type="checkbox"/>		
	8743 F0 03 BEQ &8748	<input type="checkbox"/>		
	8745 4C 9A 9F JMP prtNewLine (A preserved)	<input type="checkbox"/>		
	8748 20 A1 81 JSR checkforDiskChange	<input type="checkbox"/>		
	874B 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	874E B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	8751 30 0C BMI &875F	<input type="checkbox"/>		
	8753 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		
	8756 AC CE 10 LDY &10CE	<input type="checkbox"/>		
	8759 20 19 82 JSR .Y=Y-8	<input type="checkbox"/>		
	875C 8C CE 10 STY &10CE	<input type="checkbox"/>		
	875F 20 9D 82 JSR get_cat_nextentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	8762 B0 EA BCS &874E	<input type="checkbox"/>		
	8764 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>		save cat
.msgDELETED	8767 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	876A 0D 44 65 6C 65 74 65 64 .Deleted	<input type="checkbox"/>		
	8772 0D .	<input type="checkbox"/>		
	8773 EA NOP	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8774 60 RTS	<input type="checkbox"/>		
CMD_DRIVE	8775 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		Syntax err if no params
	8778 20 5D 83 JSR GetDriveNo (A=DrvNo,C=0,XY preserved)	<input type="checkbox"/>		
	877B 8D CB 10 STA &10CB	<input type="checkbox"/>		
SetCurrentDrive	877E 20 D6 8C JSR FDC_WaitIfBusy (AXY preserved)	<input type="checkbox"/>	NOP	wait til drive not busy
		<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
	8781 29 03 AND #&03	<input type="checkbox"/>		
	8783 85 CF STA CurrentDrv	<input type="checkbox"/>		
	8785 60 RTS	<input type="checkbox"/>		end
.osfile0_savememblock	8786 20 61 89 JSR .createfile fsp@(&BC)	<input type="checkbox"/>		
	8789 20 6E 98 JSR .986e pwsptr=?10DC/DD	<input type="checkbox"/>		
	878C 20 7B 83 JSR readfileattribs Y=offset of file	<input type="checkbox"/>		
.savememblock	878F 20 1F 8C JSR LoadNMI0Write@0E00_TubeInit (ex.Z=0)	<input type="checkbox"/>	JMP mmcsavememblock	
	8792 D0 35 BNE BLOCK D .doREADWRITE	<input type="checkbox"/>	NOP	always
		<input type="checkbox"/>	NOP	
.osfileFF_loadfiletoaddr	8794 20 6E 82 JSR getcatentry_(a)fsp_@(&BC)_(r.:C=1=found,Y=offset)	<input type="checkbox"/>		Get Load Addr etc.
	8797 20 6E 98 JSR .986e pwsptr=?10DC/DD	<input type="checkbox"/>		from catalogue
	879A 20 7E 83 JSR readfileattribs Y=offset of file	<input type="checkbox"/>		(Just for info?)
.loadfile	879D 84 BC STY TextPointer_dfs	<input type="checkbox"/>		Y=fileoffset
	879F A2 00 LDX #&00	<input type="checkbox"/>		
	87A1 A5 C0 LDA &C0	<input type="checkbox"/>		if ?C0=0 don't
	87A3 D0 06 BNE .load@LoadAddr	<input type="checkbox"/>		do Load Addr
	87A5 C8 INY	<input type="checkbox"/>		else use existing
	87A6 C8 INY	<input type="checkbox"/>		
	87A7 A2 02 LDX #&02	<input type="checkbox"/>		
	87A9 D0 08 BNE .load_copyfileinfo_loop	<input type="checkbox"/>		always
.load@LoadAddr	87AB B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		"mixed byte"
	87AE 85 C4 STA &C4	<input type="checkbox"/>		
	87B0 20 3F 8A JSR LoadAddrHi2(?C4=mixed byte : if Host=FFFF)	<input type="checkbox"/>		
.load_copyfileinfo_loop	87B3 B9 08 0F LDA &0F08,Y	<input type="checkbox"/>		
	87B6 95 BE STA &BE,X	<input type="checkbox"/>		BE-C5 / C0-C5
	87B8 C8 INY	<input type="checkbox"/>		=file attributes
	87B9 E8 INX	<input type="checkbox"/>		
	87BA E0 08 CPX #&08	<input type="checkbox"/>		
	87BC D0 F5 BNE .load_copyfileinfo_loop	<input type="checkbox"/>		
	87BE 20 56 8A JSR ExecAddrHi2(?C4=mixed byte)	<input type="checkbox"/>		
	87C1 A4 BC LDY TextPointer_dfs	<input type="checkbox"/>		
	87C3 20 FC 82 JSR prt_InfoLineif?10c7>=&80,Y=o/set	<input type="checkbox"/>		opt. print file info
.loadmemblock	87C6 20 11 8C JSR LoadNMI1Read@0E00_TubeInit (ex.Z=0)	<input checked="" type="checkbox"/>	JMP mmloadmemblock	
BLOCK D .doREADWRITE	87C9 20 22 82 JSR BLOCK Y InitNMIVars	<input checked="" type="checkbox"/>		
	87CC 20 78 8C JSR FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	<input checked="" type="checkbox"/>		
	87CF A9 01 LDA #&01	<input checked="" type="checkbox"/>		
	87D1 4C E7 98 JMP RELEASE_NMI_WaitFDCbusy (A=bitmask)(AXY preserved)	<input checked="" type="checkbox"/>		END LOAD/SAVE
.fscv2&4_*/or*RUN	87D4 20 B8 86 JSR SetTextPointer=Y*100+X	<input type="checkbox"/>		
cmdnotintable1	87D7 20 41 88 JSR WordBC=TextPointer&?C0=FF	<input type="checkbox"/>		
	87DA 8C DB 10 STY &10DB	<input type="checkbox"/>		
	87DD 20 06 81 JSR read_(a)fsp@(&BC) (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	87E0 8C DA 10 STY &10DA	<input type="checkbox"/>		SAVE Y

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Label	Code	Zero	New Instruction	Comment
	87E3 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	87E6 B0 22 BCS .runfilefound	<input type="checkbox"/>		
	87E8 AC DB 10 LDY &10DB	<input type="checkbox"/>		
	87EB AD CC 10 LDA &10CC	<input type="checkbox"/>		
	87EE 85 CE STA DirectoryParam	<input type="checkbox"/>		
	87F0 AD CD 10 LDA &10CD	<input type="checkbox"/>		
	87F3 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	87F6 20 09 81 JSR .clear(a)fsp&restoreTextPtr	<input type="checkbox"/>		
	87F9 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	87FC B0 0C BCS .runfilefound	<input type="checkbox"/>		
.errBADCOMMAND	87FE 20 22 80 JSR .errBAD	<input type="checkbox"/>		
	8801 FE 63 6F 6D 6D 61 6E 64 pcommand	<input type="checkbox"/>		
	8809 00 .	<input type="checkbox"/>		
.runfilefound	880A 20 9D 87 JSR .loadfile	<input type="checkbox"/>		
	880D 18 CLC	<input type="checkbox"/>		
	880E AD DA 10 LDA &10DA	<input type="checkbox"/>		RETRIVE Y
	8811 A8 TAY	<input type="checkbox"/>		ADD TO TEXTPTR
	8812 65 F2 ADC TextPointer	<input type="checkbox"/>		
	8814 8D DA 10 STA &10DA	<input type="checkbox"/>		
	8817 A5 F3 LDA TextPointerHi	<input type="checkbox"/>		
	8819 69 00 ADC #&00	<input type="checkbox"/>		
	881B 8D DB 10 STA &10DB	<input type="checkbox"/>		w10DA=parameter ptr
	881E AD 76 10 LDA &1076	<input type="checkbox"/>		execution address
	8821 2D 77 10 AND &1077	<input type="checkbox"/>		high bytes!
	8824 0D D7 10 ORA TubePresentIf0	<input type="checkbox"/>		
	8827 C9 FF CMP #&FF	<input type="checkbox"/>		
	8829 F0 13 BEQ .jump(C0)	<input type="checkbox"/>		Branch if no TUBE??
	882B A5 C0 LDA &C0	<input type="checkbox"/>		
	882D 8D 74 10 STA &1074	<input type="checkbox"/>		
	8830 A5 C1 LDA &C1	<input type="checkbox"/>		
	8832 8D 75 10 STA &1075	<input type="checkbox"/>		
	8835 A2 74 LDX #&74	<input type="checkbox"/>		
	8837 A0 10 LDY #&10	<input type="checkbox"/>		
	8839 A9 04 LDA #&04	<input type="checkbox"/>		
	883B 4C 06 04 JMP TubeCode(YX=addr,A=0:initrd,A=1:initwr,A=4:strexe)	<input type="checkbox"/>		TUBE execute AUG 345
.jump(C0)	883E 6C C0 00 JMP (&00C0)	<input type="checkbox"/>		
WordBC=TextPointer&?C0=FF	8841 A9 FF LDA #&FF	<input type="checkbox"/>		
	8843 85 C0 STA &C0	<input type="checkbox"/>		
	8845 A5 F2 LDA TextPointer	<input type="checkbox"/>		
	8847 85 BC STA TextPointer_dfs	<input type="checkbox"/>		
	8849 A5 F3 LDA TextPointerHi	<input type="checkbox"/>		
	884B 85 BD STA &BD	<input type="checkbox"/>		
	884D 60 RTS	<input type="checkbox"/>		
CMD_DIR	884E A2 00 LDX #&00	<input type="checkbox"/>		
	8850 F0 02 BEQ &8854	<input type="checkbox"/>		
CMD_LIB	8852 A2 02 LDX #&02	<input type="checkbox"/>		
	8854 20 60 88 JSR .8860	<input type="checkbox"/>		
	8857 9D CB 10 STA &10CB,X	<input type="checkbox"/>		??10ok
	885A A5 CE LDA DirectoryParam	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	885C 9D CA 10 STA &10CA,X	<input type="checkbox"/>		??10ok
	885F 60 RTS	<input type="checkbox"/>		
.8860	8860 A9 24 LDA #&24	<input type="checkbox"/>		
	8862 85 CE STA DirectoryParam	<input type="checkbox"/>		
	8864 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	8867 D0 07 BNE &8870	<input type="checkbox"/>		
	8869 A9 00 LDA #&00	<input type="checkbox"/>		
	886B 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	886E F0 30 BEQ &88A0	<input type="checkbox"/>		
	8870 AD CB 10 LDA &10CB	<input type="checkbox"/>		
	8873 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	8876 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	8879 B0 10 BCS .errBADDIRECTORY	<input type="checkbox"/>		
	887B C9 3A CMP #&3A	<input type="checkbox"/>		
	887D D0 1A BNE &8899	<input type="checkbox"/>		
	887F 20 5D 83 JSR GetDriveNo (A=DrvNo,C=0,XY preserved)	<input type="checkbox"/>		
	8882 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	8885 B0 19 BCS &88A0	<input type="checkbox"/>		
	8887 C9 2E CMP #&2E	<input type="checkbox"/>		
	8889 F0 EB BEQ &8876	<input type="checkbox"/>		
.errBADDIRECTORY	888B 20 22 80 JSR .errBAD	<input type="checkbox"/>		
	888E CE 64 69 72 65 63 74 6F indirecto	<input type="checkbox"/>		
	8896 72 79 00 ry.	<input type="checkbox"/>		
	8899 85 CE STA DirectoryParam	<input type="checkbox"/>		
	889B 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	889E 90 EB BCC .errBADDIRECTORY	<input type="checkbox"/>		
	88A0 A5 CF LDA CurrentDrv	<input type="checkbox"/>		
	88A2 60 RTS	<input type="checkbox"/>		
CMD_TITLE	88A3 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	88A6 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
	88A9 20 47 83 JSR LoadCurDrvCat (preserve AXY)	<input type="checkbox"/>		load cat
	88AC A2 0B LDX #&0B	<input type="checkbox"/>	JMP mmodisktitle	
	88AE A9 00 LDA #&00	<input type="checkbox"/>		
	88B0 20 C6 88 JSR &88C6	<input type="checkbox"/>		
	88B3 CA DEX	<input type="checkbox"/>		
	88B4 10 FA BPL &88B0	<input type="checkbox"/>		
	88B6 E8 INX	<input type="checkbox"/>		
	88B7 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	88BA B0 07 BCS &88C3	<input type="checkbox"/>		
	88BC 20 C6 88 JSR &88C6	<input type="checkbox"/>		
	88BF E0 0B CPX #&0B	<input type="checkbox"/>		
	88C1 90 F3 BCC &88B6	<input type="checkbox"/>		
	88C3 4C B4 8A JMP SaveCatToDisk	<input type="checkbox"/>		save cat (not used)
	88C6 E0 08 CPX #&08	<input type="checkbox"/>		
	88C8 90 04 BCC &88CE	<input type="checkbox"/>		
	88CA 9D F8 0E STA &0EF8,X	<input type="checkbox"/>		
	88CD 60 RTS	<input type="checkbox"/>		
	88CE 9D 00 0E STA &0E00,X	<input type="checkbox"/>		
	88D1 60 RTS	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
CMD_ACCESS	88D2 20 5E 82 JSR parameter_afsp	<input type="checkbox"/>		
	88D5 20 01 9A JSR initparam (syntax error if none)	<input type="checkbox"/>		
	88D8 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	88DB A2 00 LDX #&00	<input type="checkbox"/>		
	88DD 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	88E0 D0 23 BNE &8905	<input type="checkbox"/>		
	88E2 86 AA STX &AA	<input type="checkbox"/>		
	88E4 20 96 82 JSR get_cat_firstentry(return:C=l=found,Y=offset)	<input type="checkbox"/>		
	88E7 B0 03 BCS &88EC	<input type="checkbox"/>		
	88E9 4C 76 82 JMP err_FILENOTFOUND	<input type="checkbox"/>		
	88EC 20 4F 98 JSR &984F	<input type="checkbox"/>		
	88EF B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	88F2 29 7F AND #&7F	<input type="checkbox"/>		
	88F4 05 AA ORA &AA	<input type="checkbox"/>		
	88F6 99 0F 0E STA &0E0F,Y	<input type="checkbox"/>		
	88F9 20 FC 82 JSR prt_InfoLineif?10c7>=&80,Y=o/set	<input type="checkbox"/>		
	88FC 20 9D 82 JSR get_cat_nextentry(return:C=l=found,Y=offset)	<input type="checkbox"/>		
	88FF B0 EB BCS &88EC	<input type="checkbox"/>		
	8901 90 C0 BCC &88C3	<input type="checkbox"/>		
	8903 A2 80 LDX #&80	<input type="checkbox"/>		
	8905 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	8908 B0 D8 BCS &88E2	<input type="checkbox"/>		
	890A C9 4C CMP #&4C	<input type="checkbox"/>		"L"
	890C F0 F5 BEQ &8903	<input type="checkbox"/>		
.errBADATTRIBUTE	890E 20 22 80 JSR .errBAD	<input type="checkbox"/>		
	8911 CF 61 74 74 72 69 62 75 ĩattribu	<input type="checkbox"/>		
	8919 74 65 te	<input type="checkbox"/>		
	891B 00 BRK	<input type="checkbox"/>		
.fscv0_*OPT	891C 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	891F 8A TXA	<input type="checkbox"/>		
	8920 C9 04 CMP #&04	<input type="checkbox"/>		
	8922 F0 1A BEQ SetBootOption Y=option	<input type="checkbox"/>		
	8924 C9 02 CMP #&02	<input type="checkbox"/>		
	8926 90 0B BCC &8933	<input type="checkbox"/>		
.errBADOPTION	8928 20 22 80 JSR .errBAD	<input type="checkbox"/>		
	892B CB 6F 70 74 69 6F 6E 00 ĩoption.	<input type="checkbox"/>		
	8933 A2 FF LDX #&FF	<input type="checkbox"/>		*OPT 1,X
	8935 98 TYA	<input type="checkbox"/>		
	8936 F0 02 BEQ &893A	<input type="checkbox"/>		
	8938 A2 00 LDX #&00	<input type="checkbox"/>		
	893A 8E C7 10 STX &10C7	<input type="checkbox"/>		
	893D 60 RTS	<input type="checkbox"/>		
SetBootOption Y=option	893E 98 TYA	<input type="checkbox"/>		
	893F 48 PHA	<input type="checkbox"/>		
	8940 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
	8943 20 EB 8A JSR LoadCurDrvCatalog	<input type="checkbox"/>	JSR mmloadcurdrvcat	load cat
	8946 68 PLA	<input type="checkbox"/>		
	8947 20 0B 82 JSR .A<<4	<input type="checkbox"/>		
	894A 4D 06 0F EOR &0F06	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	894D 29 30 AND #&30	<input type="checkbox"/>		
	894F 4D 06 0F EOR &0F06	<input type="checkbox"/>		
	8952 8D 06 0F STA &0F06	<input type="checkbox"/>		
	8955 4C B4 8A JMP SaveCatToDisk	<input type="checkbox"/>		save cat
.errDISKFULL	8958 20 18 80 JSR .errDISK	<input type="checkbox"/>		
	895B C6 66 75 6C 6C 00 &full.	<input type="checkbox"/>		
.createfile fsp@(&BC)	8961 20 06 81 JSR read_(a)fsp@(&BC) (ret.Y=Ippoffset nonblank)	<input type="checkbox"/>		loads cat
	8964 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		does file exist
	8967 90 03 BCC .createfile_nodel	<input type="checkbox"/>		
	8969 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		delete previous file
.createfile_nodel	896C A5 C2 LDA &C2	<input type="checkbox"/>		save wC2
	896E 48 PHA	<input type="checkbox"/>		
	896F A5 C3 LDA &C3	<input type="checkbox"/>		
	8971 48 PHA	<input type="checkbox"/>		
	8972 38 SEC	<input type="checkbox"/>		
	8973 A5 C4 LDA &C4	<input type="checkbox"/>		wC2=wC4-wC2
	8975 E5 C2 SBC &C2	<input type="checkbox"/>		
	8977 85 C2 STA &C2	<input type="checkbox"/>		
	8979 A5 C5 LDA &C5	<input type="checkbox"/>		
	897B E5 C3 SBC &C3	<input type="checkbox"/>		
	897D 85 C3 STA &C3	<input type="checkbox"/>		
	897F AD 7A 10 LDA &107A	<input type="checkbox"/>		
	8982 ED 78 10 SBC &1078	<input type="checkbox"/>		
	8985 85 C6 STA &C6	<input type="checkbox"/>		
	8987 20 9D 89 JSR .createfile_2	<input type="checkbox"/>		
	898A AD 79 10 LDA &1079	<input type="checkbox"/>		
	898D 8D 75 10 STA &1075	<input type="checkbox"/>		
	8990 AD 78 10 LDA &1078	<input type="checkbox"/>		
	8993 8D 74 10 STA &1074	<input type="checkbox"/>		
	8996 68 PLA	<input type="checkbox"/>		
	8997 85 BF STA &BF	<input type="checkbox"/>		
	8999 68 PLA	<input type="checkbox"/>		
	899A 85 BE STA &BE	<input type="checkbox"/>		
	899C 60 RTS	<input type="checkbox"/>		
.createfile_2	899D A9 00 LDA #&00	<input type="checkbox"/>		NB Cat stored in
	899F 85 C4 STA &C4	<input type="checkbox"/>		desc start sec order
	89A1 A9 02 LDA #&02	<input type="checkbox"/>		(file at 002 last)
	89A3 85 C5 STA &C5	<input type="checkbox"/>		c4/c5=&200
	89A5 AC 05 0F LDY FilesX8	<input type="checkbox"/>		find free block
	89A8 F0 2D BEQ .createfile_endofdisk	<input type="checkbox"/>		big enough
	89AA C0 F8 CPY #&F8	<input type="checkbox"/>		for new file
	89AC B0 56 BCS .errCATALOGUEFULL	<input type="checkbox"/>		
	89AE 20 9E 85 JSR .getfirstblock	<input type="checkbox"/>		
	89B1 4C BC 89 JMP .createfile_cont2	<input type="checkbox"/>		
.createfile_loop	89B4 F0 A2 BEQ .errDISKFULL	<input type="checkbox"/>		
	89B6 20 19 82 JSR .Y=Y-8	<input type="checkbox"/>		
	89B9 20 7F 85 JSR .getnextblock	<input type="checkbox"/>		
.createfile_cont2	89BC 98 TYA	<input type="checkbox"/>		
	89BD 90 F5 BCC .createfile_loop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	89BF 84 B0 STY PrivateWorkspacePointer	<input type="checkbox"/>		block found
	89C1 AC 05 0F LDY FilesX8	<input type="checkbox"/>		
.createfile_insertfileloop	89C4 C4 B0 CPY PrivateWorkspacePointer	<input type="checkbox"/>		
	89C6 F0 0F BEQ .createfile_endofdisk	<input type="checkbox"/>		
	89C8 B9 07 0E LDA &0E07,Y	<input type="checkbox"/>		
	89CB 99 0F 0E STA &0E0F,Y	<input type="checkbox"/>		
	89CE B9 07 0F LDA &0F07,Y	<input type="checkbox"/>		
	89D1 99 0F 0F STA &0F0F,Y	<input type="checkbox"/>		
	89D4 88 DEY	<input type="checkbox"/>		
	89D5 B0 ED BCS .createfile_insertfileloop	<input type="checkbox"/>		
.createfile_endofdisk	89D7 A2 00 LDX #&00	<input type="checkbox"/>		
	89D9 20 17 8A JSR .8a17	<input type="checkbox"/>		
	89DC B5 C7 LDA FilenameParam,X	<input type="checkbox"/>		
	89DE 99 08 0E STA &0E08,Y	<input type="checkbox"/>		
	89E1 C8 INY	<input type="checkbox"/>		
	89E2 E8 INX	<input type="checkbox"/>		
	89E3 E0 08 CPX #&08	<input type="checkbox"/>		
	89E5 D0 F5 BNE &89DC	<input type="checkbox"/>		
	89E7 B5 BD LDA &BD,X	<input type="checkbox"/>		
	89E9 88 DEY	<input type="checkbox"/>		
	89EA 99 08 0F STA &0F08,Y	<input type="checkbox"/>		
	89ED CA DEX	<input type="checkbox"/>		
	89EE D0 F7 BNE &89E7	<input type="checkbox"/>		
	89F0 20 FC 82 JSR prt_InfoLineif?10c7>=&80,Y=o/set	<input type="checkbox"/>		
	89F3 98 TYA	<input type="checkbox"/>		
	89F4 48 PHA	<input type="checkbox"/>		
	89F5 AC 05 0F LDY FilesX8	<input type="checkbox"/>		
	89F8 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	89FB 8C 05 0F STY FilesX8	<input type="checkbox"/>		
	89FE 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>		save cat
	8A01 68 PLA	<input type="checkbox"/>		
	8A02 A8 TAY	<input type="checkbox"/>		
	8A03 60 RTS	<input type="checkbox"/>		
.errCATALOGUEFULL	8A04 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	8A07 BE 43 61 74 61 6C 6F 67 %Catalog	<input type="checkbox"/>		
	8A0F 75 65 20 66 75 6C 6C 00 ue full.	<input type="checkbox"/>		
.8a17	8A17 AD 76 10 LDA &1076	<input type="checkbox"/>		
	8A1A 29 03 AND #&03	<input type="checkbox"/>		
	8A1C 0A ASL	<input type="checkbox"/>		
	8A1D 0A ASL	<input type="checkbox"/>		
	8A1E 45 C6 EOR &C6	<input type="checkbox"/>		
	8A20 29 FC AND #&FC	<input type="checkbox"/>		
	8A22 45 C6 EOR &C6	<input type="checkbox"/>		
	8A24 0A ASL	<input type="checkbox"/>		
	8A25 0A ASL	<input type="checkbox"/>		
	8A26 4D 74 10 EOR &1074	<input type="checkbox"/>		
	8A29 29 FC AND #&FC	<input type="checkbox"/>		
	8A2B 4D 74 10 EOR &1074	<input type="checkbox"/>		
	8A2E 0A ASL	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8A2F 0A ASL	<input type="checkbox"/>		
	8A30 45 C4 EOR &C4	<input type="checkbox"/>		
	8A32 29 FC AND #&FC	<input type="checkbox"/>		
	8A34 45 C4 EOR &C4	<input type="checkbox"/>		
	8A36 85 C4 STA &C4	<input type="checkbox"/>		
	8A38 60 RTS	<input type="checkbox"/>		
CMD_ENABLE	8A39 A9 01 LDA #&01	<input type="checkbox"/>		
	8A3B 8D C8 10 STA CMDEnabledIf1	<input type="checkbox"/>		
	8A3E 60 RTS	<input type="checkbox"/>		
LoadAddrHi2(?C4=mixed byte : if Host=FFFF)	8A3F A9 00 LDA #&00	<input type="checkbox"/>		
	8A41 8D 75 10 STA &1075	<input type="checkbox"/>		
	8A44 A5 C4 LDA &C4	<input type="checkbox"/>		"mixed byte"
	8A46 20 FF 81 JSR .A>>2 and 3	<input type="checkbox"/>		load addr
	8A49 C9 03 CMP #&03	<input type="checkbox"/>		
	8A4B D0 05 BNE .notHost	<input type="checkbox"/>		
	8A4D A9 FF LDA #&FF	<input type="checkbox"/>		host addr
	8A4F 8D 75 10 STA &1075	<input type="checkbox"/>		
.notHost	8A52 8D 74 10 STA &1074	<input type="checkbox"/>		
	8A55 60 RTS	<input type="checkbox"/>		
ExecAddrHi2(?C4=mixed byte)	8A56 A9 00 LDA #&00	<input type="checkbox"/>		
	8A58 8D 77 10 STA &1077	<input type="checkbox"/>		
	8A5B A5 C4 LDA &C4	<input type="checkbox"/>		
	8A5D 20 FB 81 JSR .A>>6 and 3	<input type="checkbox"/>		
	8A60 C9 03 CMP #&03	<input type="checkbox"/>		
	8A62 D0 05 BNE &8A69	<input type="checkbox"/>		
	8A64 A9 FF LDA #&FF	<input type="checkbox"/>		
	8A66 8D 77 10 STA &1077	<input type="checkbox"/>		
	8A69 8D 76 10 STA &1076	<input type="checkbox"/>		
	8A6C 60 RTS	<input type="checkbox"/>		
CMD_RENAME	8A6D 20 62 82 JSR parameter_fsp	<input type="checkbox"/>		
	8A70 20 BF 86 JSR GoGSINIT(terminator=spc/cr/)	<input type="checkbox"/>		
	8A73 D0 03 BNE .cmd_rename_params	<input type="checkbox"/>		null string
.cmd_rename_syntax	8A75 4C 06 9A JMP .syntaxerr	<input type="checkbox"/>		
.cmd_rename_params	8A78 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	8A7B 98 TYA	<input type="checkbox"/>		
	8A7C 48 PHA	<input type="checkbox"/>		
	8A7D 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	8A80 B0 03 BCS .cmd_rename_filefound	<input type="checkbox"/>		
	8A82 4C 76 82 JMP err_FILENOTFOUND	<input type="checkbox"/>		
.cmd_rename_filefound	8A85 20 4C 98 JSR CheckFileNotOpen	<input type="checkbox"/>		
	8A88 84 B3 STY &B3	<input type="checkbox"/>		
	8A8A 68 PLA	<input type="checkbox"/>		
	8A8B A8 TAY	<input type="checkbox"/>		
	8A8C 20 BF 86 JSR GoGSINIT(terminator=spc/cr/)	<input type="checkbox"/>		read new name
	8A8F F0 E4 BEQ .cmd_rename_syntax	<input type="checkbox"/>		null string
	8A91 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	8A94 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		check doesn't exist
	8A97 90 0B BCC .cmd_rename_newnameOK	<input type="checkbox"/>		
.errFILEEXISTS	8A99 20 2B 80 JSR .errFILE	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8A9C C4 65 78 69 73 74 73 00 Æexists.	<input type="checkbox"/>		
.cmd_rename_newnameOK	8AA4 A4 B3 LDY &B3	<input type="checkbox"/>		
	8AA6 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	8AA9 A2 07 LDX #&07	<input type="checkbox"/>		
.cmd_rename_changeloop	8AAB B5 C7 LDA FilenameParam,X	<input type="checkbox"/>		
	8AAD 99 07 0E STA &0E07,Y	<input type="checkbox"/>		
	8AB0 88 DEY	<input type="checkbox"/>		
	8AB1 CA DEX	<input type="checkbox"/>		
	8AB2 10 F7 BPL .cmd_rename_changeloop	<input type="checkbox"/>		
SaveCatToDisk	8AB4 18 CLC	<input type="checkbox"/>		Increment Cycle No
	8AB5 F8 SED	<input type="checkbox"/>		
	8AB6 AD 04 0F LDA &0F04	<input type="checkbox"/>		
	8AB9 69 01 ADC #&01	<input type="checkbox"/>		
	8ABB D8 CLD	<input type="checkbox"/>		
	8ABC 8D 04 0F STA &0F04	<input type="checkbox"/>		
	8ABF 20 04 8B JSR ResetFDCNMI	<input checked="" type="checkbox"/>	JMP mmcsavecurdrvcat	
BLOCK X	8AC2 20 35 8C JSR SetRW_Attempts=&A	<input checked="" type="checkbox"/>		
.savecat_attemptsloop	8AC5 A0 2B LDY #&2B	<input checked="" type="checkbox"/>		
	8AC7 C6 A2 DEC NMI_RW_attempts	<input checked="" type="checkbox"/>		
	8AC9 30 56 BMI FDC_ERROR(A=FDC Result)	<input checked="" type="checkbox"/>		
	8ACB 20 88 8B JSR FDC_cmdfromtable Y=index (exit Y=nextindex)	<input checked="" type="checkbox"/>		verify track 0/secs 8 & 9
	8ACE 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	<input checked="" type="checkbox"/>		
	8AD1 D0 F2 BNE .savecat_attemptsloop	<input checked="" type="checkbox"/>		
	8AD3 20 24 8C JSR LoadNMI0Write@0E00	<input checked="" type="checkbox"/>		
	8AD6 D0 1C BNE RW_Curdrvcat	<input checked="" type="checkbox"/>		always
CheckCurDrvCatalog2	8AD8 20 4D 83 JSR setCECF_driveno	<input checked="" type="checkbox"/>		
	8ADB 20 58 83 JSR GetDriveNo_withInit	<input checked="" type="checkbox"/>		
CheckCurDrvCatalog	8ADE 20 BD 8B JSR FDC_DriveReady (Z=1=ready)	<input checked="" type="checkbox"/>		
	8AE1 F0 08 BEQ LoadCurDrvCatalog	<input checked="" type="checkbox"/>		
	8AE3 AD 82 10 LDA CurrentCrvCatalog	<input checked="" type="checkbox"/>		
	8AE6 C5 CF CMP CurrentDrv	<input checked="" type="checkbox"/>		
	8AE8 D0 01 BNE LoadCurDrvCatalog	<input checked="" type="checkbox"/>		
.ResetFDC_SeekOK	8AEA 60 RTS	<input checked="" type="checkbox"/>		Ok, no need to read?
LoadCurDrvCatalog	8AEB 20 9E 8B JSR FDC_DriveReady/Reset	<input checked="" type="checkbox"/>		
	8AEE 20 04 8B JSR ResetFDCNMI	<input checked="" type="checkbox"/>		
	8AF1 20 16 8C JSR LoadNMI1Read@0E00	<input checked="" type="checkbox"/>		
RW_Curdrvcat	8AF4 A9 00 LDA #&00	<input checked="" type="checkbox"/>		Host only!
	8AF6 8D D6 10 STA TubeTransferIfNotZero	<input checked="" type="checkbox"/>		
	8AF9 20 78 8C JSR FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	<input checked="" type="checkbox"/>		
	8AFC A5 CF LDA CurrentDrv	<input checked="" type="checkbox"/>		
	8AFE 8D 82 10 STA CurrentCrvCatalog	<input checked="" type="checkbox"/>		
	8B01 4C E7 98 JMP RELEASE_NMI_WaitFDCbusy (A=bitmask)(AXY preserved)	<input checked="" type="checkbox"/>		
ResetFDCNMI	8B04 A9 02 LDA #&02	<input checked="" type="checkbox"/>		Reset vars/NMI routine and seek trk 0
	8B06 20 AC 98 JSR BLOCK A CLAIM_NMI A=CODE No (0 to 6)	<input checked="" type="checkbox"/>		D00=RTI!
	8B09 A0 00 LDY #&00	<input checked="" type="checkbox"/>		
	8B0B 84 BA STY Track	<input checked="" type="checkbox"/>		?BA=0
	8B0D 84 BB STY Sector	<input checked="" type="checkbox"/>		?BB=0
	8B0F 84 A3 STY NMI_Counter1	<input checked="" type="checkbox"/>		?A3=0
	8B11 C8 INY	<input checked="" type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8B12 84 A5 STY NMI_Counter3	<input checked="" type="checkbox"/>		?A5=1
	8B14 C8 INY	<input checked="" type="checkbox"/>		
	8B15 84 A4 STY NMI_Counter2	<input checked="" type="checkbox"/>		?A4=2
	8B17 A0 28 LDY #&28	<input checked="" type="checkbox"/>		
	8B19 20 88 8B JSR FDC_cmdfromtable Y=index (exit Y=nextindex)	<input checked="" type="checkbox"/>		Seek trk 0
	8B1C 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	<input checked="" type="checkbox"/>		
	8B1F F0 C9 BEQ .ResetFDC_SeekOK	<input checked="" type="checkbox"/>		Seek OK exit
FDC_ERROR(A=FDC Result)	8B21 20 EA 98 JSR RELEASE_NMI (AXY preserved)	<input checked="" type="checkbox"/>		
	8B24 C9 12 CMP #&12	<input checked="" type="checkbox"/>		Disk Write Protected?
	8B26 D0 0E BNE .disknotwriteprotected	<input checked="" type="checkbox"/>		z=0=no
.err_DISKREADONLY	8B28 20 18 80 JSR .errDISK	<input checked="" type="checkbox"/>		
	8B2B C9 72 65 61 64 20 6F 6E ERead on	<input checked="" type="checkbox"/>		
	8B33 6C 79 00 ly.	<input checked="" type="checkbox"/>		
.disknotwriteprotected	8B36 48 PHA	<input checked="" type="checkbox"/>		
	8B37 C9 0A CMP #&0A	<input checked="" type="checkbox"/>		Late DMA
	8B39 F0 39 BEQ .errDRIVEFAULT	<input checked="" type="checkbox"/>		
	8B3B 29 0F AND #&0F	<input checked="" type="checkbox"/>		
	8B3D C9 08 CMP #&08	<input checked="" type="checkbox"/>		
	8B3F 90 33 BCC .errDRIVEFAULT	<input checked="" type="checkbox"/>		<8 (Comp.Type bit0 not set)
.errDISKFAULT	8B41 20 18 80 JSR .errDISK	<input checked="" type="checkbox"/>		
	8B44 C7 66 61 75 6C 74 20 Cfault	<input checked="" type="checkbox"/>		
	8B4B EA NOP	<input checked="" type="checkbox"/>		
.errFAULTDESC	8B4C 68 PLA	<input checked="" type="checkbox"/>		
	8B4D 20 C2 80 JSR prthex(A) A preserved	<input checked="" type="checkbox"/>		fault no (FDC result)
	8B50 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input checked="" type="checkbox"/>		
	8B53 20 61 74 20 at	<input checked="" type="checkbox"/>		
	8B57 A5 BA LDA Track	<input checked="" type="checkbox"/>		track?
	8B59 20 C2 80 JSR prthex(A) A preserved	<input checked="" type="checkbox"/>		
	8B5C A9 2F LDA #&2F	<input checked="" type="checkbox"/>		print "/"
	8B5E 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input checked="" type="checkbox"/>		
	8B61 A9 7D LDA #&7D	<input checked="" type="checkbox"/>		rd spec.reg
	8B63 20 BD 8C JSR FDC_WriteCmd A=Cmd (ret. C=drv)	<input checked="" type="checkbox"/>		
	8B66 A9 06 LDA #&06	<input checked="" type="checkbox"/>		sector no.
	8B68 20 B0 8C JSR FDC_WriteParam A=Param	<input checked="" type="checkbox"/>		
	8B6B 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	<input checked="" type="checkbox"/>		
	8B6E 20 C2 80 JSR prthex(A) A preserved	<input checked="" type="checkbox"/>		print sector
	8B71 4C 8A 80 JMP prtstr_BRK	<input checked="" type="checkbox"/>		force error
.errDRIVEFAULT	8B74 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input checked="" type="checkbox"/>		
	8B77 C5 44 72 69 76 65 20 66 ADrive f	<input checked="" type="checkbox"/>		
	8B7F 61 75 6C 74 20 ault	<input checked="" type="checkbox"/>		
	8B84 EA NOP	<input checked="" type="checkbox"/>		
	8B85 4C 4C 8B JMP .errFAULTDESC	<input checked="" type="checkbox"/>		
	8B87 8B <	<input checked="" type="checkbox"/>		
FDC_cmdfromtable Y=index (exit Y=nextindex)	8B88 B9 E2 8C LDA .fdccmdtable0,Y	<input checked="" type="checkbox"/>		write cmd
	8B8B 20 BD 8C JSR FDC_WriteCmd A=Cmd (ret. C=drv)	<input checked="" type="checkbox"/>		
.fdc_cmdfromtbl_loop	8B8E C8 INY	<input checked="" type="checkbox"/>		write parameters
	8B8F B9 E2 8C LDA .fdccmdtable0,Y	<input checked="" type="checkbox"/>		end with EA
	8B92 C9 EA CMP #&EA	<input checked="" type="checkbox"/>		
	8B94 F0 06 BEQ .fdc_cmdfromtbl_exitloop	<input checked="" type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	8B96 20 B0 8C JSR FDC_WriteParam A=Param	<input checked="" type="checkbox"/>		
	8B99 4C 8E 8B JMP .fdc_cmdfromtbl_loop	<input checked="" type="checkbox"/>		
.fdc_cmdfromtbl_exitloop	8B9C C8 INY	<input checked="" type="checkbox"/>		
	8B9D 60 RTS	<input checked="" type="checkbox"/>		
FDC_DriveReady/Reset	8B9E 48 PHA	<input checked="" type="checkbox"/>		reset for current drv
	8B9F 98 TYA	<input checked="" type="checkbox"/>		and check drv ready
	8BA0 48 PHA	<input checked="" type="checkbox"/>		
	8BA1 A5 CF LDA CurrentDrv	<input checked="" type="checkbox"/>		
	8BA3 A8 TAY	<input checked="" type="checkbox"/>		
	8BA4 A9 3A LDA #&3A	<input checked="" type="checkbox"/>		FDC Write Special Register
	8BA6 20 C6 8C JSR FDC_WriteCmd A=CMD (no drv select)	<input checked="" type="checkbox"/>		
	8BA9 A9 23 LDA #&23	<input checked="" type="checkbox"/>		Drive Control Output Port
	8BAB 20 B0 8C JSR FDC_WriteParam A=Param	<input checked="" type="checkbox"/>		
	8BAE B9 CD 8B LDA .drvctloutport_table,Y	<input checked="" type="checkbox"/>		Y=Drive, get entry for drive
	8BB1 20 B0 8C JSR FDC_WriteParam A=Param	<input checked="" type="checkbox"/>		
.fdc_drive_not_ready	8BB4 20 BD 8B JSR FDC_DriveReady (Z=1=ready)	<input checked="" type="checkbox"/>		try again!
	8BB7 F0 FB BEQ .fdc_drive_not_ready	<input checked="" type="checkbox"/>		wait til ready
	8BB9 68 PLA	<input checked="" type="checkbox"/>		
	8BBA A8 TAY	<input checked="" type="checkbox"/>		
	8BBB 68 PLA	<input checked="" type="checkbox"/>		
	8BBC 60 RTS	<input checked="" type="checkbox"/>		
FDC_DriveReady (Z=1=ready)	8BBD A9 6C LDA #&6C	<input checked="" type="checkbox"/>		READ DRIVE STATUS
	8BBF 20 BD 8C JSR FDC_WriteCmd A=Cmd (ret. C=drv)	<input checked="" type="checkbox"/>		
	8BC2 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	<input checked="" type="checkbox"/>		
	8BC5 90 03 BCC .fdc_readdrvstatus_drv0	<input checked="" type="checkbox"/>		if drive 0
	8BC7 20 05 82 JSR .A>>4	<input checked="" type="checkbox"/>		
.fdc_readdrvstatus_drv0	8BCA 29 04 AND #&04	<input checked="" type="checkbox"/>		Bit2=Drive Ready
	8BCC 60 RTS	<input checked="" type="checkbox"/>		
.drvctloutport_table	8BCD 48 88 68 A8 H`h`	<input checked="" type="checkbox"/>		Drive 0
set_1074/75=&FFFF (AXY preserved)	8BD1 48 PHA	<input checked="" type="checkbox"/>		
	8BD2 A9 FF LDA #&FF	<input checked="" type="checkbox"/>		
	8BD4 8D 74 10 STA &1074	<input checked="" type="checkbox"/>		
	8BD7 8D 75 10 STA &1075	<input checked="" type="checkbox"/>		
	8BDA 68 PLA	<input checked="" type="checkbox"/>		
	8BDB 60 RTS	<input checked="" type="checkbox"/>		
TubeRoutine C=0 if executed	8BDC AD 80 10 LDA TubeOpCode	<input checked="" type="checkbox"/>		get op
	8BDF 48 PHA	<input checked="" type="checkbox"/>		see AUG pg.345
	8BE0 AD D6 10 LDA TubeTransferIfNotZero	<input checked="" type="checkbox"/>		
	8BE3 4C 02 8C JMP .tuberoutineinit'ed	<input checked="" type="checkbox"/>		
TubeRoutine_Init(A=op) C=0 if rw	8BE6 48 PHA	<input checked="" type="checkbox"/>		
Tube else Host				
	8BE7 8D 80 10 STA TubeOpCode	<input checked="" type="checkbox"/>		save op
	8BEA A5 BE LDA &BE	<input checked="" type="checkbox"/>		
	8BEC 8D 72 10 STA &1072	<input checked="" type="checkbox"/>		
	8BEF A5 BF LDA &BF	<input checked="" type="checkbox"/>		
	8BF1 8D 73 10 STA &1073	<input checked="" type="checkbox"/>		
	8BF4 AD 74 10 LDA &1074	<input checked="" type="checkbox"/>		
	8BF7 2D 75 10 AND &1075	<input checked="" type="checkbox"/>		=FF if load to Host
	8BFA 0D D7 10 ORA TubePresentIf0	<input checked="" type="checkbox"/>		
	8BFD 49 FF EOR #&FF	<input checked="" type="checkbox"/>		-> =0 if load to host

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Label	Code	Zero	New Instruction	Comment
	8BFF 8D D6 10 STA TubeTransferIfNotZero	✓		
.tuberoutineinit'ed	8C02 38 SEC	✓		
	8C03 F0 0A BEQ .notTUBEtransfer	✓		?10d6<>0
	8C05 A2 72 LDY #&72	✓		
	8C07 A0 10 LDY #&10	✓		TubeAddr=&1072
	8C09 68 PLA	✓		
	8C0A 48 PHA	✓		
	8C0B 20 06 04 JSR TubeCode(YX=addr,A=0:initrd,A=1:initwr,A=4:strex)	✓		
	8C0E 18 CLC	✓		
.notTUBEtransfer	8C0F 68 PLA	✓		
	8C10 60 RTS	✓		EXIT C=1 if ?10d6=0
LoadNMIRead@0E00_TubeInit (ex.Z=0)	8C11 A9 01 LDA #&01	✓		
	8C13 20 E6 8B JSR TubeRoutine_Init(A=op) C=0 if rw Tube else Host	✓		init write to Tube
LoadNMIRead@0E00	8C16 A9 01 LDA #&01	✓		
	8C18 20 AC 98 JSR BLOCK A CLAIM_NMI A=CODE No (0 to 6)	✓		
	8C1B A9 53 LDA #&53	✓		FDC cmd=READ DATA
	8C1D D0 0C BNE InitNMIvars(FDCCmd=A,DataPointer=&E00,Attempts=&A)	✓		always
LoadNMIWrite@0E00_TubeInit (ex.Z=0)	8C1F A9 00 LDA #&00	✓		
	8C21 20 E6 8B JSR TubeRoutine_Init(A=op) C=0 if rw Tube else Host	✓		init read from Tube
LoadNMIWrite@0E00	8C24 A9 00 LDA #&00	✓		
	8C26 20 AC 98 JSR BLOCK A CLAIM_NMI A=CODE No (0 to 6)	✓		
	8C29 A9 4B LDA #&4B	✓		FDC cmd=WRITE DATA
InitNMIvars(FDCCmd=A,DataPointer=&E00,Attempts=&A)	8C2B 85 A1 STA NMI_FDCcmd	✓		cmd
	8C2D A9 00 LDA #&00	✓		
	8C2F 85 A6 STA NMI_DataPointer	✓		
	8C31 A9 0E LDA #&0E	✓		
	8C33 85 A7 STA NMI_DataPointer+1	✓		
SetRW_Attempts=&A	8C35 A9 0A LDA #&0A	✓		
	8C37 85 A2 STA NMI_RW_attempts	✓		
	8C39 60 RTS	✓		
FDCIntRequest	8C3A 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	✓		Called by NMI routine
	8C3D D0 20 BNE .fdcintrequest_resultnotzero	✓		Result<>0 = error
	8C3F 20 35 8C JSR SetRW_Attempts=&A	✓		?A2=&A
	8C42 E6 BA INC Track	✓		trk=trk+1
	8C44 A9 00 LDA #&00	✓		
	8C46 85 BB STA Sector	✓		sec=0
	8C48 AD 7C 10 LDA &107C	✓		secs read last trk
	8C4B 18 CLC	✓		
	8C4C 6D 73 10 ADC &1073	✓		wd 1073+=byte 107c
	8C4F 8D 73 10 STA &1073	✓		
	8C52 90 24 BCC FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	✓		
	8C54 EE 74 10 INC &1074	✓		
	8C57 D0 1F BNE FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	✓		
	8C59 EE 75 10 INC &1075	✓		
	8C5C 4C 78 8C JMP FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	✓		
.fdcintrequest_resultnotzero	8C5F C6 A2 DEC NMI_RW_attempts	✓		dec RW_attempts
	8C61 10 03 BPL .retryFDCoperation	✓		If >0 try again
	8C63 4C 21 8B JMP FDC_ERROR(A=FDC Result)	✓		
.retryFDCoperation	8C66 A0 04 LDY #&04	✓		use copy of NMI vars

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Label	Code	Zero	New Instruction	Comment
.restoreNMIVars_loop	8C68 B9 40 10 LDA CopyOfNMIVars,Y	✓		
	8C6B 99 A3 00 STA NMI_Counter1,Y	✓		
	8C6E 88 DEY	✓		
	8C6F 10 F7 BPL .restoreNMIVars_loop	✓		
	8C71 8A TXA	✓		
	8C72 48 PHA	✓		
	8C73 20 DC 8B JSR TubeRoutine C=0 if executed	✓		Tell Tube retrying
	8C76 68 PLA	✓		
	8C77 AA TAX	✓		
FDC_SetupRW ?A1=cmd ?BA=trk ?BB=sec A4/A5secsleft	8C78 A5 A5 LDA NMI_Counter3	✓		nothing to do!
	8C7A F0 40 BEQ .fdc_writeparam_exit	✓		
SaveNMIVars	8C7C A0 04 LDY #04	✓		Save NMI vars
.saveNmivars_loop	8C7E B9 A3 00 LDA NMI_Counter1,Y	✓		
	8C81 99 40 10 STA CopyOfNMIVars,Y	✓		
	8C84 88 DEY	✓		
	8C85 10 F7 BPL .saveNmivars_loop	✓		
	8C87 A5 A1 LDA NMI_FDCcmd	✓		?A1=cmd
	8C89 20 BD 8C JSR FDC_WriteCmd A=Cmd (ret. C=drv)	✓		
	8C8C A5 BA LDA Track	✓		track?
	8C8E 20 B0 8C JSR FDC_WriteParam A=Param	✓		
	8C91 A5 BB LDA Sector	✓		sector?
	8C93 20 B0 8C JSR FDC_WriteParam A=Param	✓		
	8C96 A9 0A LDA #0A	✓		10 sectors/track?
	8C98 38 SEC	✓		
	8C99 E5 BB SBC Sector	✓		10-first sector
	8C9B 8D 7C 10 STA &107C	✓		=rd.secs.on track
	8C9E A5 A5 LDA NMI_Counter3	✓		a4/a5 total no.of secs?
	8CA0 C9 01 CMP #01	✓		
	8CA2 D0 07 BNE secs_a5<>1	✓		if a5<>#1
	8CA4 A5 A4 LDA NMI_Counter2	✓		no.of sec left???
	8CA6 CD 7C 10 CMP &107C	✓		
	8CA9 90 03 BCC readlessthansecsontrk	✓		a4=secsleft<secs on track
secs_a5<>1	8CAB AD 7C 10 LDA &107C	✓		
readlessthansecsontrk	8CAE 09 20 ORA #020	✓		A=secsize=256/noofsecs
FDC_WriteParam A=Param	8CB0 48 PHA	✓		
.fdc_writeparam_wait	8CB1 AD 80 FE LDA FDC_WRCMD_RDSTATUS	✓		
	8CB4 29 20 AND #020	✓		1 = parameter reg full
	8CB6 D0 F9 BNE .fdc_writeparam_wait	✓		wait 'til empty
	8CB8 68 PLA	✓		
	8CB9 8D 81 FE STA FDC_WRPARA_RDRESULT	✓		
.fdc_writeparam_exit	8CBC 60 RTS	✓		
FDC_WriteCmd A=Cmd (ret. C=drv)	8CBD 48 PHA	✓		A=DRIVE0 + CMD
	8CBE A5 CF LDA CurrentDrv	✓		
	8CC0 6A ROR	✓		bit 0 = drive 0 or 1
	8CC1 68 PLA	✓		
	8CC2 90 02 BCC FDC_WriteCmd A=CMD (no drv select)	✓		C=drive (S=01XXXXXX)
	8CC4 49 C0 EOR #0C0	✓		S=10XXXXXX
FDC_WriteCmd A=CMD (no drv select)	8CC6 2C 80 FE BIT FDC_WRCMD_RDSTATUS	✓		
	8CC9 30 FB BMI FDC_WriteCmd A=CMD (no drv select)	✓		while FDC command busy

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Label	Code	Zero	New Instruction	Comment
	8CCB 8D 80 FE STA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		
	8CCE 60 RTS	<input checked="" type="checkbox"/>		
FDC_ReadResult (ret. A=RESULT,C preserved)	8CCF 20 D6 8C JSR FDC_WaitIfBusy (AXY preserved)	<input checked="" type="checkbox"/>		
	8CD2 AD 81 FE LDA FDC_WRPARA_RDRESULT	<input checked="" type="checkbox"/>		
	8CD5 60 RTS	<input checked="" type="checkbox"/>		
FDC_WaitIfBusy (AXY preserved)	8CD6 58 CLI	<input checked="" type="checkbox"/>		allow interrupts
.fdc_waitifbusyloop	8CD7 2C 80 FE BIT FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		command busy?
	8CDA 30 FB BMI .fdc_waitifbusyloop	<input checked="" type="checkbox"/>		
	8CDC 2C 80 FE BIT FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		command busy?
	8CDF 30 F6 BMI .fdc_waitifbusyloop	<input checked="" type="checkbox"/>		
	8CE1 60 RTS	<input checked="" type="checkbox"/>		
.fdccmdtable0	8CE2 35 0D 02 08 C0 EA 5...Ãê	<input checked="" type="checkbox"/>		Initialise
.fdccmdtable6	8CE8 35 0D 03 08 C0 EA 5...Ãê	<input checked="" type="checkbox"/>		Initialise
.fdccmdtableC	8CEE 35 0D 03 19 C4 EA 5...Ãê	<input checked="" type="checkbox"/>		Initialise
.fdccmdtable12	8CF4 35 0D 0C 0A C8 EA 5...Êê	<input checked="" type="checkbox"/>		Initialise
.fdccmdtable18	8CFA 35 10 FF FF 00 EA 5.ÿÿ.ê	<input checked="" type="checkbox"/>		Load surface 0 bad tracks
.fdccmdtable1E	8D00 35 18 FF FF 00 EA 5.ÿÿ.ê	<input checked="" type="checkbox"/>		Load surface 1 bad tracks
.fdccmdtable24	8D06 3A 17 C1 EA :.Ãê	<input checked="" type="checkbox"/>		Write mode spec.reg
.fdccmdtable28	8D0A 69 00 EA i.ê	<input checked="" type="checkbox"/>		seek track 0
.fdccmdtable2B	8D0D 5F 00 08 22 EA _.."ê	<input checked="" type="checkbox"/>		verify data & deleted data
NMI0_WRITE	8D12 48 PHA	<input checked="" type="checkbox"/>		/
	8D13 98 TYA	<input checked="" type="checkbox"/>		/
	8D14 48 PHA	<input checked="" type="checkbox"/>		/
	8D15 AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8D18 29 04 AND #&04	<input checked="" type="checkbox"/>		/1=non DMA data request
	8D1A F0 48 BEQ .nmi0/1_notNonDMArequest	<input checked="" type="checkbox"/>		/
	8D1C AC D6 10 LDY TubeTransferIfNotZero	<input checked="" type="checkbox"/>		/
	8D1F D0 08 BNE .nmi0_WRITE_fromTube	<input checked="" type="checkbox"/>		/
	8D21 B1 A6 LDA (NMI_DataPointer),Y	<input checked="" type="checkbox"/>		/
	8D23 8D 84 FE STA FDC_DATA	<input checked="" type="checkbox"/>		/
	8D26 4C 38 0D JMP &0D38	<input checked="" type="checkbox"/>		JMP inc_A6_Dec_A3
.nmi0_WRITE_fromTube	8D29 AD E5 FE LDA TUBE_R3_DATA	<input checked="" type="checkbox"/>		Tube
	8D2C 8D 84 FE STA FDC_DATA	<input checked="" type="checkbox"/>		/
	8D2F 4C 3E 0D JMP &0D3E	<input checked="" type="checkbox"/>		JMP Dec_A3
NMI1_READ	8D32 48 PHA	<input checked="" type="checkbox"/>		/
	8D33 98 TYA	<input checked="" type="checkbox"/>		/
	8D34 48 PHA	<input checked="" type="checkbox"/>		/
	8D35 AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8D38 29 04 AND #&04	<input checked="" type="checkbox"/>		1=Non DMA data request
	8D3A F0 28 BEQ .nmi0/1_notNonDMArequest	<input checked="" type="checkbox"/>		/
	8D3C AD 84 FE LDA FDC_DATA	<input checked="" type="checkbox"/>		/
	8D3F A4 A5 LDY NMI_Counter3	<input checked="" type="checkbox"/>		/
	8D41 F0 17 BEQ .nmi_retfromint	<input checked="" type="checkbox"/>		/
	8D43 AC D6 10 LDY TubeTransferIfNotZero	<input checked="" type="checkbox"/>		/
	8D46 D0 16 BNE .nmi1_read_toTube	<input checked="" type="checkbox"/>		/
	8D48 91 A6 STA (NMI_DataPointer),Y	<input checked="" type="checkbox"/>		/
.inc_A6_dec_A3 (0D38/0D18)	8D4A E6 A6 INC NMI_DataPointer	<input checked="" type="checkbox"/>		/
	8D4C D0 02 BNE .dec_A3 (0D3E/0D1E)	<input checked="" type="checkbox"/>		/
	8D4E E6 A7 INC NMI_DataPointer+1	<input checked="" type="checkbox"/>		/

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Label	Code	Zero	New Instruction	Comment
.dec_A3 (0D3E/0D1E)	8D50 C6 A3 DEC NMI_Counter1	<input checked="" type="checkbox"/>		/
	8D52 D0 06 BNE .nmi_retfromint	<input checked="" type="checkbox"/>		/
	8D54 C6 A4 DEC NMI_Counter2	<input checked="" type="checkbox"/>		/
	8D56 D0 02 BNE .nmi_retfromint	<input checked="" type="checkbox"/>		/
.nmi_retfromint	8D58 C6 A5 DEC NMI_Counter3	<input checked="" type="checkbox"/>		/
	8D5A 68 PLA	<input checked="" type="checkbox"/>		/
	8D5B A8 TAY	<input checked="" type="checkbox"/>		/
	8D5C 68 PLA	<input checked="" type="checkbox"/>		/
NMI2_ExitInterrupt	8D5D 40 RTI	<input checked="" type="checkbox"/>		/
.nmi1_read_toTube	8D5E 8D E5 FE STA TUBE_R3_DATA	<input checked="" type="checkbox"/>		/TUBE
	8D61 4C 1E 0D JMP &0D1E	<input checked="" type="checkbox"/>		/JMP dec_A3
.nmi0/1_notNonDMArequest	8D64 AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8D67 29 08 AND #&08	<input checked="" type="checkbox"/>		/1 = Interrupt request
	8D69 D0 06 BNE .FDCInterruptRequest	<input checked="" type="checkbox"/>		/
	8D6B 68 PLA	<input checked="" type="checkbox"/>		/
	8D6C A8 TAY	<input checked="" type="checkbox"/>		/
	8D6D 68 PLA	<input checked="" type="checkbox"/>		/
	8D6E 6C 00 02 JMP (USERV)	<input checked="" type="checkbox"/>		/USERV
	8D71 A5 F4 LDA PagedRomSelector_RAMCopy	<input checked="" type="checkbox"/>		/Select DFS ROM
.FDCInterruptRequest	8D73 48 PHA	<input checked="" type="checkbox"/>		/
	8D74 A9 00 LDA #&00	<input checked="" type="checkbox"/>		/op@D63/D43=DFS.rom.no
	8D76 85 F4 STA PagedRomSelector_RAMCopy	<input checked="" type="checkbox"/>		/
	8D78 8D 30 FE STA PagedRomSelector	<input checked="" type="checkbox"/>		/
	8D7B 20 3A 8C JSR FDCIntRequest	<input checked="" type="checkbox"/>		/
	8D7E 68 PLA	<input checked="" type="checkbox"/>		/Select prev. sel. ROM
	8D7F 85 F4 STA PagedRomSelector_RAMCopy	<input checked="" type="checkbox"/>		/
	8D81 8D 30 FE STA PagedRomSelector	<input checked="" type="checkbox"/>		/
	8D84 38 SEC	<input checked="" type="checkbox"/>		/
	8D85 B0 D3 BCS .nmi_retfromint	<input checked="" type="checkbox"/>		/always; END NMI0/1
NMI6_READ_toMem	8D87 48 PHA	<input checked="" type="checkbox"/>		/save A & Y
	8D88 98 TYA	<input checked="" type="checkbox"/>		/
	8D89 48 PHA	<input checked="" type="checkbox"/>		/
	8D8A AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8D8D 29 04 AND #&04	<input checked="" type="checkbox"/>		/1 = non DMA data request
	8D8F F0 0D BEQ &8D9E	<input checked="" type="checkbox"/>		/
	8D91 AD 84 FE LDA FDC_DATA	<input checked="" type="checkbox"/>		/get data and store
	8D94 A0 00 LDY #&00	<input checked="" type="checkbox"/>		/at word A6
	8D96 91 A6 STA (NMI_DataPointer),Y	<input checked="" type="checkbox"/>		/
	8D98 E6 A6 INC NMI_DataPointer	<input checked="" type="checkbox"/>		/
	8D9A D0 02 BNE &8D9E	<input checked="" type="checkbox"/>		/
	8D9C E6 A7 INC NMI_DataPointer+1	<input checked="" type="checkbox"/>		/inc word A6
	8D9E 68 PLA	<input checked="" type="checkbox"/>		/
	8D9F A8 TAY	<input checked="" type="checkbox"/>		/
	8DA0 68 PLA	<input checked="" type="checkbox"/>		/
	8DA1 40 RTI	<input checked="" type="checkbox"/>		/
	8DA2 48 PHA	<input checked="" type="checkbox"/>		/
	8DA3 98 TYA	<input checked="" type="checkbox"/>		/
NMI4_WRITE_fromMem	8DA4 48 PHA	<input checked="" type="checkbox"/>		/
	8DA5 AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8DA8 29 04 AND #&04	<input checked="" type="checkbox"/>		/1 = non DMA data request
	8DAA F0 0D BEQ &8DB9	<input checked="" type="checkbox"/>		/
	8DAC A0 00 LDY #&00	<input checked="" type="checkbox"/>		/
	8DAE B1 A6 LDA (NMI_DataPointer),Y	<input checked="" type="checkbox"/>		/Get data from word A6
	8DB0 8D 84 FE STA FDC_DATA	<input checked="" type="checkbox"/>		/and send to FDC
	8DB3 E6 A6 INC NMI_DataPointer	<input checked="" type="checkbox"/>		/
	8DB5 D0 02 BNE &8DB9	<input checked="" type="checkbox"/>		/
	8DB7 E6 A7 INC NMI_DataPointer+1	<input checked="" type="checkbox"/>		/inc word A6
	8DB9 68 PLA	<input checked="" type="checkbox"/>		/
	8DBA A8 TAY	<input checked="" type="checkbox"/>		/
	8DBB 68 PLA	<input checked="" type="checkbox"/>		/
	8DBC 40 RTI	<input checked="" type="checkbox"/>		/
NMI5_READ_toTube	8DBD 48 PHA	<input checked="" type="checkbox"/>		/
	8DBE AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8DC1 29 04 AND #&04	<input checked="" type="checkbox"/>		/1 = non DMA data request
	8DC3 F0 06 BEQ &8DCB	<input checked="" type="checkbox"/>		/
	8DC5 AD 84 FE LDA FDC_DATA	<input checked="" type="checkbox"/>		/
	8DC8 8D E5 FE STA TUBE_R3_DATA	<input checked="" type="checkbox"/>		/TUBE
	8DCB 68 PLA	<input checked="" type="checkbox"/>		/
	8DCC 40 RTI	<input checked="" type="checkbox"/>		/
NMI3_WRITE_fromTube	8DCD 48 PHA	<input checked="" type="checkbox"/>		/
	8DCE AD 80 FE LDA FDC_WRCMD_RDSTATUS	<input checked="" type="checkbox"/>		/
	8DD1 29 04 AND #&04	<input checked="" type="checkbox"/>		/1 = non DMA data request
	8DD3 F0 06 BEQ &8DDB	<input checked="" type="checkbox"/>		/
	8DD5 AD E5 FE LDA TUBE_R3_DATA	<input checked="" type="checkbox"/>		/TUBE
	8DD8 8D 84 FE STA FDC_DATA	<input checked="" type="checkbox"/>		/
	8DDB 68 PLA	<input checked="" type="checkbox"/>		/
	8DDC 40 RTI	<input checked="" type="checkbox"/>		/END NMI ROUTINES
.fscv7_hndlrange	8DDD A2 11 LDX #&11	<input type="checkbox"/>		lowest hndl issued
	8DDF A0 15 LDY #&15	<input type="checkbox"/>		highest hndl poss.
.8del-rts	8DE1 60 RTS	<input type="checkbox"/>		
.fscv6_shutdownfilesys	8DE2 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
CloseSPOOL&EXECfiles	8DE5 A9 77 LDA #&77	<input type="checkbox"/>		
	8DE7 4C F4 FF JMP OSBYTE	<input type="checkbox"/>		
.closelp1	8DEA 20 E2 8D JSR .fscv6_shutdownfilesys	<input type="checkbox"/>		
	8DED A9 00 LDA #&00	<input type="checkbox"/>		
.closelp2	8DEF 18 CLC	<input type="checkbox"/>		
	8DF0 69 20 ADC #&20	<input type="checkbox"/>		
	8DF2 F0 ED BEQ .8del-rts	<input type="checkbox"/>		
	8DF4 A8 TAY	<input type="checkbox"/>		Y=&20 to &A0 step &20
	8DF5 20 05 8E JSR .updatecat&filetomedia Y=inthndl	<input type="checkbox"/>		
	8DF8 D0 F5 BNE .closelp2	<input type="checkbox"/>		
.findv0_closefile Y=hndl	8DFA 98 TYA	<input type="checkbox"/>		0=all files
	8DFB F0 ED BEQ .closelp1	<input type="checkbox"/>		
	8DFD 20 7B 90 JSR .conv_Yhndl_intch ex.Y=intch,exit.C=0 if ok	<input type="checkbox"/>		
	8E00 90 03 BCC .updatecat&filetomedia Y=inthndl	<input type="checkbox"/>		
	8E02 4C AD 90 JMP .errCHANNEL	<input type="checkbox"/>		
.updatecat&filetomedia Y=inthndl	8E05 48 PHA	<input type="checkbox"/>		
	8E06 20 51 90 JSR IsHndlinUse(Y=intch) C=0 if yes	<input type="checkbox"/>		saves X in &10C6

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8E09 B0 45 BCS .hndlnotinuse	<input type="checkbox"/>		hndl not in use
	8E0B B9 1B 11 LDA &111B,Y	<input type="checkbox"/>		chl=&113b
	8E0E 49 FF EOR #&FF	<input type="checkbox"/>		
	8E10 2D C0 10 AND &10C0	<input type="checkbox"/>		
	8E13 8D C0 10 STA &10C0	<input type="checkbox"/>		clear channel "bit"
	8E16 B9 17 11 LDA &1117,Y	<input type="checkbox"/>		chl=&1137
	8E19 29 60 AND #&60	<input type="checkbox"/>		
	8E1B F0 33 BEQ .hndlnotinuse	<input type="checkbox"/>		
	8E1D 20 55 8E JSR .setupsavetomedia2 Y=intch,set drv	<input type="checkbox"/>		loads cat
	8E20 B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	8E23 29 20 AND #&20	<input type="checkbox"/>		
	8E25 F0 26 BEQ &8E4D	<input type="checkbox"/>		
	8E27 AE C4 10 LDX &10C4	<input type="checkbox"/>		
	8E2A B9 14 11 LDA &1114,Y	<input type="checkbox"/>		
	8E2D 9D 0C 0F STA &0F0C,X	<input type="checkbox"/>		
	8E30 B9 15 11 LDA &1115,Y	<input type="checkbox"/>		
	8E33 9D 0D 0F STA &0F0D,X	<input type="checkbox"/>		
	8E36 B9 16 11 LDA &1116,Y	<input type="checkbox"/>		
	8E39 20 0B 82 JSR .A<<4	<input type="checkbox"/>		
	8E3C 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	8E3F 29 30 AND #&30	<input type="checkbox"/>		
	8E41 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	8E44 9D 0E 0F STA &0F0E,X	<input type="checkbox"/>		
	8E47 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>		save cat
	8E4A AC C2 10 LDY &10C2	<input type="checkbox"/>		
	8E4D 20 4B 91 JSR .filetomediaY	<input type="checkbox"/>		
.hndlnotinuse	8E50 AE C6 10 LDX &10C6	<input type="checkbox"/>		
	8E53 68 PLA	<input type="checkbox"/>		
	8E54 60 RTS	<input type="checkbox"/>		
.setupsavetomedia2 Y=intch,set drv	8E55 20 83 8E JSR .setfiledrive Y=hndl	<input type="checkbox"/>		
.setupsavetomedia Y=intch, exit	8E58 A2 07 LDX #&07	<input type="checkbox"/>		
?10C4=catoffset				
.setosfilevars_loop	8E5A B9 0C 11 LDA &110C,Y	<input type="checkbox"/>		?Y=intchnl
	8E5D 95 C6 STA &C6,X	<input type="checkbox"/>		copy filename to zp
	8E5F 88 DEY	<input type="checkbox"/>		
	8E60 88 DEY	<input type="checkbox"/>		
	8E61 CA DEX	<input type="checkbox"/>		
	8E62 D0 F6 BNE .setosfilevars_loop	<input type="checkbox"/>		
	8E64 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		loads cat
	8E67 90 27 BCC .setupsavetomedia_diskchanged	<input type="checkbox"/>		not found
	8E69 8C C4 10 STY &10C4	<input type="checkbox"/>		=FILE OFFSET
	8E6C B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		check cat
	8E6F BE 0F 0F LDX &0F0F,Y	<input type="checkbox"/>		
	8E72 AC C2 10 LDY &10C2	<input type="checkbox"/>		
	8E75 59 0D 11 EOR &110D,Y	<input type="checkbox"/>		?Y=inthndl
	8E78 29 03 AND #&03	<input type="checkbox"/>		
	8E7A D0 14 BNE .setupsavetomedia_diskchanged	<input type="checkbox"/>		
	8E7C 8A TXA	<input type="checkbox"/>		
	8E7D D9 0F 11 CMP &110F,Y	<input type="checkbox"/>		?Y=inthndl
	8E80 D0 0E BNE .setupsavetomedia_diskchanged	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8E82 60 RTS	<input type="checkbox"/>		
.setfiledrive Y=hndl	8E83 B9 0E 11 LDA &110E,Y	<input type="checkbox"/>		?Y=inthndl
	8E86 29 7F AND #&7F	<input type="checkbox"/>		=DIR
	8E88 85 CE STA DirectoryParam	<input type="checkbox"/>		
	8E8A B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	8E8D 4C 7E 87 JMP SetCurrentDrive	<input type="checkbox"/>		
.setupsavetomedia_diskchanged	8E90 4C AF 81 JMP .errDISKCHANGED	<input type="checkbox"/>		
FINDV_ENTRY	8E93 C9 00 CMP #&00	<input type="checkbox"/>		
	8E95 D0 06 BNE .findv<>0_openfile	<input type="checkbox"/>		
	8E97 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	8E9A 4C FA 8D JMP .findv0_closefile Y=hndl	<input type="checkbox"/>		Close file #Y
.findv<>0_openfile	8E9D 20 11 84 JSR rAXY2_dontpullonreturn	<input type="checkbox"/>		Open file XY->filename
	8EA0 86 BC STX TextPointer_dfs	<input type="checkbox"/>		
	8EA2 84 BD STY &BD	<input type="checkbox"/>		
	8EA4 85 B4 STA &B4	<input type="checkbox"/>		
	8EA6 24 B4 BIT &B4	<input type="checkbox"/>		
	8EA8 08 PHP	<input type="checkbox"/>		
	8EA9 20 06 81 JSR read_(a)fsp@(&BC) (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	8EAC 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		loads cat
	8EAF B0 1A BCS .findv_filefound	<input type="checkbox"/>		
	8EB1 28 PLP	<input type="checkbox"/>		
	8EB2 50 03 BVC .openfileforoutput	<input type="checkbox"/>		open file for output
	8EB4 A9 00 LDA #&00	<input type="checkbox"/>		
	8EB6 60 RTS	<input type="checkbox"/>		
.openfileforoutput	8EB7 08 PHP	<input type="checkbox"/>		
	8EB8 A9 00 LDA #&00	<input type="checkbox"/>		clear BE,1074...
	8EBA A2 07 LDX #&07	<input type="checkbox"/>		
	8EBC 95 BE STA &BE,X	<input type="checkbox"/>		
	8EBE 9D 74 10 STA &1074,X	<input type="checkbox"/>		??10ok
	8EC1 CA DEX	<input type="checkbox"/>		
	8EC2 10 F8 BPL &8EBC	<input type="checkbox"/>		
	8EC4 A9 40 LDA #&40	<input type="checkbox"/>		
	8EC6 85 C5 STA &C5	<input type="checkbox"/>		already checked
	8EC8 20 61 89 JSR .createfile fsp@(&BC)	<input type="checkbox"/>		? but loads cat
.findv_filefound	8ECB 28 PLP	<input type="checkbox"/>		
	8ECC 08 PHP	<input type="checkbox"/>		
	8ECD 70 03 BVS .findv_openforread	<input type="checkbox"/>		
	8ECF 20 3C 98 JSR CheckFileNotLocked	<input type="checkbox"/>		
.findv_openforread	8ED2 20 9E 8F JSR .8f9e	<input type="checkbox"/>		
	8ED5 90 0E BCC &8EE5	<input type="checkbox"/>		
	8ED7 B9 0C 11 LDA &110C,Y	<input type="checkbox"/>		?Y=intchnl
	8EDA 10 26 BPL .errFILEOPEN	<input type="checkbox"/>		
	8EDC 24 B4 BIT &B4	<input type="checkbox"/>		
	8EDE 30 22 BMI .errFILEOPEN	<input type="checkbox"/>		
	8EE0 20 99 8F JSR .8f99	<input type="checkbox"/>		
	8EE3 B0 F2 BCS &8ED7	<input type="checkbox"/>		
	8EE5 AC C2 10 LDY &10C2	<input type="checkbox"/>		
	8EE8 D0 21 BNE .8f0b Y=int.chnl	<input type="checkbox"/>		
.errTOOMANYFILESOPEN	8EEA 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8EED C0 54 6F 6F 20 6D 61 6E ÄToo man	<input type="checkbox"/>		
	8EF5 79 20 66 69 6C 65 73 20 y files	<input type="checkbox"/>		
	8EFD 6F 70 65 6E 00 open.	<input type="checkbox"/>		
.errFILEOPEN	8F02 20 2B 80 JSR .errFILE	<input type="checkbox"/>		
	8F05 C2 6F 70 65 6E 00 Äopen.	<input type="checkbox"/>		
.8f0b Y=int.chnl	8F0B A9 08 LDA #&08	<input type="checkbox"/>		
	8F0D 8D C5 10 STA &10C5	<input type="checkbox"/>		
	8F10 BD 08 0E LDA &0E08,X	<input type="checkbox"/>		
	8F13 99 00 11 STA &1100,Y	<input type="checkbox"/>		?Y=intchnl
	8F16 C8 INY	<input type="checkbox"/>		
	8F17 BD 08 0F LDA &0F08,X	<input type="checkbox"/>		
	8F1A 99 00 11 STA &1100,Y	<input type="checkbox"/>		?Y=intchnl
	8F1D C8 INY	<input type="checkbox"/>		
	8F1E E8 INX	<input type="checkbox"/>		
	8F1F CE C5 10 DEC &10C5	<input type="checkbox"/>		
	8F22 D0 EC BNE &8F10	<input type="checkbox"/>		
	8F24 A2 10 LDX #&10	<input type="checkbox"/>		
	8F26 A9 00 LDA #&00	<input type="checkbox"/>		
	8F28 99 00 11 STA &1100,Y	<input type="checkbox"/>		?Y=intchnl
	8F2B C8 INY	<input type="checkbox"/>		
	8F2C CA DEX	<input type="checkbox"/>		
	8F2D D0 F9 BNE &8F28	<input type="checkbox"/>		
	8F2F AD C2 10 LDA &10C2	<input type="checkbox"/>		
	8F32 A8 TAY	<input type="checkbox"/>		
	8F33 20 04 82 JSR .A>>5	<input type="checkbox"/>		
	8F36 69 11 ADC #&11	<input type="checkbox"/>		
	8F38 99 13 11 STA &1113,Y	<input type="checkbox"/>		Buffer page
	8F3B AD C1 10 LDA &10C1	<input type="checkbox"/>		
	8F3E 99 1B 11 STA &111B,Y	<input type="checkbox"/>		
	8F41 0D C0 10 ORA &10C0	<input type="checkbox"/>		
	8F44 8D C0 10 STA &10C0	<input type="checkbox"/>		
	8F47 B9 09 11 LDA &1109,Y	<input type="checkbox"/>		?Y=intchnl
	8F4A 69 FF ADC #&FF	<input type="checkbox"/>		
	8F4C B9 0B 11 LDA &110B,Y	<input type="checkbox"/>		?Y=intchnl
	8F4F 69 00 ADC #&00	<input type="checkbox"/>		
	8F51 99 19 11 STA &1119,Y	<input type="checkbox"/>		
	8F54 B9 0D 11 LDA &110D,Y	<input type="checkbox"/>		?Y=intchnl
	8F57 09 0F ORA #&0F	<input type="checkbox"/>		
	8F59 69 00 ADC #&00	<input type="checkbox"/>		
	8F5B 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	8F5E 99 1A 11 STA &111A,Y	<input type="checkbox"/>		
	8F61 28 PLP	<input type="checkbox"/>		
	8F62 50 2E BVC &8F92	<input type="checkbox"/>		
	8F64 30 08 BMI &8F6E	<input type="checkbox"/>		
	8F66 A9 80 LDA #&80	<input type="checkbox"/>		
	8F68 19 0C 11 ORA &110C,Y	<input type="checkbox"/>		?Y=intchnl
	8F6B 99 0C 11 STA &110C,Y	<input type="checkbox"/>		?Y=intchnl
	8F6E B9 09 11 LDA &1109,Y	<input type="checkbox"/>		?Y=intchnl
	8F71 99 14 11 STA &1114,Y	<input type="checkbox"/>		?Y=intchnl

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8F74 B9 0B 11 LDA &110B,Y	<input type="checkbox"/>		?Y=intchn1
	8F77 99 15 11 STA &1115,Y	<input type="checkbox"/>		?Y=intchn1
	8F7A B9 0D 11 LDA &110D,Y	<input type="checkbox"/>		?Y=intchn1
	8F7D 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	8F80 99 16 11 STA &1116,Y	<input type="checkbox"/>		
	8F83 A5 CF LDA CurrentDrv	<input type="checkbox"/>		
	8F85 19 17 11 ORA &1117,Y	<input type="checkbox"/>		
	8F88 99 17 11 STA &1117,Y	<input type="checkbox"/>		
	8F8B 98 TYA	<input type="checkbox"/>		
	8F8C 20 04 82 JSR .A>>5	<input type="checkbox"/>		
	8F8F 09 10 ORA #&10	<input type="checkbox"/>		
	8F91 60 RTS	<input type="checkbox"/>		
	8F92 A9 20 LDA #&20	<input type="checkbox"/>		
	8F94 99 17 11 STA &1117,Y	<input type="checkbox"/>		
	8F97 D0 EA BNE &8F83	<input type="checkbox"/>		
.8f99	8F99 8A TXA	<input type="checkbox"/>		
	8F9A 48 PHA	<input type="checkbox"/>		
	8F9B 4C DD 8F JMP .8fdd	<input type="checkbox"/>		
.8f9e	8F9E A9 00 LDA #&00	<input type="checkbox"/>		
	8FA0 8D C2 10 STA &10C2	<input type="checkbox"/>		
	8FA3 A9 08 LDA #&08	<input type="checkbox"/>		
	8FA5 85 B5 STA &B5	<input type="checkbox"/>		
	8FA7 98 TYA	<input type="checkbox"/>		
	8FA8 AA TAX	<input type="checkbox"/>		
	8FA9 A0 A0 LDY #&A0	<input type="checkbox"/>		ch5
.8fabLOOP	8FAB 84 B3 STY &B3	<input type="checkbox"/>		
	8FAD 8A TXA	<input type="checkbox"/>		
	8FAE 48 PHA	<input type="checkbox"/>		
	8FAF A9 08 LDA #&08	<input type="checkbox"/>		
	8FB1 85 B2 STA &B2	<input type="checkbox"/>		
	8FB3 A5 B5 LDA &B5	<input type="checkbox"/>		
	8FB5 2C C0 10 BIT &10C0	<input type="checkbox"/>		
	8FB8 F0 1D BEQ &8FD7	<input type="checkbox"/>		
	8FBA B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	8FBD 45 CF EOR CurrentDrv	<input type="checkbox"/>		
	8FBF 29 03 AND #&03	<input type="checkbox"/>		
	8FC1 D0 1A BNE .8fdd	<input type="checkbox"/>		
	8FC3 BD 08 0E LDA &0E08,X	<input type="checkbox"/>		
	8FC6 59 00 11 EOR &1100,Y	<input type="checkbox"/>		?Y=intchn1
	8FC9 29 7F AND #&7F	<input type="checkbox"/>		
	8FCB D0 10 BNE .8fdd	<input type="checkbox"/>		
	8FCD E8 INX	<input type="checkbox"/>		
	8FCE C8 INY	<input type="checkbox"/>		
	8FCF C8 INY	<input type="checkbox"/>		
	8FD0 C6 B2 DEC &B2	<input type="checkbox"/>		
	8FD2 D0 EF BNE &8FC3	<input type="checkbox"/>		
	8FD4 38 SEC	<input type="checkbox"/>		
	8FD5 B0 10 BCS &8FE7	<input type="checkbox"/>		
	8FD7 8C C2 10 STY &10C2	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	8FDA 8D C1 10 STA &10C1	<input type="checkbox"/>		
.8fdd	8FDD 38 SEC	<input type="checkbox"/>		
	8FDE A5 B3 LDA &B3	<input type="checkbox"/>		
	8FE0 E9 20 SBC #&20	<input type="checkbox"/>		
	8FE2 85 B3 STA &B3	<input type="checkbox"/>		
	8FE4 06 B5 ASL &B5	<input type="checkbox"/>		
	8FE6 18 CLC	<input type="checkbox"/>		
	8FE7 68 PLA	<input type="checkbox"/>		
	8FE8 AA TAX	<input type="checkbox"/>		
	8FE9 A4 B3 LDY &B3	<input type="checkbox"/>		
	8FEB A5 B5 LDA &B5	<input type="checkbox"/>		
	8FED B0 02 BCS &8FF1	<input type="checkbox"/>		
	8FEF D0 BA BNE .8fabLOOP	<input type="checkbox"/>		
	8FF1 60 RTS	<input type="checkbox"/>		
.argsv_allfilestomedia2	8FF2 AD C0 10 LDA &10C0	<input type="checkbox"/>		
	8FF5 48 PHA	<input type="checkbox"/>		
	8FF6 20 ED 8D JSR &8DED	<input type="checkbox"/>		
	8FF9 F0 07 BEQ &9002	<input type="checkbox"/>		
.argsv_thisfiletomedial	8FFB AD C0 10 LDA &10C0	<input type="checkbox"/>		
	8FFE 48 PHA	<input type="checkbox"/>		
	8FFF 20 FA 8D JSR .findv0_closefile Y=hndl	<input type="checkbox"/>		
	9002 68 PLA	<input type="checkbox"/>		
	9003 8D C0 10 STA &10C0	<input type="checkbox"/>		
	9006 60 RTS	<input type="checkbox"/>		end
ARGSV_ENTIRY X=zp ctl blk	9007 C0 00 CPY #&00	<input type="checkbox"/>		Y=file hndl
	9009 F0 11 BEQ .argsv_Y=0	<input type="checkbox"/>		
	900B 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	900E C9 FF CMP #&FF	<input type="checkbox"/>		update all files to media
	9010 F0 E9 BEQ .argsv_thisfiletomedial	<input type="checkbox"/>		
	9012 C9 03 CMP #&03	<input type="checkbox"/>		
	9014 B0 17 BCS .argsv_exit	<input type="checkbox"/>		>=3
	9016 4A LSR	<input type="checkbox"/>		
	9017 90 15 BCC .argsv_rdtypeptr_or_filelen	<input type="checkbox"/>		
	9019 4C A7 92 JMP .argsv_WriteSeqPointer	<input type="checkbox"/>		
.argsv_Y=0	901C 20 11 84 JSR rAXY2_dontpullonreturn	<input type="checkbox"/>		
	901F A8 TAY	<input type="checkbox"/>		
	9020 C8 INY	<input type="checkbox"/>		
	9021 C0 03 CPY #&03	<input type="checkbox"/>		
	9023 B0 08 BCS .argsv_exit	<input type="checkbox"/>		y>=3
	9025 B9 81 99 LDA .args_y=0_tableHi,Y	<input type="checkbox"/>		
	9028 48 PHA	<input type="checkbox"/>		
	9029 B9 7E 99 LDA .args_y=0_tableLo,Y	<input type="checkbox"/>		
	902C 48 PHA	<input type="checkbox"/>		
.argsv_exit	902D 60 RTS	<input type="checkbox"/>		
.argsv_rdtypeptr_or_filelen	902E 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9031 20 A5 90 JSR CheckChannel(Y=hndl),ex.Y=intch	<input type="checkbox"/>		
	9034 8C C2 10 STY &10C2	<input type="checkbox"/>		
	9037 0A ASL	<input type="checkbox"/>		
	9038 0A ASL	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9039 6D C2 10 ADC &10C2	<input type="checkbox"/>		Y=Y*5
	903C A8 TAY	<input type="checkbox"/>		
	903D B9 10 11 LDA &1110,Y	<input type="checkbox"/>		
	9040 95 00 STA &00,X	<input type="checkbox"/>		
	9042 B9 11 11 LDA &1111,Y	<input type="checkbox"/>		
	9045 95 01 STA &01,X	<input type="checkbox"/>		
	9047 B9 12 11 LDA &1112,Y	<input type="checkbox"/>		
	904A 95 02 STA &02,X	<input type="checkbox"/>		
	904C A9 00 LDA #&00	<input type="checkbox"/>		
	904E 95 03 STA &03,X	<input type="checkbox"/>		
	9050 60 RTS	<input type="checkbox"/>		
IsHndlinUse(Y=intch) C=0 if yes	9051 48 PHA	<input type="checkbox"/>		
	9052 8E C6 10 STX &10C6	<input type="checkbox"/>		
	9055 98 TYA	<input type="checkbox"/>		
	9056 29 E0 AND #&E0	<input type="checkbox"/>		
	9058 8D C2 10 STA &10C2	<input type="checkbox"/>		
	905B F0 13 BEQ hndlinuse_exitC=1	<input type="checkbox"/>		
	905D 20 04 82 JSR .A>>5	<input type="checkbox"/>		ch.1-7
	9060 A8 TAY	<input type="checkbox"/>		creat bit mask
	9061 A9 00 LDA #&00	<input type="checkbox"/>		1=1000 0000
	9063 38 SEC	<input type="checkbox"/>		2=0100 0000 etc
	9064 6A ROR	<input type="checkbox"/>		
	9065 88 DEY	<input type="checkbox"/>		
	9066 D0 FC BNE &9064	<input type="checkbox"/>		
	9068 AC C2 10 LDY &10C2	<input type="checkbox"/>		
	906B 2C C0 10 BIT &10C0	<input type="checkbox"/>		
	906E D0 03 BNE hndlinuse_exitC=0	<input type="checkbox"/>		file open
hndlinuse_exitC=1	9070 68 PLA	<input type="checkbox"/>		
	9071 38 SEC	<input type="checkbox"/>		
	9072 60 RTS	<input type="checkbox"/>		
hndlinuse_exitC=0	9073 68 PLA	<input type="checkbox"/>		
	9074 18 CLC	<input type="checkbox"/>		
	9075 60 RTS	<input type="checkbox"/>		
.conv_Xhndl_intch ex.Y=intch, c=1 of ok	9076 48 PHA	<input type="checkbox"/>		
	9077 8A TXA	<input type="checkbox"/>		
	9078 4C 7D 90 JMP .conv_hndl_X_entry	<input type="checkbox"/>		
.conv_Yhndl_intch ex.Y=intch,exit.C=0 if ok	907B 48 PHA	<input type="checkbox"/>		&10 to &17 are
	907C 98 TYA	<input type="checkbox"/>		valid
.conv_hndl_X_entry	907D C9 10 CMP #&10	<input type="checkbox"/>		
	907F 90 04 BCC .conv_hndl<10	<input type="checkbox"/>		<&10
	9081 C9 18 CMP #&18	<input type="checkbox"/>		
	9083 90 02 BCC .conv_hndl<18	<input type="checkbox"/>		<&18
.conv_hndl<10	9085 A9 08 LDA #&08	<input type="checkbox"/>		intch=0
.conv_hndl<18	9087 20 0A 82 JSR .A<<5	<input type="checkbox"/>		if Y<&10 or >&18
	908A A8 TAY	<input type="checkbox"/>		ch0=&00, ch1=&20, ch2=&40
	908B 68 PLA	<input type="checkbox"/>		ch3=&60...ch7=&E0
	908C 60 RTS	<input type="checkbox"/>		c=1 if not valid
.fscv1_EOF?	908D 48 PHA	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	908E 98 TYA	<input type="checkbox"/>		
	908F 48 PHA	<input type="checkbox"/>		
	9090 8A TXA	<input type="checkbox"/>		
	9091 A8 TAY	<input type="checkbox"/>		
	9092 20 A5 90 JSR CheckChannel(Y=hndl),ex.Y=intch	<input type="checkbox"/>		
	9095 98 TYA	<input type="checkbox"/>		
	9096 20 F8 92 JSR .92f8 y=intch	<input type="checkbox"/>		
	9099 D0 04 BNE .909f	<input type="checkbox"/>		
	909B A2 FF LDX #&FF	<input type="checkbox"/>		
	909D D0 02 BNE .90a1	<input type="checkbox"/>		
.909f	909F A2 00 LDX #&00	<input type="checkbox"/>		
.90a1	90A1 68 PLA	<input type="checkbox"/>		
	90A2 A8 TAY	<input type="checkbox"/>		
	90A3 68 PLA	<input type="checkbox"/>		
.checkchannel_okexit	90A4 60 RTS	<input type="checkbox"/>		
CheckChannel(Y=hndl),ex.Y=intch	90A5 20 7B 90 JSR .conv_Yhndl_intch ex.Y=intch,exit.C=0 if ok	<input type="checkbox"/>		
	90A8 20 51 90 JSR IsHndlinUse(Y=intch) C=0 if yes	<input type="checkbox"/>		
	90AB 90 F7 BCC .checkchannel_okexit	<input type="checkbox"/>		
.errCHANNEL	90AD 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	90B0 DE 43 68 61 6E 6E 65 6C PChannel	<input type="checkbox"/>		
	90B8 00 .	<input type="checkbox"/>		
.errEOF	90B9 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	90BC DF 45 4F 46 00 SEOF.	<input type="checkbox"/>		
BGETV_ENTRY	90C1 20 11 84 JSR rAXY2_dontpullonreturn	<input type="checkbox"/>		Y=file hndl
	90C4 20 A5 90 JSR CheckChannel(Y=hndl),ex.Y=intch	<input type="checkbox"/>		
	90C7 98 TYA	<input type="checkbox"/>		
	90C8 20 F8 92 JSR .92f8 y=intch	<input type="checkbox"/>		Y preserved
	90CB D0 13 BNE .90e0 y=intch	<input type="checkbox"/>		
	90CD B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	90D0 29 10 AND #&10	<input type="checkbox"/>		
	90D2 D0 E5 BNE .errEOF	<input type="checkbox"/>		
	90D4 A9 10 LDA #&10	<input type="checkbox"/>		
	90D6 20 3C 91 JSR &913C	<input type="checkbox"/>		
	90D9 AE C6 10 LDX &10C6	<input type="checkbox"/>		
	90DC A9 FE LDA #&FE	<input type="checkbox"/>		
	90DE 38 SEC	<input type="checkbox"/>		
	90DF 60 RTS	<input type="checkbox"/>		
.90e0 y=intch	90E0 B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	90E3 30 0A BMI &90EF	<input type="checkbox"/>		
	90E5 20 83 8E JSR .setfiledrive Y=hndl	<input type="checkbox"/>		
	90E8 20 4B 91 JSR .filetomediasY	<input type="checkbox"/>		
	90EB 38 SEC	<input type="checkbox"/>		
	90EC 20 53 91 JSR .fileC=1fromC=0tomediasY	<input type="checkbox"/>		
	90EF B9 10 11 LDA &1110,Y	<input type="checkbox"/>		
	90F2 85 BC STA TextPointer_dfs	<input type="checkbox"/>		
	90F4 B9 13 11 LDA &1113,Y	<input type="checkbox"/>		
	90F7 85 BD STA &BD	<input type="checkbox"/>		
	90F9 A0 00 LDY #&00	<input type="checkbox"/>		
	90FB B1 BC LDA (TextPointer_dfs),Y	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	90FD 48 PHA	<input type="checkbox"/>		
	90FE AC C2 10 LDY &10C2	<input type="checkbox"/>		
	9101 A6 BC LDX TextPointer_dfs	<input type="checkbox"/>		
	9103 E8 INX	<input type="checkbox"/>		
	9104 8A TXA	<input type="checkbox"/>		
	9105 99 10 11 STA &1110,Y	<input type="checkbox"/>		
	9108 D0 14 BNE &911E	<input type="checkbox"/>		
	910A 18 CLC	<input type="checkbox"/>		
	910B B9 11 11 LDA &1111,Y	<input type="checkbox"/>		
	910E 69 01 ADC #&01	<input type="checkbox"/>		
	9110 99 11 11 STA &1111,Y	<input type="checkbox"/>		
	9113 B9 12 11 LDA &1112,Y	<input type="checkbox"/>		
	9116 69 00 ADC #&00	<input type="checkbox"/>		
	9118 99 12 11 STA &1112,Y	<input type="checkbox"/>		
	911B 20 41 91 JSR &9141	<input type="checkbox"/>		
	911E 18 CLC	<input type="checkbox"/>		
	911F 68 PLA	<input type="checkbox"/>		
	9120 60 RTS	<input type="checkbox"/>		
.9121 Y=intchnl	9121 18 CLC	<input type="checkbox"/>		
	9122 B9 0F 11 LDA &110F,Y	<input type="checkbox"/>		?Y=intchl
	9125 79 11 11 ADC &1111,Y	<input type="checkbox"/>		
	9128 85 C5 STA &C5	<input type="checkbox"/>		
	912A 99 1C 11 STA &111C,Y	<input type="checkbox"/>		
	912D B9 0D 11 LDA &110D,Y	<input type="checkbox"/>		?Y=intchl
	9130 29 03 AND #&03	<input type="checkbox"/>		
	9132 79 12 11 ADC &1112,Y	<input type="checkbox"/>		
	9135 85 C4 STA &C4	<input type="checkbox"/>		
	9137 99 1D 11 STA &111D,Y	<input type="checkbox"/>		
.913a Y=intchnl	913A A9 80 LDA #&80	<input type="checkbox"/>		
	913C 19 17 11 ORA &1117,Y	<input type="checkbox"/>		
	913F D0 05 BNE &9146	<input type="checkbox"/>		
	9141 A9 7F LDA #&7F	<input type="checkbox"/>		
.9143 Y=intchnl	9143 39 17 11 AND &1117,Y	<input type="checkbox"/>		
	9146 99 17 11 STA &1117,Y	<input type="checkbox"/>		
	9149 18 CLC	<input type="checkbox"/>		
	914A 60 RTS	<input type="checkbox"/>		
.filetoediaY	914B B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	914E 29 40 AND #&40	<input type="checkbox"/>		
	9150 F0 3D BEQ .filetofrommedia_exit	<input type="checkbox"/>		
	9152 18 CLC	<input type="checkbox"/>		
.fileC=1fromC=0toediaY	9153 08 PHP	<input type="checkbox"/>		CS=Read,CC=Write
	9154 20 9E 8B JSR FDC_DriveReady/Reset	<input type="checkbox"/>	JSR mmcsetFDCDRV	
	9157 AC C2 10 LDY &10C2	<input type="checkbox"/>		
	915A B9 13 11 LDA &1113,Y	<input type="checkbox"/>		
	915D 85 BF STA &BF	<input type="checkbox"/>		
	915F 20 D1 8B JSR set_1074/75=&FFFF (AXY preserved)	<input type="checkbox"/>	JSR mmcset7475	Not TUBE!
	9162 A9 00 LDA #&00	<input type="checkbox"/>		
	9164 85 BE STA &BE	<input type="checkbox"/>		
	9166 85 C2 STA &C2	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9168 A9 01 LDA #&01	<input type="checkbox"/>		
	916A 85 C3 STA &C3	<input type="checkbox"/>		
	916C 28 PLP	<input type="checkbox"/>		
	916D B0 17 BCS .rdfrommedia	<input type="checkbox"/>		
.wrtomedia	916F B9 1C 11 LDA &l11C,Y	<input type="checkbox"/>		
	9172 85 C5 STA &C5	<input type="checkbox"/>		
	9174 B9 1D 11 LDA &l11D,Y	<input type="checkbox"/>		
	9177 85 C4 STA &C4	<input type="checkbox"/>		
	9179 20 8F 87 JSR .savememblock	<input type="checkbox"/>		
	917C AC C2 10 LDY &10C2	<input type="checkbox"/>		
	917F A9 BF LDA #&BF	<input type="checkbox"/>		
	9181 20 43 91 JSR .9143 Y=intchnl	<input type="checkbox"/>		
	9184 90 06 BCC .918c	<input type="checkbox"/>		always branch
.rdfrommedia	9186 20 21 91 JSR .9121 Y=intchnl	<input type="checkbox"/>		
	9189 20 C6 87 JSR .loadmemblock	<input type="checkbox"/>		
.918c	918C AC C2 10 LDY &10C2	<input type="checkbox"/>		
.filetofrommedia_exit	918F 60 RTS	<input type="checkbox"/>		
.errchannel_2	9190 4C AD 90 JMP .errCHANNEL	<input type="checkbox"/>		
.errfilelocked_2	9193 4C 41 98 JMP .errFILELOCKED	<input type="checkbox"/>		
.errFILEREADONLY	9196 20 2B 80 JSR .errFILE	<input type="checkbox"/>		
	9199 C1 72 65 61 64 20 6F 6E Aread on	<input type="checkbox"/>		
	91A1 6C 79 00 ly.	<input type="checkbox"/>		
.bput_Y=intchan	91A4 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	91A7 4C B0 91 JMP &91B0	<input type="checkbox"/>		
BPUTV_ENTRY	91AA 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	91AD 20 A5 90 JSR CheckChannel(Y=hndl),ex.Y=intch	<input type="checkbox"/>		
	91B0 48 PHA	<input type="checkbox"/>		
	91B1 B9 0C 11 LDA &l10C,Y	<input type="checkbox"/>		?Y=intchnl
	91B4 30 E0 BMI .errFILEREADONLY	<input type="checkbox"/>		
	91B6 B9 0E 11 LDA &l10E,Y	<input type="checkbox"/>		?Y=intchnl
	91B9 30 D8 BMI .errfilelocked_2	<input type="checkbox"/>		
	91BB 20 83 8E JSR .setfiledrive Y=hndl	<input type="checkbox"/>		
	91BE 98 TYA	<input type="checkbox"/>		
	91BF 18 CLC	<input type="checkbox"/>		
	91C0 69 04 ADC #&04	<input type="checkbox"/>		
	91C2 20 F8 92 JSR .92f8 y=intch	<input type="checkbox"/>		
	91C5 D0 76 BNE .923D	<input type="checkbox"/>		
	91C7 20 58 8E JSR .setupsavetomedia Y=intch, exit ?10C4=catoffset	<input type="checkbox"/>		loads cat
	91CA AE C4 10 LDX &10C4	<input type="checkbox"/>		X=cat offset
	91CD 38 SEC	<input type="checkbox"/>		
	91CE BD 07 0F LDA &0F07,X	<input type="checkbox"/>		
	91D1 FD 0F 0F SBC &0F0F,X	<input type="checkbox"/>		
	91D4 48 PHA	<input type="checkbox"/>		
	91D5 BD 06 0F LDA &0F06,X	<input type="checkbox"/>		
	91D8 FD 0E 0F SBC &0F0E,X	<input type="checkbox"/>		
	91DB 29 03 AND #&03	<input type="checkbox"/>		
	91DD 8D C3 10 STA &10C3	<input type="checkbox"/>		
	91E0 0A ASL	<input type="checkbox"/>		
	91E1 0A ASL	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	91E2 0A ASL	<input type="checkbox"/>		
	91E3 0A ASL	<input type="checkbox"/>		
	91E4 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	91E7 29 30 AND #&30	<input type="checkbox"/>		
	91E9 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	91EC 9D 0E 0F STA &0F0E,X	<input type="checkbox"/>		
	91EF AD C3 10 LDA &10C3	<input type="checkbox"/>		
	91F2 D9 1A 11 CMP &111A,Y	<input type="checkbox"/>		
	91F5 D0 2B BNE .9222	<input type="checkbox"/>		
	91F7 68 PLA	<input type="checkbox"/>		
	91F8 D9 19 11 CMP &1119,Y	<input type="checkbox"/>		
	91FB D0 26 BNE .9223	<input type="checkbox"/>		
	91FD 84 B4 STY &B4	<input type="checkbox"/>		
	91FF 20 20 99 JSR osbyteC7 spool hdl	<input type="checkbox"/>		
	9202 20 76 90 JSR .conv_Xhndl_intch ex.Y=intch, c=1 of ok	<input type="checkbox"/>		
	9205 C4 B4 CPY &B4	<input type="checkbox"/>		
	9207 D0 03 BNE &920C	<input type="checkbox"/>		
	9209 20 11 99 JSR osbyteC7 r/w spool hndl = Y	<input type="checkbox"/>		
	920C A4 B4 LDY &B4	<input type="checkbox"/>		
	920E 20 05 8E JSR .updatecat&filetoedia Y=inthndl	<input type="checkbox"/>		
.errCAN'TEXTEND	9211 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	9214 BF 43 61 6E 27 74 20 65 Can't e	<input type="checkbox"/>		
	921C 78 74 65 6E 64 00 xtend.	<input type="checkbox"/>		
.9222	9222 68 PLA	<input type="checkbox"/>		
.9223	9223 9D 0D 0F STA &0F0D,X	<input type="checkbox"/>		
	9226 99 19 11 STA &1119,Y	<input type="checkbox"/>		
	9229 AD C3 10 LDA &10C3	<input type="checkbox"/>		
	922C 99 1A 11 STA &111A,Y	<input type="checkbox"/>		
	922F A9 00 LDA #&00	<input type="checkbox"/>		
	9231 9D 0C 0F STA &0F0C,X	<input type="checkbox"/>		
	9234 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>		save cat
	9237 20 E7 98 JSR RELEASE_NMI_WaitFDChusy (A=bitmask)(AXY preserved)	<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
	923A AC C2 10 LDY &10C2	<input type="checkbox"/>		
.923D	923D B9 17 11 LDA &1117,Y	<input type="checkbox"/>		
	9240 30 17 BMI &9259	<input type="checkbox"/>		
	9242 20 4B 91 JSR .filetoediaY	<input type="checkbox"/>		
	9245 B9 14 11 LDA &1114,Y	<input type="checkbox"/>		
	9248 D0 0B BNE &9255	<input type="checkbox"/>		
	924A 98 TYA	<input type="checkbox"/>		
	924B 20 F8 92 JSR .92f8 y=intch	<input type="checkbox"/>		
	924E D0 05 BNE &9255	<input type="checkbox"/>		
	9250 20 21 91 JSR .9121 Y=intchnl	<input type="checkbox"/>		
	9253 D0 04 BNE &9259	<input type="checkbox"/>		
	9255 38 SEC	<input type="checkbox"/>		
	9256 20 53 91 JSR .fileC=1fromC=0toediaY	<input type="checkbox"/>		
	9259 B9 10 11 LDA &1110,Y	<input type="checkbox"/>		
	925C 85 BC STA TextPointer_dfs	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	925E B9 13 11 LDA &1113,Y	<input type="checkbox"/>		
	9261 85 BD STA &BD	<input type="checkbox"/>		
	9263 68 PLA	<input type="checkbox"/>		
	9264 A0 00 LDY #&00	<input type="checkbox"/>		
	9266 91 BC STA (TextPointer_dfs),Y	<input type="checkbox"/>		
	9268 AC C2 10 LDY &10C2	<input type="checkbox"/>		
	926B A9 40 LDA #&40	<input type="checkbox"/>		
	926D 20 3C 91 JSR &913C	<input type="checkbox"/>		
	9270 E6 BC INC TextPointer_dfs	<input type="checkbox"/>		
	9272 A5 BC LDA TextPointer_dfs	<input type="checkbox"/>		
	9274 99 10 11 STA &1110,Y	<input type="checkbox"/>		
	9277 D0 13 BNE &928C	<input type="checkbox"/>		
	9279 20 41 91 JSR &9141	<input type="checkbox"/>		
	927C B9 11 11 LDA &1111,Y	<input type="checkbox"/>		
	927F 69 01 ADC #&01	<input type="checkbox"/>		
	9281 99 11 11 STA &1111,Y	<input type="checkbox"/>		
	9284 B9 12 11 LDA &1112,Y	<input type="checkbox"/>		
	9287 69 00 ADC #&00	<input type="checkbox"/>		
	9289 99 12 11 STA &1112,Y	<input type="checkbox"/>		
	928C 98 TYA	<input type="checkbox"/>		
	928D 20 F8 92 JSR .92f8 y=intch	<input type="checkbox"/>		
	9290 90 14 BCC &92A6	<input type="checkbox"/>		
	9292 A9 20 LDA #&20	<input type="checkbox"/>		
	9294 20 3C 91 JSR &913C	<input type="checkbox"/>		
	9297 A2 02 LDX #&02	<input type="checkbox"/>		
.9299LOOP	9299 B9 10 11 LDA &1110,Y	<input type="checkbox"/>		
	929C 99 14 11 STA &1114,Y	<input type="checkbox"/>		
	929F C8 INY	<input type="checkbox"/>		
	92A0 CA DEX	<input type="checkbox"/>		
	92A1 10 F6 BPL .9299LOOP	<input type="checkbox"/>		
	92A3 88 DEY	<input type="checkbox"/>		
	92A4 88 DEY	<input type="checkbox"/>		
	92A5 88 DEY	<input type="checkbox"/>		
.92A6 RTS	92A6 60 RTS	<input type="checkbox"/>		
.argsv_WriteSeqPointer	92A7 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		X=zp ctl blk
	92AA 20 A5 90 JSR CheckChannel(Y=hnd1),ex.Y=intch	<input type="checkbox"/>		Y=&20(1),&40(2)...
	92AD 20 14 82 JSR .Y=Y+4	<input type="checkbox"/>	JSR mmcsetptrtoext	Bug fix!
	92B0 20 10 93 JSR .cmpnewPTRwithEXT	<input type="checkbox"/>	NOP	does nothing?!
		<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
	92B3 AC C2 10 LDY &10C2	<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
		<input type="checkbox"/>	NOP	
.wsploop	92B6 20 10 93 JSR .cmpnewPTRwithEXT	<input type="checkbox"/>		
	92B9 B0 08 BCS .92c3 Y=intchnl	<input type="checkbox"/>		EXT >= PTR
	92BB A9 00 LDA #&00	<input type="checkbox"/>		
	92BD 20 A4 91 JSR .bput_Y=intchan	<input type="checkbox"/>		
	92C0 4C B6 92 JMP .wsploop	<input type="checkbox"/>		
.92c3 Y=intchnl	92C3 B5 00 LDA &00,X	<input type="checkbox"/>		set PTR

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Label	Code	Zero	New Instruction	Comment
	92C5 99 10 11 STA &1110,Y	<input type="checkbox"/>		
	92C8 B5 01 LDA &01,X	<input type="checkbox"/>		
	92CA 99 11 11 STA &1111,Y	<input type="checkbox"/>		
	92CD B5 02 LDA &02,X	<input type="checkbox"/>		
	92CF 99 12 11 STA &1112,Y	<input type="checkbox"/>		
	92D2 A9 6F LDA #&6F	<input type="checkbox"/>		
	92D4 20 43 91 JSR .9143 Y=intchnl	<input type="checkbox"/>		
	92D7 B9 0F 11 LDA &110F,Y	<input type="checkbox"/>		?Y=intchnl
	92DA 79 11 11 ADC &1111,Y	<input type="checkbox"/>		
	92DD 8D C5 10 STA &10C5	<input type="checkbox"/>		
	92E0 B9 0D 11 LDA &110D,Y	<input type="checkbox"/>		?Y=intchnl
	92E3 29 03 AND #&03	<input type="checkbox"/>		
	92E5 79 12 11 ADC &1112,Y	<input type="checkbox"/>		
	92E8 D9 1D 11 CMP &111D,Y	<input type="checkbox"/>		
	92EB D0 B9 BNE &92A6	<input type="checkbox"/>		
	92ED AD C5 10 LDA &10C5	<input type="checkbox"/>		
	92F0 D9 1C 11 CMP &111C,Y	<input type="checkbox"/>		
	92F3 D0 B1 BNE &92A6	<input type="checkbox"/>		
	92F5 4C 3A 91 JMP .91fa Y=intchnl	<input type="checkbox"/>		
.92f8 y=intch	92F8 AA TAX	<input type="checkbox"/>		
	92F9 B9 12 11 LDA &1112,Y	<input type="checkbox"/>		
	92FC DD 16 11 CMP &1116,X	<input type="checkbox"/>		
	92FF D0 0E BNE .92f8exit	<input type="checkbox"/>		
	9301 B9 11 11 LDA &1111,Y	<input type="checkbox"/>		
	9304 DD 15 11 CMP &1115,X	<input type="checkbox"/>		
	9307 D0 06 BNE .92f8exit	<input type="checkbox"/>		
	9309 B9 10 11 LDA &1110,Y	<input type="checkbox"/>		
	930C DD 14 11 CMP &1114,X	<input type="checkbox"/>		
.92f8exit	930F 60 RTS	<input type="checkbox"/>		
.cmpnewPTRwithEXT	9310 B9 14 11 LDA &1114,Y	<input type="checkbox"/>		comp ctl blk ptr
	9313 D5 00 CMP &00,X	<input type="checkbox"/>		to existing
	9315 B9 15 11 LDA &1115,Y	<input type="checkbox"/>		Z=1 if same
	9318 F5 01 SBC &01,X	<input type="checkbox"/>		(ch.1=&1138)
	931A B9 16 11 LDA &1116,Y	<input type="checkbox"/>		
	931D F5 02 SBC &02,X	<input type="checkbox"/>		
	931F 60 RTS	<input type="checkbox"/>		C=p>=n
AUTOBOOT	9320 A5 B3 LDA &B3	<input type="checkbox"/>		=value of Y on call 3
	9322 48 PHA	<input type="checkbox"/>		ie =0 then boot file
	9323 A9 FF LDA #&FF	<input type="checkbox"/>		
	9325 8D DE 10 STA &10DE	<input type="checkbox"/>		
.infACORNDFS	9328 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print "Acorn DFS"
	932B 41 63 6F 72 6E 20 44 46 Acorn DF	<input type="checkbox"/>		
	9333 53 0D 0D S..	<input type="checkbox"/>		
	9336 90 03 BCC .initDFS	<input type="checkbox"/>		always
CMD_DISK	9338 A9 FF LDA #&FF	<input type="checkbox"/>	JMP mmccmdisk	don't exec boot file
	933A 48 PHA	<input type="checkbox"/>		
.initDFS	933B A9 00 LDA #&00	<input type="checkbox"/>		
	933D BA TSX	<input type="checkbox"/>		
	933E 9D 06 01 STA &0106,X	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9341 A9 06 LDA #&06	<input type="checkbox"/>		new filing system
	9343 20 15 80 JSR .Go_FSCV	<input type="checkbox"/>		
	9346 A2 0D LDX #&0D	<input type="checkbox"/>		copy vectors
.vectloop	9348 BD 49 99 LDA .vectors_table,X	<input type="checkbox"/>		'
	934B 9D 12 02 STA &0212,X	<input type="checkbox"/>		'
	934E CA DEX	<input type="checkbox"/>		'
	934F 10 F7 BPL .vectloop	<input type="checkbox"/>		'
	9351 20 28 99 JSR osbyteA8 rom p.tbl	<input type="checkbox"/>		copy extended vectors
	9354 84 B1 STY PrivateWorkspacePointer+1	<input type="checkbox"/>		'
	9356 86 B0 STX PrivateWorkspacePointer	<input type="checkbox"/>		'
	9358 A2 07 LDX #&07	<input type="checkbox"/>		'
	935A A0 1B LDY #&1B	<input type="checkbox"/>		'
.extendedvec_loop	935C B9 3C 99 LDA &993C,Y	<input type="checkbox"/>		'
	935F 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		'
	9361 C8 INY	<input type="checkbox"/>		'
	9362 B9 3C 99 LDA &993C,Y	<input type="checkbox"/>		'
	9365 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		'
	9367 C8 INY	<input type="checkbox"/>		'
	9368 A5 F4 LDA PagedRomSelector_RAMCopy	<input type="checkbox"/>		'
	936A 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		'
	936C C8 INY	<input type="checkbox"/>		'
	936D CA DEX	<input type="checkbox"/>		'
	936E D0 EC BNE .extendedvec_loop	<input type="checkbox"/>		end extended vectors
	9370 86 CF STX CurrentDrv	<input type="checkbox"/>		curdrv=0
	9372 8C 82 10 STY CurrentCrvCatalog	<input type="checkbox"/>		curdrvcat<>0
	9375 A2 0F LDX #&0F	<input type="checkbox"/>		vectors claimed!
	9377 20 2C 99 JSR osbyte8F serv.req	<input type="checkbox"/>		
	937A 20 9E 98 JSR SetPrivateWorkspacePointer(B0)	<input type="checkbox"/>		
	937D A0 D4 LDY #&D4	<input type="checkbox"/>		
	937F B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9381 10 2F BPL .setupabs	<input type="checkbox"/>		PWS not setup
	9383 A0 D5 LDY #&D5	<input type="checkbox"/>		
	9385 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9387 30 27 BMI .absinited	<input type="checkbox"/>		already own abs wsp
	9389 20 8F 98 JSR ClaimStaticWorkspace	<input type="checkbox"/>		
	938C A0 00 LDY #&00	<input type="checkbox"/>		copy data
.copyPWStoSWS_LOOP	938E B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		from private wsp
	9390 C0 C0 CPY #&C0	<input type="checkbox"/>		to abs wsp
	9392 90 05 BCC &9399	<input type="checkbox"/>		'
	9394 99 00 10 STA &1000,Y	<input type="checkbox"/>		??10ok
	9397 B0 03 BCS &939C	<input type="checkbox"/>		'
	9399 99 00 11 STA &1100,Y	<input type="checkbox"/>		?Y=copy vars only
	939C 88 DEY	<input type="checkbox"/>		'
	939D D0 EF BNE .copyPWStoSWS_LOOP	<input type="checkbox"/>		'
	939F A9 A0 LDA #&A0	<input type="checkbox"/>		Setup channels
.93a1_LOOP	93A1 A8 TAY	<input type="checkbox"/>		'
	93A2 48 PHA	<input type="checkbox"/>		'
	93A3 A9 3F LDA #&3F	<input type="checkbox"/>		'
	93A5 20 43 91 JSR .9143 Y=intchnl	<input type="checkbox"/>		'

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	93A8 68 PLA	<input type="checkbox"/>		'
	93A9 99 1D 11 STA &111D,Y	<input type="checkbox"/>		'
	93AC E9 1F SBC #&1F	<input type="checkbox"/>		'
	93AE D0 F1 BNE .93a1 LOOP	<input type="checkbox"/>		'
.absinited	93B0 68 PLA	<input type="checkbox"/>		'
	93B1 60 RTS	<input type="checkbox"/>		RETURN
.setupabs	93B2 A9 FF LDA #&FF	<input type="checkbox"/>		Ptr=PWS
	93B4 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		PWS?&D4=&FF
	93B6 8D D4 10 STA &10D4	<input type="checkbox"/>		
	93B9 20 8F 98 JSR ClaimStaticWorkspace	<input type="checkbox"/>		
	93BC 20 24 99 JSR osbyteEA Tube?	<input type="checkbox"/>		
	93BF 8A TXA	<input type="checkbox"/>		X=0 if Tube not present
	93C0 49 FF EOR #&FF	<input type="checkbox"/>		
	93C2 8D D7 10 STA TubePresentIf0	<input type="checkbox"/>		=FF if Tube not present
	93C5 A9 24 LDA #&24	<input type="checkbox"/>		
	93C7 8D CA 10 STA &10CA	<input type="checkbox"/>		
	93CA 8D CC 10 STA &10CC	<input type="checkbox"/>		
	93CD A0 00 LDY #&00	<input type="checkbox"/>		
	93CF 8C CB 10 STY &10CB	<input type="checkbox"/>		
	93D2 8C CD 10 STY &10CD	<input type="checkbox"/>		
	93D5 A0 00 LDY #&00	<input type="checkbox"/>		
	93D7 8C C0 10 STY &10C0	<input type="checkbox"/>		
	93DA 8C C9 10 STY NMIsstatus	<input type="checkbox"/>		
	93DD 88 DEY	<input type="checkbox"/>		
	93DE 8C C8 10 STY CMDEnabledIf1	<input type="checkbox"/>		
	93E1 8C C7 10 STY &10C7	<input type="checkbox"/>		
	93E4 8C DE 10 STY &10DE	<input type="checkbox"/>		
	93E7 20 30 99 JSR osbyteFF startupopts	<input checked="" type="checkbox"/>	JSR mmcinitialise	X get drive timings
	93EA 86 B4 STX &B4	<input checked="" type="checkbox"/>	JMP .initcont	X
	93EC 8A TXA	<input checked="" type="checkbox"/>		X
BLOCK Z	93ED 29 30 AND #&30	<input checked="" type="checkbox"/>		X
	93EF 4A LSR	<input checked="" type="checkbox"/>		X
	93F0 4A LSR	<input checked="" type="checkbox"/>		X
	93F1 85 B0 STA PrivateWorkspacePointer	<input checked="" type="checkbox"/>		X
	93F3 4A LSR	<input checked="" type="checkbox"/>		X
	93F4 65 B0 ADC PrivateWorkspacePointer	<input checked="" type="checkbox"/>		X
	93F6 A8 TAY	<input checked="" type="checkbox"/>		X
	93F7 20 88 8B JSR FDC_cmdfromtable Y=index (exit Y=nextindex)	<input checked="" type="checkbox"/>		X init timings
	93FA A0 18 LDY #&18	<input checked="" type="checkbox"/>		X
	93FC A2 03 LDX #&03	<input checked="" type="checkbox"/>		X
.init_loop	93FE 20 88 8B JSR FDC_cmdfromtable Y=index (exit Y=nextindex)	<input checked="" type="checkbox"/>		X load surface 0
	9401 CA DEX	<input checked="" type="checkbox"/>		X spec reg, track 0
	9402 D0 FA BNE .init_loop	<input checked="" type="checkbox"/>		X ver dat
.initcont	9404 68 PLA	<input type="checkbox"/>		
	9405 D0 34 BNE .bootopt0_donothing	<input type="checkbox"/>		
	9407 20 EB 8A JSR LoadCurDrvCatalog	<input type="checkbox"/>	JSR mmcloadcurdrvcat	EXEC .. !Boot
	940A A0 00 LDY #&00	<input type="checkbox"/>		
	940C A2 00 LDX #&00	<input type="checkbox"/>		
	940E AD 06 0F LDA &0F06	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9411 20 05 82 JSR .A>>4	<input type="checkbox"/>		
	9414 F0 25 BEQ .bootopt0_donothing	<input type="checkbox"/>		opt.0
	9416 48 PHA	<input type="checkbox"/>		
	9417 A2 43 LDX #&43	<input type="checkbox"/>		!BOOT
	9419 A0 99 LDY #&99	<input type="checkbox"/>		
	941B 20 B8 86 JSR SetTextPointer=Y*100+X	<input type="checkbox"/>		
	941E 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	9421 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	9424 68 PLA	<input type="checkbox"/>		
	9425 B0 15 BCS .bootfilefound	<input type="checkbox"/>		
.errFILENOTFOUND	9427 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9429 80 46 69 6C 65 20 6E 6F €File no	<input type="checkbox"/>		
	9431 74 20 66 6F 75 6E 64 0D t found.	<input type="checkbox"/>		
	9439 0D .	<input type="checkbox"/>		
	943A EA NOP	<input type="checkbox"/>		
.bootopt0_donothing	943B 60 RTS	<input type="checkbox"/>		
.bootfilefound	943C C9 02 CMP #&02	<input type="checkbox"/>		
	943E 90 0E BCC .bootopt1_load	<input type="checkbox"/>		
	9440 F0 06 BEQ .bootopt2_run	<input type="checkbox"/>		
.bootopt3_exec	9442 A2 41 LDX #&41	<input type="checkbox"/>		
	9444 A0 99 LDY #&99	<input type="checkbox"/>		
	9446 D0 0A BNE .bootoscli	<input type="checkbox"/>		
.bootopt2_run	9448 A2 43 LDX #&43	<input type="checkbox"/>		
	944A A0 99 LDY #&99	<input type="checkbox"/>		
	944C D0 04 BNE .bootoscli	<input type="checkbox"/>		
.bootopt1_load	944E A2 39 LDX #&39	<input type="checkbox"/>		
	9450 A0 99 LDY #&99	<input type="checkbox"/>		
.bootoscli	9452 4C F7 FF JMP OSCLI	<input type="checkbox"/>		
SERVICE_claim_absworkspace	9455 C9 01 CMP #&01	<input type="checkbox"/>		A=1 : abs workspace claim
	9457 D0 07 BNE SERVICE_claim_privworkspace	<input type="checkbox"/>		
	9459 C0 17 CPY #&17	<input type="checkbox"/>		Y=current upper limit
	945B B0 02 BCS &945F	<input type="checkbox"/>		already >=&17
	945D A0 17 LDY #&17	<input type="checkbox"/>		Up upper limit to &17
	945F 60 RTS	<input type="checkbox"/>		
SERVICE_claim_privworkspace	9460 C9 02 CMP #&02	<input type="checkbox"/>		A=2 : priv workspace claim
	9462 D0 1A BNE SERVICE_autoboot	<input type="checkbox"/>		
	9464 48 PHA	<input type="checkbox"/>		
	9465 98 TYA	<input type="checkbox"/>		Y=First available page
	9466 18 CLC	<input type="checkbox"/>		
	9467 85 B1 STA PrivateWorkspacePointer+1	<input type="checkbox"/>		
	9469 9D F0 0D STA PagedROM_PrivWorkspaces,X	<input type="checkbox"/>		
	946C 69 02 ADC #&02	<input type="checkbox"/>		takes 2 pages for pwsp
	946E 48 PHA	<input type="checkbox"/>		
	946F A9 00 LDA #&00	<input type="checkbox"/>		store 0 at pwsp+&D4/&D5
	9471 85 B0 STA PrivateWorkspacePointer	<input type="checkbox"/>		
	9473 A0 D4 LDY #&D4	<input type="checkbox"/>		
	9475 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9477 C8 INY	<input type="checkbox"/>		
	9478 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	947A 68 PLA	<input type="checkbox"/>		
	947B A8 TAY	<input type="checkbox"/>		Y=Y+2
	947C 68 PLA	<input type="checkbox"/>		restore A
.dontStartDFS	947D 60 RTS	<input type="checkbox"/>		
SERVICE_autoboot	947E C9 03 CMP #&03	<input type="checkbox"/>		A=3 : auto boot
	9480 D0 19 BNE SERVICE_unrec_command	<input type="checkbox"/>		
	9482 84 B3 STY &B3	<input type="checkbox"/>		if Y=0 then !BOOT
	9484 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9487 A9 7A LDA #&7A	<input type="checkbox"/>		
	9489 20 F4 FF JSR OSBYTE	<input type="checkbox"/>		Keyboard scan
	948C 8A TXA	<input type="checkbox"/>		X=int.key.no
	948D 30 09 BMI &9498	<input type="checkbox"/>	JMP mmcstartopts	
	948F C9 32 CMP #&32	<input type="checkbox"/>		"D" key
	9491 D0 EA BNE .dontStartDFS	<input type="checkbox"/>		
	9493 A9 78 LDA #&78	<input type="checkbox"/>		
	9495 20 F4 FF JSR OSBYTE	<input type="checkbox"/>		write current keys pressed info
	9498 4C 20 93 JMP AUTOBOOT	<input type="checkbox"/>		
SERVICE_unrec_command	949B C9 04 CMP #&04	<input type="checkbox"/>		A=4 : unrec command
	949D D0 08 BNE SERVICE_help	<input type="checkbox"/>		
	949F 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	94A2 A2 72 LDX #&72	<input type="checkbox"/>		Ex-DFS commands
	94A4 4C 71 86 JMP UnrecCommand@TextPointer	<input type="checkbox"/>		
SERVICE_help	94A7 C9 09 CMP #&09	<input type="checkbox"/>		A=9 : *HELP
	94A9 D0 12 BNE SERVICE_claim_statworkspace	<input type="checkbox"/>		
	94AB 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	94AE B1 F2 LDA (TextPointer),Y	<input type="checkbox"/>	JMP mmodhelp	
	94B0 A2 A0 LDX #&A0	<input type="checkbox"/>		
	94B2 C9 0D CMP #&0D	<input type="checkbox"/>		
	94B4 D0 EE BNE &94A4	<input type="checkbox"/>		
	94B6 98 TYA	<input type="checkbox"/>		
	94B7 E8 INX	<input type="checkbox"/>		
	94B8 A0 02 LDY #&02	<input type="checkbox"/>		
	94BA 4C CB 99 JMP .prthelp	<input type="checkbox"/>		
SERVICE_claim_statworkspace	94BD C9 0A CMP #&0A	<input type="checkbox"/>		Another ROM
	94BF D0 29 BNE SERVICE_unrec_OSWORD	<input type="checkbox"/>		wants the
	94C1 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		absolute workspace
	94C4 20 9E 98 JSR SetPrivateWorkspacePointer(B0)	<input type="checkbox"/>		
	94C7 A0 D5 LDY #&D5	<input type="checkbox"/>		
	94C9 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		not using workspace!
	94CB 10 1C BPL .exitServiceCalls	<input type="checkbox"/>		
	94CD A0 00 LDY #&00	<input type="checkbox"/>		copy valuable
.stat_loop1	94CF C0 C0 CPY #&C0	<input type="checkbox"/>		data to private wsp
	94D1 90 05 BCC .stat_Y<C0	<input type="checkbox"/>		I.e. 10C0-10FF
	94D3 B9 00 10 LDA &l000,Y	<input type="checkbox"/>		and 1100-11BF
	94D6 B0 03 BCS .stat_Y>=C0	<input type="checkbox"/>		
.stat_Y<C0	94D8 B9 00 11 LDA &l100,Y	<input type="checkbox"/>		?Y = copy vars only
.stat_Y>=C0	94DB 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	94DD 88 DEY	<input type="checkbox"/>		
	94DE D0 EF BNE .stat_loop1	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	94E0 20 F2 8F JSR .argsv_allfilestomedia2	<input type="checkbox"/>		
	94E3 A0 D5 LDY #&D5	<input type="checkbox"/>		
	94E5 A9 00 LDA #&00	<input type="checkbox"/>		
	94E7 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
.exitServiceCalls	94E9 60 RTS	<input type="checkbox"/>		
SERVICE_unrec_OSWORD	94EA C9 08 CMP #&08	<input type="checkbox"/>		Last service call
	94EC D0 FB BNE .exitServiceCalls	<input type="checkbox"/>	BRX .newCalls	
	94EE 20 11 84 JSR rAXY2_dontpullonreturn	<input type="checkbox"/>		
	94F1 A4 F0 LDY &F0	<input type="checkbox"/>		Osword X reg
	94F3 84 B0 STY PrivateWorkspacePointer	<input type="checkbox"/>		
	94F5 A4 F1 LDY &F1	<input type="checkbox"/>		Osword Y reg
	94F7 84 B1 STY PrivateWorkspacePointer+1	<input type="checkbox"/>		
	94F9 A4 EF LDY &EF	<input type="checkbox"/>		Osword A reg
	94FB C0 7F CPY #&7F	<input type="checkbox"/>		
	94FD D0 4C BNE .notOsword&7F	<input type="checkbox"/>		
	94FF A0 00 LDY #&00	<input checked="" type="checkbox"/>	JMP mmcosword7F	OSWORD &7F
	9501 B1 B0 LDA (PrivateWorkspacePointer),Y	<input checked="" type="checkbox"/>		oswptr+0
BLOCK C		<input checked="" type="checkbox"/>		
.newCalls	9503 30 06 BMI .osword7F_dontreset	<input checked="" type="checkbox"/>	JMP mmcservice	
	9505 20 7E 87 JSR SetCurrentDrive	<input checked="" type="checkbox"/>		
	9508 20 9E 8B JSR FDC_DriveReady/Reset	<input checked="" type="checkbox"/>		
.osword7F_dontreset	950B C8 INY	<input checked="" type="checkbox"/>		
	950C A2 02 LDX #&02	<input checked="" type="checkbox"/>		be/bf=oswptr+1/2
	950E 20 DA 80 JSR copyvars((B0),Y to BC+X & (B0),Y+2 to 1072+X)	<input checked="" type="checkbox"/>		1074/75=oswptr+3/4
	9511 B1 B0 LDA (PrivateWorkspacePointer),Y	<input checked="" type="checkbox"/>		oswptr+5 = param.#
	9513 C8 INY	<input checked="" type="checkbox"/>		
	9514 48 PHA	<input checked="" type="checkbox"/>		
	9515 B1 B0 LDA (PrivateWorkspacePointer),Y	<input checked="" type="checkbox"/>		oswptr+6 = FDC cmd
	9517 48 PHA	<input checked="" type="checkbox"/>		
	9518 20 BD 8C JSR FDC_WriteCmd A=Cmd (ret. C=drv)	<input checked="" type="checkbox"/>		FDC CMD
	951B 68 PLA	<input checked="" type="checkbox"/>		
	951C 20 05 82 JSR .A>>4	<input checked="" type="checkbox"/>		
	951F 29 01 AND #&01	<input checked="" type="checkbox"/>		0=init rd/1=init wr
	9521 20 E6 8B JSR TubeRoutine_Init(A=op) C=0 if rw Tube else Host	<input checked="" type="checkbox"/>		
	9524 2A ROL	<input checked="" type="checkbox"/>		2 or 0
	9525 69 03 ADC #&03	<input checked="" type="checkbox"/>		3or5(tube)/4or6(host)
	9527 20 AC 98 JSR BLOCK A CLAIM_NMI A=CODE No (0 to 6)	<input checked="" type="checkbox"/>		3+4WR, 5+6RD
	952A A5 BE LDA &BE	<input checked="" type="checkbox"/>		oswptr+1
	952C 85 A6 STA NMI_DataPointer	<input checked="" type="checkbox"/>		
	952E A5 BF LDA &BF	<input checked="" type="checkbox"/>		oswptr+2
	9530 85 A7 STA NMI_DataPointer+1	<input checked="" type="checkbox"/>		
	9532 A0 07 LDY #&07	<input checked="" type="checkbox"/>		
	9534 68 PLA	<input checked="" type="checkbox"/>		oswptr+5=No.of FDC parameters
	9535 AA TAX	<input checked="" type="checkbox"/>		
	9536 F0 09 BEQ .osword7F_result	<input checked="" type="checkbox"/>		
.osowrd7F_paramloop	9538 B1 B0 LDA (PrivateWorkspacePointer),Y	<input checked="" type="checkbox"/>		
	953A 20 B0 8C JSR FDC_WriteParam A=Param	<input checked="" type="checkbox"/>		
	953D C8 INY	<input checked="" type="checkbox"/>		
	953E CA DEX	<input checked="" type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	953F D0 F7 BNE .osowrd7F_paramloop	<input checked="" type="checkbox"/>		
.osowrd7F_result	9541 20 CF 8C JSR FDC_ReadResult (ret. A=RESULT,C preserved)	<input checked="" type="checkbox"/>		
	9544 91 B0 STA (PrivateWorkspacePointer),Y	<input checked="" type="checkbox"/>		
	9546 A9 00 LDA #&00	<input checked="" type="checkbox"/>		
	9548 4C EA 98 JMP RELEASE_NMI (AXY preserved)	<input checked="" type="checkbox"/>		
.notOsword&7F	954B C0 7D CPY #&7D	<input type="checkbox"/>		
	954D 90 2B BCC .notDFSosword	<input type="checkbox"/>		
	954F 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		OSWORD A>=&7D
	9552 20 47 83 JSR LoadCurDrvCat (preserve AXY)	<input type="checkbox"/>		
	9555 C0 7E CPY #&7E	<input type="checkbox"/>		
	9557 F0 09 BEQ .Osword7E	<input type="checkbox"/>		
	9559 A0 00 LDY #&00	<input type="checkbox"/>		
	955B AD 04 0F LDA &0F04	<input type="checkbox"/>		Cycle no.
	955E 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9560 98 TYA	<input type="checkbox"/>		
	9561 60 RTS	<input type="checkbox"/>		
.Osword7E	9562 A9 00 LDA #&00	<input type="checkbox"/>		
	9564 A8 TAY	<input type="checkbox"/>		
	9565 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9567 C8 INY	<input type="checkbox"/>		
	9568 AD 07 0F LDA &0F07	<input type="checkbox"/>		sector count LB
	956B 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	956D C8 INY	<input type="checkbox"/>		
	956E AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9571 29 03 AND #&03	<input type="checkbox"/>		sector count HB (mixed byte)
	9573 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9575 C8 INY	<input type="checkbox"/>		
	9576 A9 00 LDA #&00	<input type="checkbox"/>		
	9578 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		result
.notDFSosword	957A 60 RTS	<input type="checkbox"/>		
FILEV_ENTRY	957B 20 11 84 JSR rAXY2_dontpullonreturn	<input type="checkbox"/>		
	957E 48 PHA	<input type="checkbox"/>		
	957F 20 62 82 JSR parameter_fsp	<input type="checkbox"/>		
	9582 86 B0 STX PrivateWorkspacePointer	<input type="checkbox"/>		
	9584 8E DC 10 STX &10DC	<input type="checkbox"/>		
	9587 84 B1 STY PrivateWorkspacePointer+1	<input type="checkbox"/>		
	9589 8C DD 10 STY &10DD	<input type="checkbox"/>		
	958C A2 00 LDX #&00	<input type="checkbox"/>		
	958E A0 00 LDY #&00	<input type="checkbox"/>		
	9590 20 EA 80 JSR copyword((B0),Y to BC,X)	<input type="checkbox"/>		filename ptr ->BC/BD
.filev_copyparams_loop	9593 20 DA 80 JSR copyvars((B0),Y to BC+X & (B0),Y+2 to 1072+X)	<input type="checkbox"/>		
	9596 C0 12 CPY #&12	<input type="checkbox"/>		
	9598 D0 F9 BNE .filev_copyparams_loop	<input type="checkbox"/>		
	959A 68 PLA	<input type="checkbox"/>		
	959B AA TAX	<input type="checkbox"/>		
	959C E8 INX	<input type="checkbox"/>		
	959D E0 08 CPX #&08	<input type="checkbox"/>		NB A=FF -> X=0
	959F B0 08 BCS .filev_unknownop	<input type="checkbox"/>		x>=8 (a>=7)
	95A1 BD 8C 99 LDA .finv_tablehi,X	<input type="checkbox"/>		get addr from table

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	95A4 48 PHA	<input type="checkbox"/>		and "return" to it
	95A5 BD 84 99 LDA .finv_tablelo,X	<input type="checkbox"/>		
	95A8 48 PHA	<input type="checkbox"/>		
.filev_unkownop	95A9 60 RTS	<input type="checkbox"/>		
FSCV_ENTIRY	95AA C9 09 CMP #&09	<input type="checkbox"/>		
	95AC B0 FB BCS .filev_unkownop	<input type="checkbox"/>		op>=9 not valide
	95AE 86 B5 STX &B5	<input type="checkbox"/>		
	95B0 AA TAX	<input type="checkbox"/>		
	95B1 BD 75 99 LDA .fscv_table2,X	<input type="checkbox"/>		
	95B4 48 PHA	<input type="checkbox"/>		
	95B5 BD 6C 99 LDA .fscv_table1,X	<input type="checkbox"/>		
	95B8 48 PHA	<input type="checkbox"/>		
	95B9 8A TXA	<input type="checkbox"/>		
	95BA A6 B5 LDX &B5	<input type="checkbox"/>		
	95BC 60 RTS	<input type="checkbox"/>		
.argsv_restcmdlineaddr	95BD A9 FF LDA #&FF	<input type="checkbox"/>		
	95BF 95 02 STA &02,X	<input type="checkbox"/>		
	95C1 95 03 STA &03,X	<input type="checkbox"/>		
	95C3 AD DA 10 LDA &10DA	<input type="checkbox"/>		
	95C6 95 00 STA &00,X	<input type="checkbox"/>		
	95C8 AD DB 10 LDA &10DB	<input type="checkbox"/>		
	95CB 95 01 STA &01,X	<input type="checkbox"/>		
	95CD A9 00 LDA #&00	<input type="checkbox"/>		
.gbpbv_unrecop	95CF 60 RTS	<input type="checkbox"/>		
GBPBV_ENTIRY	95D0 C9 09 CMP #&09	<input type="checkbox"/>		
	95D2 B0 FB BCS .gbpbv_unrecop	<input type="checkbox"/>		>=9 not valid
	95D4 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	95D7 8E 7D 10 STX &107D	<input type="checkbox"/>		XY -> param blk
	95DA 8C 7E 10 STY &107E	<input type="checkbox"/>		
	95DD A8 TAY	<input type="checkbox"/>		
	95DE BA TSX	<input type="checkbox"/>		
	95DF A9 00 LDA #&00	<input type="checkbox"/>		
	95E1 9D 05 01 STA &0105,X	<input type="checkbox"/>	JMP nmcgbpb1	
	95E4 B9 AB 99 LDA .gbpbv_table1,Y	<input type="checkbox"/>		
	95E7 8D D8 10 STA &10D8	<input type="checkbox"/>		w 10D8 = GBPB routine entry
	95EA B9 B4 99 LDA .gbpbv_table2,Y	<input type="checkbox"/>		
	95ED 8D D9 10 STA &10D9	<input type="checkbox"/>		
	95F0 B9 BD 99 LDA .gbpbv_table3,Y	<input type="checkbox"/>		
	95F3 4A LSR	<input type="checkbox"/>		
	95F4 08 PHP	<input type="checkbox"/>		
	95F5 4A LSR	<input type="checkbox"/>		
	95F6 08 PHP	<input type="checkbox"/>		
	95F7 8D 7F 10 STA &107F	<input type="checkbox"/>		save Tube op
	95FA 20 56 97 JSR .wordB4=107D	<input type="checkbox"/>		w B4 = w 1074 = XY on entry
	95FD A0 0C LDY #&0C	<input type="checkbox"/>		
.gbpb_cblkloop	95FF B1 B4 LDA (&B4),Y	<input type="checkbox"/>		Copy ctl block to &1060
	9601 99 60 10 STA &1060,Y	<input type="checkbox"/>		
	9604 88 DEY	<input type="checkbox"/>		
	9605 10 F8 BPL .gbpb_cblkloop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9607 AD 63 10 LDA &1063	<input type="checkbox"/>		data ptr bytes 3 & 4
	960A 2D 64 10 AND &1064	<input type="checkbox"/>		
	960D 0D D7 10 ORA TubePresentIf0	<input type="checkbox"/>		
	9610 18 CLC	<input type="checkbox"/>		
	9611 69 01 ADC #&01	<input type="checkbox"/>		
	9613 F0 02 BEQ ..gbpbnottube	<input type="checkbox"/>	JMP mmcgbpb2	not Tube!
	9615 A9 FF LDA #&FF	<input type="checkbox"/>		
		<input type="checkbox"/>	NOP	
..gbpbnottube	9617 8D 81 10 STA gbpb TUBE if =FF	<input type="checkbox"/>		GBPB to TUBE IF >=&80
	961A AD 7F 10 LDA &107F	<input type="checkbox"/>		Tube op! 0 or 1
	961D B0 07 BCS ..gbpbnottube2	<input type="checkbox"/>		
	961F A2 61 LDX #&61	<input type="checkbox"/>		init TUBE addr @ 1061
	9621 A0 10 LDY #&10	<input type="checkbox"/>		
	9623 20 06 04 JSR TubeCode(YX=addr,A=0:initrd,A=1:initwr,A=4:strexe)	<input type="checkbox"/>		
..gbpbnottube2	9626 28 PLP	<input type="checkbox"/>		
	9627 B0 04 BCS .gbpb A=1 - 4	<input type="checkbox"/>		Bit 1! A was <5
	9629 28 PLP	<input type="checkbox"/>		Bit 0 = 0
.gbpb JMP (10d8)	962A 6C D8 10 JMP (&10D8)	<input type="checkbox"/>		A = 0 , 5 - 8
.gbpb A=1 - 4	962D A2 03 LDX #&03	<input type="checkbox"/>		
..gbpb copy seqptr	962F BD 69 10 LDA &1069,X	<input type="checkbox"/>		!B6=seq ptr
	9632 95 B6 STA &B6,X	<input type="checkbox"/>		
	9634 CA DEX	<input type="checkbox"/>		
	9635 10 F8 BPL ..gbpb copy seqptr	<input type="checkbox"/>		
	9637 A2 B6 LDX #&B6	<input type="checkbox"/>		
	9639 AC 60 10 LDY &1060	<input type="checkbox"/>		
	963C A9 00 LDA #&00	<input type="checkbox"/>		
	963E 28 PLP	<input type="checkbox"/>		Bit 0!
	963F B0 03 BCS ..gbpb skip set ptr	<input type="checkbox"/>		Set=don't use new ptr
..gbpb skip set ptr	9641 20 A7 92 JSR .argsv_WriteSeqPointer	<input type="checkbox"/>		
	9644 20 2E 90 JSR .argsv_rdtypeptr_or_filelen	<input type="checkbox"/>		
	9647 A2 03 LDX #&03	<input type="checkbox"/>		
..gbpb copy back seq ptr	9649 B5 B6 LDA &B6,X	<input type="checkbox"/>		
	964B 9D 69 10 STA &1069,X	<input type="checkbox"/>		
	964E CA DEX	<input type="checkbox"/>		
	964F 10 F8 BPL ..gbpb copy back seq ptr	<input type="checkbox"/>		
	9651 20 48 97 JSR .!1065=!1065 EOR FFFF	<input type="checkbox"/>		No of bytes
	9654 30 0D BMI ..gbpb loop entry	<input type="checkbox"/>		always jumps!
..gbpb loop	9656 AC 60 10 LDY &1060	<input type="checkbox"/>		Y=handle
	9659 20 2A 96 JSR .gbpb JMP (10d8)	<input type="checkbox"/>		Jmp routine!!!
	965C B0 0D BCS ..gbpb exit err	<input type="checkbox"/>		
	965E A2 09 LDX #&09	<input type="checkbox"/>		
	9660 20 3C 97 JSR .Inc 1060+X	<input type="checkbox"/>		Inc Seq Ptr
..gbpb loop entry	9663 A2 05 LDX #&05	<input type="checkbox"/>		
	9665 20 3C 97 JSR .Inc 1060+X	<input type="checkbox"/>		Inc No. of Bytes
	9668 D0 EC BNE ..gbpb loop	<input type="checkbox"/>		More bytes?
	966A 18 CLC	<input type="checkbox"/>		
..gbpb exit err	966B 08 PHP	<input type="checkbox"/>		save result
	966C 20 48 97 JSR .!1065=!1065 EOR FFFF	<input type="checkbox"/>		restore ctl block
	966F A2 05 LDX #&05	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9671 20 3C 97 JSR .Inc 1060+X	<input type="checkbox"/>		Inc No. of bytes
	9674 A0 0C LDY #&0C	<input type="checkbox"/>		
	9676 20 56 97 JSR .wordB4=107D	<input type="checkbox"/>		restore ctl block ptr
..gpbp copy back ctl blk	9679 B9 60 10 LDA &1060,Y	<input type="checkbox"/>		copy ctl block back to
	967C 91 B4 STA (&B4),Y	<input type="checkbox"/>		orig location
	967E 88 DEY	<input type="checkbox"/>		
	967F 10 F8 BPL ..gpbp copy back ctl blk	<input type="checkbox"/>		
	9681 28 PLP	<input type="checkbox"/>		C=1 if not completed!!!!
	9682 60 RTS	<input type="checkbox"/>		
.gpbp8_rdfilescurdir	9683 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
	9686 20 DE 8A JSR CheckCurDrvCatalog	<input type="checkbox"/>	JSR mmloadcurdrvcat	
	9689 A9 95 LDA #&95	<input type="checkbox"/>		
	968B 8D D8 10 STA &10D8	<input type="checkbox"/>		
	968E A9 96 LDA #&96	<input type="checkbox"/>		
	9690 8D D9 10 STA &10D9	<input type="checkbox"/>		
	9693 D0 BC BNE &9651	<input type="checkbox"/>		
	9695 AC 69 10 LDY &1069	<input type="checkbox"/>		
	9698 CC 05 0F CPY FilesX8	<input type="checkbox"/>		
	969B B0 28 BCS &96C5	<input type="checkbox"/>		
	969D B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	96A0 20 EE 82 JSR alphachr_ifC=0 (A=Chr) A preserved	<input type="checkbox"/>		
	96A3 45 CE EOR DirectoryParam	<input type="checkbox"/>		
	96A5 B0 02 BCS &96A9	<input type="checkbox"/>		
	96A7 29 DF AND #&DF	<input type="checkbox"/>		
	96A9 29 7F AND #&7F	<input type="checkbox"/>		
	96AB F0 05 BEQ &96B2	<input type="checkbox"/>		
	96AD 20 10 82 JSR .Y=Y+8	<input type="checkbox"/>		
	96B0 D0 E6 BNE &9698	<input type="checkbox"/>		
	96B2 A9 07 LDA #&07	<input type="checkbox"/>		
	96B4 20 6A 97 JSR .gpbp_gb_SAVEBYTE	<input type="checkbox"/>		
	96B7 85 B0 STA PrivateWorkspacePointer	<input type="checkbox"/>		
	96B9 B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	96BC 20 6A 97 JSR .gpbp_gb_SAVEBYTE	<input type="checkbox"/>		
	96BF C8 INY	<input type="checkbox"/>		
	96C0 C6 B0 DEC PrivateWorkspacePointer	<input type="checkbox"/>		
	96C2 D0 F5 BNE &96B9	<input type="checkbox"/>		
	96C4 18 CLC	<input type="checkbox"/>		
	96C5 8C 69 10 STY &1069	<input type="checkbox"/>		
	96C8 AD 04 0F LDA &0F04	<input type="checkbox"/>		
	96CB 8D 60 10 STA &1060	<input type="checkbox"/>		
	96CE 60 RTS	<input type="checkbox"/>		
.gpbp5_getmediatitle	96CF 20 4D 83 JSR setCECF_driveno	<input type="checkbox"/>		
	96D2 20 DE 8A JSR CheckCurDrvCatalog	<input type="checkbox"/>	JSR mmloadcurdrvcat	
	96D5 A9 0C LDA #&0C	<input type="checkbox"/>		
	96D7 20 6A 97 JSR .gpbp_gb_SAVEBYTE	<input type="checkbox"/>		
	96DA A0 00 LDY #&00	<input type="checkbox"/>		
	96DC B9 00 0E LDA &0E00,Y	<input type="checkbox"/>		
	96DF 20 6A 97 JSR .gpbp_gb_SAVEBYTE	<input type="checkbox"/>		
	96E2 C8 INY	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	96E3 C0 08 CPY #&08	<input type="checkbox"/>		
	96E5 D0 F5 BNE &96DC	<input type="checkbox"/>		
	96E7 B9 F8 0E LDA &0EF8,Y	<input type="checkbox"/>		
	96EA 20 6A 97 JSR .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
	96ED C8 INY	<input type="checkbox"/>		
	96EE C0 0C CPY #&0C	<input type="checkbox"/>		
	96F0 D0 F5 BNE &96E7	<input type="checkbox"/>		
	96F2 AD 06 0F LDA &0F06	<input type="checkbox"/>		
	96F5 20 05 82 JSR .A>>4	<input type="checkbox"/>		
	96F8 20 6A 97 JSR .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
	96FB A5 CF LDA CurrentDrv	<input type="checkbox"/>		
	96FD 4C 6A 97 JMP .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
.gbpb6_rdcurdir&device	9700 20 61 97 JSR &9761	<input type="checkbox"/>		
	9703 AD CB 10 LDA &10CB	<input type="checkbox"/>		
	9706 09 30 ORA #&30	<input type="checkbox"/>		
	9708 20 6A 97 JSR .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
	970B 20 61 97 JSR &9761	<input type="checkbox"/>		
	970E AD CA 10 LDA &10CA	<input type="checkbox"/>		
	9711 4C 6A 97 JMP .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
.gbpb7_rdcurlib&device	9714 20 61 97 JSR &9761	<input type="checkbox"/>		
	9717 AD CD 10 LDA &10CD	<input type="checkbox"/>		
	971A 09 30 ORA #&30	<input type="checkbox"/>		
	971C 20 6A 97 JSR .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
	971F 20 61 97 JSR &9761	<input type="checkbox"/>		
	9722 AD CC 10 LDA &10CC	<input type="checkbox"/>		
	9725 4C 6A 97 JMP .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
.wB8=w1061 X=0	9728 48 PHA	<input type="checkbox"/>		
	9729 AD 61 10 LDA &1061	<input type="checkbox"/>		
	972C 85 B8 STA &B8	<input type="checkbox"/>		
	972E AD 62 10 LDA &1062	<input type="checkbox"/>		
	9731 85 B9 STA &B9	<input type="checkbox"/>		
	9733 A2 00 LDX #&00	<input type="checkbox"/>		
	9735 68 PLA	<input type="checkbox"/>		
	9736 60 RTS	<input type="checkbox"/>		
.Inc 1061	9737 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	973A A2 01 LDX #&01	<input type="checkbox"/>		
.Inc 1060+X	973C A0 04 LDY #&04	<input type="checkbox"/>		
.973e_loop	973E FE 60 10 INC &1060,X	<input type="checkbox"/>		Inc 4 byte number
	9741 D0 04 BNE .9747_exit	<input type="checkbox"/>		
	9743 E8 INX	<input type="checkbox"/>		
	9744 88 DEY	<input type="checkbox"/>		
	9745 D0 F7 BNE .973e_loop	<input type="checkbox"/>		
.9747_exit	9747 60 RTS	<input type="checkbox"/>		
.!1065=!1065 EOR FFFF	9748 A2 03 LDX #&03	<input type="checkbox"/>		
.974a-loop	974A A9 FF LDA #&FF	<input type="checkbox"/>		
	974C 5D 65 10 EOR &1065,X	<input type="checkbox"/>		??10ok
	974F 9D 65 10 STA &1065,X	<input type="checkbox"/>		??10ok
	9752 CA DEX	<input type="checkbox"/>		
	9753 10 F5 BPL .974a-loop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9755 60 RTS	<input type="checkbox"/>		
.wordB4=107D	9756 AD 7D 10 LDA &107D	<input type="checkbox"/>		
	9759 85 B4 STA &B4	<input type="checkbox"/>		
	975B AD 7E 10 LDA &107E	<input type="checkbox"/>		
	975E 85 B5 STA &B5	<input type="checkbox"/>		
.gbpb_gb_err	9760 60 RTS	<input type="checkbox"/>		
	9761 A9 01 LDA #&01	<input type="checkbox"/>		
	9763 D0 05 BNE .gbpb_gb_SAVEBYTE	<input type="checkbox"/>		
.gbpb_getbytes	9765 20 C1 90 JSR BGETV_ENTRY	<input type="checkbox"/>		
	9768 B0 F6 BCS .gbpb_gb_err	<input type="checkbox"/>		
.gbpb_gb_SAVEBYTE	976A 2C 81 10 BIT gbpb TUBE if =FF	<input type="checkbox"/>		
	976D 10 06 BPL .gBpb_gb_fromhost	<input type="checkbox"/>		
	976F 8D E5 FE STA TUBE_R3_DATA	<input type="checkbox"/>		fast Tube Bget
	9772 4C 37 97 JMP .Inc 1061	<input type="checkbox"/>		
.gBpb_gb_fromhost	9775 20 28 97 JSR .wB8=w1061 X=0	<input type="checkbox"/>		
	9778 81 B8 STA (&B8,X)	<input type="checkbox"/>		
	977A 4C 37 97 JMP .Inc 1061	<input type="checkbox"/>		
.gbpb_putbytes	977D 20 85 97 JSR .gbpb_pb_LOADBYTE	<input type="checkbox"/>		
	9780 20 AA 91 JSR BPUTV_ENTRY	<input type="checkbox"/>		
	9783 18 CLC	<input type="checkbox"/>		always ok!
	9784 60 RTS	<input type="checkbox"/>		
.gbpb_pb_LOADBYTE	9785 2C 81 10 BIT gbpb TUBE if =FF	<input type="checkbox"/>		
	9788 10 06 BPL ..gbpb_pb_fromhost	<input type="checkbox"/>		
	978A AD E5 FE LDA TUBE_R3_DATA	<input type="checkbox"/>		fast Tube Bput
	978D 4C 37 97 JMP .Inc 1061	<input type="checkbox"/>		
..gbpb_pb_fromhost	9790 20 28 97 JSR .wB8=w1061 X=0	<input type="checkbox"/>		
	9793 A1 B8 LDA (&B8,X)	<input type="checkbox"/>		
	9795 4C 37 97 JMP .Inc 1061	<input type="checkbox"/>		
.fscv_osabouttoproccmd	9798 2C C8 10 BIT CMDEnabledIf1	<input type="checkbox"/>		
	979B 30 03 BMI &97A0	<input type="checkbox"/>		
	979D CE C8 10 DEC CMDEnabledIf1	<input type="checkbox"/>		
	97A0 60 RTS	<input type="checkbox"/>		
.osfile5_rdcatinfo	97A1 20 5A 98 JSR .985a	<input type="checkbox"/>		
	97A4 20 7E 83 JSR readfileattribs Y=offset of file	<input type="checkbox"/>		
	97A7 A9 01 LDA #&01	<input type="checkbox"/>		
	97A9 60 RTS	<input type="checkbox"/>		
.osfile6_delfile	97AA 20 37 98 JSR &9837	<input type="checkbox"/>		
	97AD 20 7E 83 JSR readfileattribs Y=offset of file	<input type="checkbox"/>		
	97B0 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		
	97B3 90 24 BCC &97D9	<input type="checkbox"/>		
.osfile1_updatecat	97B5 20 37 98 JSR &9837	<input type="checkbox"/>		
	97B8 20 DF 97 JSR &97DF	<input type="checkbox"/>		
	97BB 20 FB 97 JSR &97FB	<input type="checkbox"/>		
	97BE 50 16 BVC &97D6	<input type="checkbox"/>		
.osfile2_wrloadaddr	97C0 20 37 98 JSR &9837	<input type="checkbox"/>		
	97C3 20 DF 97 JSR &97DF	<input type="checkbox"/>		
	97C6 50 11 BVC &97D9	<input type="checkbox"/>		
.osfile3_wrexecaddr	97C8 20 37 98 JSR &9837	<input type="checkbox"/>		
	97CB 20 FB 97 JSR &97FB	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	97CE 50 09 BVC &97D9	<input type="checkbox"/>		
.osfile4_wrattribs	97D0 20 5A 98 JSR .985a	<input type="checkbox"/>		
	97D3 20 4F 98 JSR &984F	<input type="checkbox"/>		
	97D6 20 1E 98 JSR &981E	<input type="checkbox"/>		
	97D9 20 C3 88 JSR &88C3	<input type="checkbox"/>		
	97DC A9 01 LDA #&01	<input type="checkbox"/>		
	97DE 60 RTS	<input type="checkbox"/>		
	97DF 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	97E2 A0 02 LDY #&02	<input type="checkbox"/>		
	97E4 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	97E6 9D 08 0F STA &0F08,X	<input type="checkbox"/>		
	97E9 C8 INY	<input type="checkbox"/>		
	97EA B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	97EC 9D 09 0F STA &0F09,X	<input type="checkbox"/>		
	97EF C8 INY	<input type="checkbox"/>		
	97F0 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	97F2 0A ASL	<input type="checkbox"/>		
	97F3 0A ASL	<input type="checkbox"/>		
	97F4 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	97F7 29 0C AND #&0C	<input type="checkbox"/>		
	97F9 10 1B BPL &9816	<input type="checkbox"/>		
	97FB 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	97FE A0 06 LDY #&06	<input type="checkbox"/>		
	9800 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9802 9D 0A 0F STA &0F0A,X	<input type="checkbox"/>		
	9805 C8 INY	<input type="checkbox"/>		
	9806 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9808 9D 0B 0F STA &0F0B,X	<input type="checkbox"/>		
	980B C8 INY	<input type="checkbox"/>		
	980C B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	980E 6A ROR	<input type="checkbox"/>		
	980F 6A ROR	<input type="checkbox"/>		
	9810 6A ROR	<input type="checkbox"/>		
	9811 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	9814 29 C0 AND #&C0	<input type="checkbox"/>		
	9816 5D 0E 0F EOR &0F0E,X	<input type="checkbox"/>		
	9819 9D 0E 0F STA &0F0E,X	<input type="checkbox"/>		
	981C B8 CLV	<input type="checkbox"/>		
	981D 60 RTS	<input type="checkbox"/>		
	981E 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9821 A0 0E LDY #&0E	<input type="checkbox"/>		
	9823 B1 B0 LDA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	9825 29 0A AND #&0A	<input type="checkbox"/>		
	9827 F0 02 BEQ &982B	<input type="checkbox"/>		
	9829 A9 80 LDA #&80	<input type="checkbox"/>		
	982B 5D 0F 0E EOR &0E0F,X	<input type="checkbox"/>		
	982E 29 80 AND #&80	<input type="checkbox"/>		
	9830 5D 0F 0E EOR &0E0F,X	<input type="checkbox"/>		
	9833 9D 0F 0E STA &0E0F,X	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9836 60 RTS	<input type="checkbox"/>		
	9837 20 64 98 JSR .9864 rd(a)fsp@BC,find catentry,set pwspptr,C=0nf)	<input type="checkbox"/>		
	983A 90 23 BCC &985F	<input type="checkbox"/>		
CheckFileNotLocked	983C B9 0F 0E LDA &0E0F,Y	<input type="checkbox"/>		
	983F 10 22 BPL &9863	<input type="checkbox"/>		
.errFILELOCKED	9841 20 2B 80 JSR .errFILE	<input type="checkbox"/>		
	9844 C3 6C 6F 63 6B 65 64 00 Ålocked.	<input type="checkbox"/>		
CheckFileNotOpen	984C 20 3C 98 JSR CheckFileNotLocked	<input type="checkbox"/>		
	984F 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9852 20 9E 8F JSR .8f9e	<input type="checkbox"/>		
	9855 90 21 BCC .checkexit	<input type="checkbox"/>		
	9857 4C 02 8F JMP .errFILEOPEN	<input type="checkbox"/>		
.985a	985A 20 64 98 JSR .9864 rd(a)fsp@BC,find catentry,set pwspptr,C=0nf)	<input type="checkbox"/>		
	985D B0 19 BCS .checkexit	<input type="checkbox"/>		
	985F 68 PLA	<input type="checkbox"/>		
	9860 68 PLA	<input type="checkbox"/>		
	9861 A9 00 LDA #&00	<input type="checkbox"/>		
	9863 60 RTS	<input type="checkbox"/>		
.9864 rd(a)fsp@BC,find catentry,set pwspptr,C=0nf)	9864 20 06 81 JSR read_(a)fsp@(&BC) (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	9867 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	986A 90 0C BCC .checkexit	<input type="checkbox"/>		
	986C 98 TYA	<input type="checkbox"/>		
	986D AA TAX	<input type="checkbox"/>		
.986e pwspptr=?10DC/DD	986E AD DC 10 LDA &10DC	<input type="checkbox"/>		
	9871 85 B0 STA PrivateWorkspacePointer	<input type="checkbox"/>		
	9873 AD DD 10 LDA &10DD	<input type="checkbox"/>		
	9876 85 B1 STA PrivateWorkspacePointer+1	<input type="checkbox"/>		
.checkexit	9878 60 RTS	<input type="checkbox"/>		
CalcRAM(HIMEM-PAGE+1)	9879 A9 83 LDA #&83	<input type="checkbox"/>		
	987B 20 F4 FF JSR OSBYTE	<input type="checkbox"/>		YX=OSHWMM (PAGE)
	987E 8C D0 10 STY Page	<input type="checkbox"/>		
	9881 A9 84 LDA #&84	<input type="checkbox"/>		
	9883 20 F4 FF JSR OSBYTE	<input type="checkbox"/>		YX=HIMEM
	9886 98 TYA	<input type="checkbox"/>		
	9887 38 SEC	<input type="checkbox"/>		
	9888 ED D0 10 SBC Page	<input type="checkbox"/>		HIMEMpage-OSHWMPage+1
	988B 8D D1 10 STA Himem-Page	<input type="checkbox"/>		
	988E 60 RTS	<input type="checkbox"/>		
ClaimStaticWorkspace	988F A2 0A LDX #&0A	<input type="checkbox"/>		
	9891 20 2C 99 JSR osbyte8F serv.req	<input type="checkbox"/>		
	9894 20 9E 98 JSR SetPrivateWorkspacePointer(B0)	<input type="checkbox"/>		
	9897 A0 D5 LDY #&D5	<input type="checkbox"/>		
	9899 A9 FF LDA #&FF	<input type="checkbox"/>		
	989B 91 B0 STA (PrivateWorkspacePointer),Y	<input type="checkbox"/>		
	989D 60 RTS	<input type="checkbox"/>		
SetPrivateWorkspacePointer(B0)	989E 48 PHA	<input type="checkbox"/>		
	989F A6 F4 LDX PagedRomSelector_RAMCopy	<input type="checkbox"/>		
	98A1 A9 00 LDA #&00	<input type="checkbox"/>		
	98A3 85 B0 STA PrivateWorkspacePointer	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	98A5 BD F0 0D LDA PagedROM_PrivWorkspaces,X	<input type="checkbox"/>		
	98A8 85 B1 STA PrivateWorkspacePointer+1	<input type="checkbox"/>		
	98AA 68 PLA	<input type="checkbox"/>		
	98AB 60 RTS	<input type="checkbox"/>		
BLOCK A CLAIM_NMI A=CODE No (0 to 6)	98AC 20 E1 83 JSR rememberAXY	<input checked="" type="checkbox"/>		
	98AF 48 PHA	<input checked="" type="checkbox"/>		
	98B0 2C C9 10 BIT NMISTatus	<input checked="" type="checkbox"/>		own NMI?
	98B3 30 0E BMI .alreadyown_NMI	<input checked="" type="checkbox"/>		
	98B5 A9 8F LDA #8F	<input checked="" type="checkbox"/>		Iss.pg.rom service request
	98B7 A2 0C LDX #0C	<input checked="" type="checkbox"/>		service type: NMI CLAIM
	98B9 20 34 99 JSR osbyte Y=FF	<input checked="" type="checkbox"/>		
	98BC 84 A0 STY NMI_PrevNMIOwner	<input checked="" type="checkbox"/>		=Prev.owner of NMI
	98BE A9 FF LDA #FF	<input checked="" type="checkbox"/>		
	98C0 8D C9 10 STA NMISTatus	<input checked="" type="checkbox"/>		
.alreadyown_NMI	98C3 68 PLA	<input checked="" type="checkbox"/>		COPY CODE TO &D00
	98C4 AA TAX	<input checked="" type="checkbox"/>		
	98C5 BD 94 99 LDA .NMI_Table1,X	<input checked="" type="checkbox"/>		
	98C8 85 B8 STA &B8	<input checked="" type="checkbox"/>		
	98CA BD 9B 99 LDA .NMI_Table2,X	<input checked="" type="checkbox"/>		
	98CD 85 B9 STA &B9	<input checked="" type="checkbox"/>		
	98CF BC A2 99 LDY .NMI_Table3,X	<input checked="" type="checkbox"/>		
	98D2 B1 B8 LDA (&B8),Y	<input checked="" type="checkbox"/>		
	98D4 99 00 0D STA NMIRoutine(D00-D9E),Y	<input checked="" type="checkbox"/>		
	98D7 88 DEY	<input checked="" type="checkbox"/>		
	98D8 10 F8 BPL &98D2	<input checked="" type="checkbox"/>		
	98DA E0 02 CPX #02	<input checked="" type="checkbox"/>		
	98DC B0 08 BCS .claimmxiexit	<input checked="" type="checkbox"/>		Code X>=2
	98DE A5 F4 LDA PagedRomSelector_RAMCopy	<input checked="" type="checkbox"/>		I.e. DFS Rom no
	98E0 BC A9 99 LDY .NMI_Table4,X	<input checked="" type="checkbox"/>		Y=offset to store rom no
	98E3 99 00 0D STA NMIRoutine(D00-D9E),Y	<input checked="" type="checkbox"/>		0:D63 1:D43
.claimmxiexit	98E6 60 RTS	<input checked="" type="checkbox"/>		
RELEASE_NMI_WaitFDCbusy (A=bitmask)(AXY preserved)	98E7 20 D6 8C JSR FDC_WaitIfBusy (AXY preserved)	<input checked="" type="checkbox"/>		
RELEASE_NMI (AXY preserved)	98EA 20 E1 83 JSR rememberAXY	<input checked="" type="checkbox"/>		
	98ED 2C C9 10 BIT NMISTatus	<input checked="" type="checkbox"/>		don't own NMI
	98F0 10 0E BPL .release_nmi_clr10c9	<input checked="" type="checkbox"/>		
	98F2 20 E1 83 JSR rememberAXY	<input checked="" type="checkbox"/>		again?
	98F5 A4 A0 LDY NMI_PrevNMIOwner	<input checked="" type="checkbox"/>		prev.nmi.owner
	98F7 C0 FF CPY #FF	<input checked="" type="checkbox"/>		
	98F9 F0 05 BEQ .release_nmi_clr10c9	<input checked="" type="checkbox"/>		
	98FB A2 0B LDX #0B	<input checked="" type="checkbox"/>		Release NMI space
	98FD 20 2C 99 JSR osbyte8F serv.req	<input checked="" type="checkbox"/>		type 0b; y=prev.nmi.owner
.release_nmi_clr10c9	9900 A9 00 LDA #00	<input checked="" type="checkbox"/>		
	9902 8D C9 10 STA NMISTatus	<input checked="" type="checkbox"/>		
	9905 60 RTS	<input checked="" type="checkbox"/>		end release_nmi
osbyte0F flush.in.buf (rem.AXY)	9906 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
osbyte0F flush.in.buf	9909 A9 0F LDA #0F	<input type="checkbox"/>		
	990B A2 01 LDX #01	<input type="checkbox"/>		
	990D A0 00 LDY #00	<input type="checkbox"/>		
	990F F0 25 BEQ &9936	<input type="checkbox"/>		always

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
osbyteC7 r/w spool hndl = Y	9911 A9 C7 LDA #&C7	<input type="checkbox"/>		
	9913 A2 00 LDX #&00	<input type="checkbox"/>		
	9915 F0 F6 BEQ &990D	<input type="checkbox"/>		always
osbyte03 A=outstream	9917 AA TAX	<input type="checkbox"/>		
osbyte03 X=outstream	9918 A9 03 LDA #&03	<input type="checkbox"/>		select output stream
	991A D0 1A BNE &9936	<input type="checkbox"/>		
osbyteEC chrdest&YxX	991C A9 EC LDA #&EC	<input type="checkbox"/>		r/w char dest status
	991E D0 12 BNE osbyte X=0,Y=FF	<input type="checkbox"/>		
osbyteC7 spool hdl	9920 A9 C7 LDA #&C7	<input type="checkbox"/>		r/w *SPOOL handle
	9922 D0 0E BNE osbyte X=0,Y=FF	<input type="checkbox"/>		
osbyteEA Tube?	9924 A9 EA LDA #&EA	<input type="checkbox"/>		rd Tube present flag
	9926 D0 0A BNE osbyte X=0,Y=FF	<input type="checkbox"/>		
osbyteA8 rom p.tbl	9928 A9 A8 LDA #&A8	<input type="checkbox"/>		rd addr ROM point tbl lo
	992A D0 06 BNE osbyte X=0,Y=FF	<input type="checkbox"/>		
osbyte8F serv.req	992C A9 8F LDA #&8F	<input type="checkbox"/>		issued pg.rom serv.req
	992E D0 06 BNE &9936	<input type="checkbox"/>		
osbyteFF startupopts	9930 A9 FF LDA #&FF	<input type="checkbox"/>		r/w start up opts
osbyte X=0,Y=FF	9932 A2 00 LDX #&00	<input type="checkbox"/>		
osbyte Y=FF	9934 A0 FF LDY #&FF	<input type="checkbox"/>		
	9936 4C F4 FF JMP OSBYTE	<input type="checkbox"/>		
.!boot_table	9939 4C 2E 21 42 4F 4F 54 0D L.!BOOT.	<input type="checkbox"/>		
	9941 45 2E 21 42 4F 4F 54 0D E.!BOOT.	<input type="checkbox"/>		
.vectors_table	9949 1B FF 1E FF 21 FF 24 FF .ÿ.ÿ!ÿ\$ÿ	<input type="checkbox"/>		
	9951 27 FF 2A FF 2D FF 'ÿ*ÿ-ÿ	<input type="checkbox"/>		
.extendedvectors_table	9957 7B 95 00 07 90 00 C1 90 {... .Á•	<input type="checkbox"/>		
	995F 00 AA 91 00 D0 95 00 93 .a`.D•."	<input type="checkbox"/>		
	9967 8E 00 AA 95 00 Ž.ª•.	<input type="checkbox"/>		
.fscv_table1	996C 1B 8C D3 6B D3 1D E1 DC .ĖÓkÓ.ăŮ	<input type="checkbox"/>		
	9974 97 -	<input type="checkbox"/>		
.fscv_table2	9975 89 90 87 86 87 84 8D 8D %•†††„••	<input type="checkbox"/>		
	997D 97 -	<input type="checkbox"/>		
.args_y=0_tableLo	997E F1 3C BC ñ<¼	<input type="checkbox"/>		
.args_y=0_tableHi	9981 8F 9B 95 •>•	<input type="checkbox"/>		
.finv_tablelo	9984 93 85 B4 BF C7 CF A0 A9 "...`¿Çİ ©	<input type="checkbox"/>		
.finv_tablehi	998C 87 87 97 97 97 97 97 97 ††————	<input type="checkbox"/>		
.NMI_Table1	9994 12 32 5D CD A2 BD 87 .2]İç¼†	<input type="checkbox"/>		
.NMI_Table2	999B 8D 8D 8D 8D 8D 8D 8D ••••••	<input type="checkbox"/>		
.NMI_Table3	99A2 74 54 00 0F 1A 0F 1A tT.....	<input type="checkbox"/>		
.NMI_Table4	99A9 63 43 cC	<input type="checkbox"/>		
.gbpbv_table1	99AB B7 7D 7D 65 65 CF 00 14 .}}eeİ..	<input type="checkbox"/>		
	99B3 83 f	<input type="checkbox"/>		
.gbpbv_table2	99B4 85 97 97 97 97 96 97 97 ...————	<input type="checkbox"/>		
	99BC 96 -	<input type="checkbox"/>		
.gbpbv_table3	99BD 04 02 03 06 07 04 04 04	<input type="checkbox"/>		
	99C5 04 .	<input type="checkbox"/>		
CMD_DFS	99C6 98 TYA	<input type="checkbox"/>		*HELP DFS
	99C7 A2 FF LDX #&FF	<input type="checkbox"/>		cmd table 1
	99C9 A0 0E LDY #&0E	<input type="checkbox"/>		no.of commands (14)
.prthelp	99CB 48 PHA	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	99CC 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		print "DFS 0.90"
	99CF 0D 44 46 53 20 30 2E 39 .DFS 0.9	<input type="checkbox"/>		
	99D7 30 0D 0.	<input type="checkbox"/>		
	99D9 86 B8 STX &B8	<input type="checkbox"/>		?&B8=&FF
.help_dfs_loop	99DB 20 CB 9F JSR print2spc/add100-2spc	<input type="checkbox"/>		print " ";
	99DE 20 19 9A JSR prtcmd@?B8+1	<input type="checkbox"/>		print cmd & parameters
	99E1 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		print
	99E4 88 DEY	<input type="checkbox"/>		
	99E5 D0 F4 BNE .help_dfs_loop	<input type="checkbox"/>		
	99E7 68 PLA	<input type="checkbox"/>		
	99E8 A8 TAY	<input type="checkbox"/>		restore Y
.morehelp	99E9 A2 A0 LDX #&A0	<input type="checkbox"/>		more? Eg *HELP DFS UTILS
	99EB 4C 71 86 JMP UnrecCommand@TextPointer	<input type="checkbox"/>		start cmd @ A3 in table
CMD_UTILS	99EE 98 TYA	<input type="checkbox"/>		*HELP UTILS
	99EF A2 74 LDX #&74	<input type="checkbox"/>		cmd table 2
	99F1 A0 05 LDY #&05	<input type="checkbox"/>		5 commands
	99F3 D0 D6 BNE .prthelp	<input type="checkbox"/>		always
CMD_NOTHELPTBL	99F5 20 BF 86 JSR GoGSINIT(terminator=spc/cr/)	<input type="checkbox"/>		
	99F8 F0 60 BEQ .prtparamexit	<input type="checkbox"/>		null str
.cmd_nothelptlb_loop	99FA 20 C5 FF JSR GSREAD	<input type="checkbox"/>		
	99FD 90 FB BCC .cmd_nothelptlb_loop	<input type="checkbox"/>		
	99FF B0 E8 BCS .morehelp	<input type="checkbox"/>		end of str
initparam (syntax error if none)	9A01 20 BF 86 JSR GoGSINIT(terminator=spc/cr/)	<input type="checkbox"/>		(if no params then syntax error)
	9A04 D0 54 BNE .prtparamexit	<input type="checkbox"/>		if not null string
.syntaxerr	9A06 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	9A09 DC 53 79 6E 74 61 78 3A ÜSyntax:	<input type="checkbox"/>		Syntax error (DC)
	9A11 20	<input type="checkbox"/>		
	9A12 EA NOP	<input type="checkbox"/>		
	9A13 20 19 9A JSR prtcmd@?B8+1	<input type="checkbox"/>		add command syntax
	9A16 4C 8A 80 JMP prtstr_BRK	<input type="checkbox"/>		force error
prtcmd@?B8+1	9A19 A6 B8 LDX &B8	<input type="checkbox"/>		
.prtcmdloop	9A1B E8 INX	<input type="checkbox"/>		
	9A1C BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		
	9A1F 30 06 BMI &9A27	<input type="checkbox"/>		
	9A21 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	9A24 4C 1B 9A JMP .prtcmdloop	<input type="checkbox"/>		
	9A27 E8 INX	<input type="checkbox"/>		skip address
	9A28 E8 INX	<input type="checkbox"/>		
	9A29 86 B8 STX &B8	<input type="checkbox"/>		ready for next time
	9A2B BD B8 85 LDA .cmdlist,X	<input type="checkbox"/>		paramater code
	9A2E 20 34 9A JSR prtparam	<input type="checkbox"/>		1st parameter
	9A31 20 05 82 JSR .A>>4	<input type="checkbox"/>		2nd parameter
prtparam	9A34 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9A37 29 0F AND #&0F	<input type="checkbox"/>		
	9A39 F0 1F BEQ .prtparamexit	<input type="checkbox"/>		no parameter
	9A3B A8 TAY	<input type="checkbox"/>		Y=parameter no.
	9A3C A9 20 LDA #&20	<input type="checkbox"/>		
	9A3E 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		print space
	9A41 A2 00 LDX #&00	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
.prtparam.2	9A43 BD 5B 9A LDA .paramertable,X	<input type="checkbox"/>		find parameter in table
	9A46 F0 03 BEQ .prtparam.4	<input type="checkbox"/>		
.prtparam.3	9A48 E8 INX	<input type="checkbox"/>		
	9A49 D0 F8 BNE .prtparam.2	<input type="checkbox"/>		
.prtparam.4	9A4B 88 DEY	<input type="checkbox"/>		
	9A4C D0 FA BNE .prtparam.3	<input type="checkbox"/>		
.prtparamloop4	9A4E E8 INX	<input type="checkbox"/>		print parameter
	9A4F BD 5B 9A LDA .paramertable,X	<input type="checkbox"/>		
	9A52 F0 06 BEQ .prtparamexit	<input type="checkbox"/>		0 terminator
	9A54 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	9A57 4C 4E 9A JMP .prtparamloop4	<input type="checkbox"/>		
.prtparamexit	9A5A 60 RTS	<input type="checkbox"/>		
.paramertable	9A5B 00 3C 66 73 70 3E 00 3C .<fsp>.<	<input type="checkbox"/>		
	9A63 61 66 73 70 3E 00 28 4C afsp>.(L	<input type="checkbox"/>		
	9A6B 29 00 3C 73 72 63 20 64).<src d	<input type="checkbox"/>		
	9A73 72 76 3E 00 3C 64 65 73 rv>.<des	<input type="checkbox"/>		
	9A7B 74 20 64 72 76 3E 00 3C t drv>.<	<input type="checkbox"/>		
	9A83 64 65 73 74 20 64 72 76 dest drv	<input type="checkbox"/>		
	9A8B 3E 20 3C 61 66 73 70 3E > <afsp>	<input type="checkbox"/>		
	9A93 00 3C 6F 6C 64 20 66 73 .<old fs	<input type="checkbox"/>		
	9A9B 70 3E 00 3C 6E 65 77 20 p>.<new	<input type="checkbox"/>		
	9AA3 66 73 70 3E 00 28 3C 64 fsp>.(<d	<input type="checkbox"/>		
	9AAB 69 72 3E 29 00 28 3C 64 ir>).(<d	<input type="checkbox"/>		
	9AB3 72 76 3E 29 00 3C 74 69 rv>).<ti	<input type="checkbox"/>		
	9ABB 74 6C 65 3E 00 tle>.	<input type="checkbox"/>		
CMD_COMPACT	9AC0 20 58 83 JSR GetDriveNo_withInit	<input type="checkbox"/>		
.msgCOMPACTINGDRIVE	9AC3 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9AC6 43 6F 6D 70 61 63 74 69 Compacti	<input type="checkbox"/>		
	9ACE 6E 67 20 64 72 69 76 65 ng drive	<input type="checkbox"/>		
	9AD6 20	<input type="checkbox"/>		
	9AD7 8D D2 10 STA &10D2	<input type="checkbox"/>		
	9ADA 8D D3 10 STA &10D3	<input type="checkbox"/>		
	9ADD 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	9AE0 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	9AE3 A0 00 LDY #&00	<input type="checkbox"/>		
	9AE5 20 05 8E JSR .updatecat&filetomedia Y=inthndl	<input type="checkbox"/>		
	9AE8 20 79 98 JSR CalcRAM(HIMEM-PAGE+1)	<input type="checkbox"/>		
	9AEB 20 47 83 JSR LoadCurDrvCat (preserve AX Y)	<input type="checkbox"/>		load cat
	9AEE AC 05 0F LDY FilesX8	<input type="checkbox"/>		
	9AF1 84 CC STY &CC	<input type="checkbox"/>		
	9AF3 A9 02 LDA #&02	<input type="checkbox"/>		
	9AF5 85 CA STA &CA	<input type="checkbox"/>		
	9AF7 A9 00 LDA #&00	<input type="checkbox"/>		
	9AF9 85 CB STA &CB	<input type="checkbox"/>		
.compact loop	9AFB A4 CC LDY &CC	<input type="checkbox"/>		
	9AFD 20 19 82 JSR .Y=Y-8	<input type="checkbox"/>		
	9B00 C0 F8 CPY #&F8	<input type="checkbox"/>		
	9B02 D0 3C BNE .compact_movefile	<input type="checkbox"/>		
.msgDISKCOMPACTED	9B04 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9B07 44 69 73 6B 20 63 6F 6D Disk com	<input type="checkbox"/>		
	9B0F 70 61 63 74 65 64 20 pacted	<input type="checkbox"/>		
	9B16 EA NOP	<input type="checkbox"/>		
	9B17 38 SEC	<input type="checkbox"/>		
	9B18 AD 07 0F LDA &0F07	<input type="checkbox"/>		
	9B1B E5 CA SBC &CA	<input type="checkbox"/>		
	9B1D 48 PHA	<input type="checkbox"/>		
	9B1E AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9B21 29 03 AND #&03	<input type="checkbox"/>		
	9B23 E5 CB SBC &CB	<input type="checkbox"/>		
	9B25 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	9B28 68 PLA	<input type="checkbox"/>		
	9B29 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
.msgFREESECTORS	9B2C 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9B2F 20 66 72 65 65 20 73 65 free se	<input type="checkbox"/>		
	9B37 63 74 6F 72 73 0D ctors.	<input type="checkbox"/>		
.argsv_returncurfilesystem	9B3D A9 04 LDA #&04	<input type="checkbox"/>		
	9B3F 60 RTS	<input type="checkbox"/>		finished compact
.compact_movefile	9B40 84 CC STY &CC	<input type="checkbox"/>		
	9B42 20 FC 82 JSR prt_InfoLineif?10c7>=&80,Y=o/set	<input type="checkbox"/>		
	9B45 A4 CC LDY &CC	<input type="checkbox"/>		
	9B47 B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		
	9B4A 29 30 AND #&30	<input type="checkbox"/>		
	9B4C 19 0D 0F ORA &0F0D,Y	<input type="checkbox"/>		
	9B4F 19 0C 0F ORA &0F0C,Y	<input type="checkbox"/>		
	9B52 F0 5E BEQ .9bb2	<input type="checkbox"/>	BRX .9bb5	
	9B54 A9 00 LDA #&00	<input type="checkbox"/>		
	9B56 85 BE STA &BE	<input type="checkbox"/>		
	9B58 85 C2 STA &C2	<input type="checkbox"/>		
	9B5A A9 FF LDA #&FF	<input type="checkbox"/>		
	9B5C 18 CLC	<input type="checkbox"/>		
	9B5D 79 0C 0F ADC &0F0C,Y	<input type="checkbox"/>		
	9B60 A9 00 LDA #&00	<input type="checkbox"/>		
	9B62 79 0D 0F ADC &0F0D,Y	<input type="checkbox"/>		
	9B65 85 C6 STA &C6	<input type="checkbox"/>		
	9B67 B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		
	9B6A 08 PHP	<input type="checkbox"/>		
	9B6B 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	9B6E 28 PLP	<input type="checkbox"/>		
	9B6F 69 00 ADC #&00	<input type="checkbox"/>		
	9B71 85 C7 STA FilenameParam	<input type="checkbox"/>		
	9B73 B9 0F 0F LDA &0F0F,Y	<input type="checkbox"/>		
	9B76 85 C8 STA &C8	<input type="checkbox"/>		
	9B78 B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		
	9B7B 29 03 AND #&03	<input type="checkbox"/>		
	9B7D 85 C9 STA &C9	<input type="checkbox"/>		
	9B7F C5 CB CMP &CB	<input type="checkbox"/>		
	9B81 D0 14 BNE .9b97	<input type="checkbox"/>		
	9B83 A5 C8 LDA &C8	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9B85 C5 CA CMP &CA	<input type="checkbox"/>		
	9B87 D0 0E BNE .9b97	<input type="checkbox"/>		
	9B89 18 CLC	<input type="checkbox"/>		
	9B8A 65 C6 ADC &C6	<input type="checkbox"/>		
	9B8C 85 CA STA &CA	<input type="checkbox"/>		
	9B8E A5 CB LDA &CB	<input type="checkbox"/>		
	9B90 65 C7 ADC FilenameParam	<input type="checkbox"/>		
	9B92 85 CB STA &CB	<input type="checkbox"/>		
	9B94 4C B5 9B JMP .9bb5	<input type="checkbox"/>		
.9b97	9B97 A5 CA LDA &CA	<input type="checkbox"/>		
	9B99 99 0F 0F STA &0F0F,Y	<input type="checkbox"/>		
	9B9C B9 0E 0F LDA &0F0E,Y	<input type="checkbox"/>		
	9B9F 29 FC AND #&FC	<input type="checkbox"/>		
	9BA1 05 CB ORA &CB	<input type="checkbox"/>		
	9BA3 99 0E 0F STA &0F0E,Y	<input type="checkbox"/>		
	9BA6 A9 00 LDA #&00	<input type="checkbox"/>		
	9BA8 85 A8 STA &A8	<input type="checkbox"/>		move only!
	9BAA 85 A9 STA &A9	<input type="checkbox"/>		(doesn't write cat)
	9BAC 20 06 9E JSR .movefilefromdisklto2	<input type="checkbox"/>	JSR SaveCatToDisk	calls savememblock!
	9BAF 20 B4 8A JSR SaveCatToDisk	<input type="checkbox"/>	JSR .movefilefromdisklto2	cat corrupted?
.9bb2	9BB2 20 E7 98 JSR RELEASE_NMI_WaitFDChusy (A=bitmask)(AXY preserved)	<input type="checkbox"/>	JSR LoadCurDrvCat (preserve AXY)	
.9bb5	9BB5 A4 CC LDY &CC	<input type="checkbox"/>		
	9BB7 20 01 83 JSR prt_InfoLine(Y=file offset)	<input type="checkbox"/>		
	9BBA 4C FB 9A JMP .compact loop	<input type="checkbox"/>		
ENABLEDCMD	9BBD 2C C8 10 BIT CMDEnabledIf1	<input type="checkbox"/>		
	9BC0 10 75 BPL &9C37	<input type="checkbox"/>		
.errNOTENABLED	9BC2 20 33 80 JSR Brk100_erno (term.=0 causes BRK)	<input type="checkbox"/>		
	9BC5 BD 4E 6F 74 20 65 6E 61 %Not ena	<input type="checkbox"/>		
	9BCD 62 6C 65 64 00 bled.	<input type="checkbox"/>		
.GetDrives(->10D2&3)&CalcRam&GiveMsg	9BD2 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	9BD5 D0 03 BNE &9BDA	<input type="checkbox"/>		
	9BD7 4C 06 9A JMP .syntaxerr	<input type="checkbox"/>		
	9BDA 20 5D 83 JSR GetDriveNo (A=DrvNo,C=0,XY preserved)	<input type="checkbox"/>		
	9BDD 8D D2 10 STA &10D2	<input type="checkbox"/>		
	9BE0 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	9BE3 F0 F2 BEQ &9BD7	<input type="checkbox"/>		
	9BE5 20 5D 83 JSR GetDriveNo (A=DrvNo,C=0,XY preserved)	<input type="checkbox"/>		
	9BE8 8D D3 10 STA &10D3	<input type="checkbox"/>		
	9BEB 98 TYA	<input type="checkbox"/>		
	9BEC 48 PHA	<input type="checkbox"/>		
	9BED A9 00 LDA #&00	<input type="checkbox"/>		
	9BEF 85 A9 STA &A9	<input type="checkbox"/>		
	9BF1 AD D3 10 LDA &10D3	<input type="checkbox"/>		
	9BF4 CD D2 10 CMP &10D2	<input type="checkbox"/>		
	9BF7 D0 06 BNE &9BFF	<input type="checkbox"/>		
	9BF9 A9 FF LDA #&FF	<input type="checkbox"/>		
	9BFB 85 A9 STA &A9	<input type="checkbox"/>		
	9BFD 85 AA STA &AA	<input type="checkbox"/>		
	9BFF 20 79 98 JSR CalcRAM(HIMEM-PAGE+1)	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
.msgCOPYINGFROMDRIVE	9C02 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C05 43 6F 70 79 69 6E 67 20 Copying	<input type="checkbox"/>		
	9C0D 66 72 6F 6D 20 64 72 69 from dri	<input type="checkbox"/>		
	9C15 76 65 20 ve	<input type="checkbox"/>		
	9C18 AD D2 10 LDA &10D2	<input type="checkbox"/>		
	9C1B 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
.msgTODRIVE	9C1E 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C21 20 74 6F 20 64 72 69 76 to driv	<input type="checkbox"/>		
	9C29 65 20 e	<input type="checkbox"/>		
	9C2B AD D3 10 LDA &10D3	<input type="checkbox"/>		
	9C2E 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	9C31 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	9C34 68 PLA	<input type="checkbox"/>		
	9C35 A8 TAY	<input type="checkbox"/>		
	9C36 18 CLC	<input type="checkbox"/>		
	9C37 60 RTS	<input type="checkbox"/>		
.insertdisk_2	9C38 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9C3B 24 A9 BIT &A9	<input type="checkbox"/>		
	9C3D 10 0B BPL .insertdisk_dontprompt	<input type="checkbox"/>		
	9C3F A9 00 LDA #&00	<input type="checkbox"/>		
	9C41 F0 0A BEQ .insertdisk_checkoptwithA	<input type="checkbox"/>		
.insertdisk_checkopt2	9C43 20 E1 83 JSR rememberAXY	<input type="checkbox"/>		
	9C46 24 A9 BIT &A9	<input type="checkbox"/>		
	9C48 30 01 BMI .insertdisk_checkopt	<input type="checkbox"/>		
.insertdisk_dontprompt	9C4A 60 RTS	<input type="checkbox"/>		
.insertdisk_checkopt	9C4B A9 80 LDA #&80	<input type="checkbox"/>		
.insertdisk_checkoptwithA	9C4D C5 AA CMP &AA	<input type="checkbox"/>		
	9C4F F0 F9 BEQ .insertdisk_dontprompt	<input type="checkbox"/>		
.insertdisk A=opt	9C51 85 AA STA &AA	<input type="checkbox"/>		
.msgINSERT	9C53 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C56 49 6E 73 65 72 74 20 Insert	<input type="checkbox"/>		
	9C5D EA NOP	<input type="checkbox"/>		
	9C5E 24 AA BIT &AA	<input type="checkbox"/>		
	9C60 30 0B BMI .msgDESTINATION	<input type="checkbox"/>		
.msgSOURCE	9C62 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C65 73 6F 75 72 63 65 source	<input type="checkbox"/>		
	9C6B 90 0F BCC .msgDISKANDHITAKEY	<input type="checkbox"/>		
.msgDESTINATION	9C6D 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C70 64 65 73 74 69 6E 61 74 destinat	<input type="checkbox"/>		
	9C78 69 6F 6E ion	<input type="checkbox"/>		
	9C7B EA NOP	<input type="checkbox"/>		
.msgDISKANDHITAKEY	9C7C 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9C7F 20 64 69 73 6B 20 61 6E disk an	<input type="checkbox"/>		
	9C87 64 20 68 69 74 20 61 20 d hit a	<input type="checkbox"/>		
	9C8F 6B 65 79 key	<input type="checkbox"/>		
	9C92 EA NOP	<input type="checkbox"/>		
	9C93 20 06 99 JSR osbyte0F flush.in.buf (rem.AXY)	<input type="checkbox"/>		
	9C96 20 E0 FF JSR OSRDCH	<input type="checkbox"/>		
	9C99 B0 19 BCS .confirmyn_error	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9C9B 4C 9A 9F JMP prtNewLine (A preserved)	<input type="checkbox"/>		
ConfirmYN (Z=1 if Yes)	9C9E 20 06 99 JSR osbyte0F flush.in.buf (rem.AXY)	<input type="checkbox"/>		
	9CA1 20 E0 FF JSR OSRDCH	<input type="checkbox"/>		
	9CA4 B0 0E BCS .confirmyn_error	<input type="checkbox"/>		Osrdch error
	9CA6 29 5F AND #&5F	<input type="checkbox"/>		lower case
	9CA8 C9 59 CMP #&59	<input type="checkbox"/>		"Y"
	9CAA 08 PHP	<input type="checkbox"/>		
	9CAB F0 02 BEQ .confirmyn_yes	<input type="checkbox"/>		
	9CAD A9 4E LDA #&4E	<input type="checkbox"/>		"N"
.confirmyn_yes	9CAF 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	9CB2 28 PLP	<input type="checkbox"/>		
	9CB3 60 RTS	<input type="checkbox"/>		
.confirmyn_error	9CB4 A6 B6 LDX &B6	<input type="checkbox"/>		
	9CB6 9A TXS	<input type="checkbox"/>		
	9CB7 60 RTS	<input type="checkbox"/>		
.errDiskFull2	9CB8 4C 58 89 JMP .errDISKFULL	<input type="checkbox"/>		
CMD_BACKUP	9CBB 20 BD 9B JSR ENABLEDCMD	<input type="checkbox"/>		
	9CBE 20 D2 9B JSR .GetDrives(-->10D2&3)&CalcRam&GiveMsg	<input type="checkbox"/>		
	9CC1 A9 00 LDA #&00	<input type="checkbox"/>		
	9CC3 85 C9 STA &C9	<input type="checkbox"/>		
	9CC5 85 CB STA &CB	<input type="checkbox"/>		
	9CC7 85 CA STA &CA	<input type="checkbox"/>		
	9CC9 85 C8 STA &C8	<input type="checkbox"/>		
	9CCB 85 A8 STA &A8	<input type="checkbox"/>		
	9CCD 20 38 9C JSR .insertdisk_2	<input type="checkbox"/>		
	9CD0 AD D2 10 LDA &10D2	<input type="checkbox"/>		
	9CD3 85 CF STA CurrentDrv	<input type="checkbox"/>		
	9CD5 20 EB 8A JSR LoadCurDrvCatalog	<input type="checkbox"/>	JSR mmcloadcurdrvcat	load source cat
	9CD8 AD 07 0F LDA &0F07	<input type="checkbox"/>		
	9CDB 85 C6 STA &C6	<input type="checkbox"/>		
	9CDD AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9CE0 29 03 AND #&03	<input type="checkbox"/>		
	9CE2 85 C7 STA FilenameParam	<input type="checkbox"/>		
	9CE4 AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9CE7 29 F0 AND #&F0	<input type="checkbox"/>		
	9CE9 8D D8 10 STA &10D8	<input type="checkbox"/>		
	9CEC 20 43 9C JSR .insertdisk_checkopt2	<input type="checkbox"/>		
	9CEF AD D3 10 LDA &10D3	<input type="checkbox"/>		
	9CF2 85 CF STA CurrentDrv	<input type="checkbox"/>		
	9CF4 20 EB 8A JSR LoadCurDrvCatalog	<input type="checkbox"/>	JSR mmcloadcurdrvcat	load target cat
	9CF7 AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9CFA 29 03 AND #&03	<input type="checkbox"/>		
	9CFC C5 C7 CMP FilenameParam	<input type="checkbox"/>		
	9CFE 90 B8 BCC .errDiskFull2	<input type="checkbox"/>		
	9D00 D0 07 BNE .9d09	<input type="checkbox"/>		
	9D02 AD 07 0F LDA &0F07	<input type="checkbox"/>		
	9D05 C5 C6 CMP &C6	<input type="checkbox"/>		
	9D07 90 AF BCC .errDiskFull2	<input type="checkbox"/>		
.9d09	9D09 20 06 9E JSR .movefilefromdisk1to2	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9D0C AD 06 0F LDA &0F06	<input type="checkbox"/>		
	9D0F 48 PHA	<input type="checkbox"/>		
	9D10 AD 07 0F LDA &0F07	<input type="checkbox"/>		
	9D13 48 PHA	<input type="checkbox"/>		
	9D14 20 EB 8A JSR LoadCurDrvCatalog	<input type="checkbox"/>	JSR mmcloadcurdrvcat	load cat
	9D17 68 PLA	<input type="checkbox"/>		
	9D18 8D 07 0F STA &0F07	<input type="checkbox"/>		
	9D1B 68 PLA	<input type="checkbox"/>		
	9D1C 29 0F AND #&0F	<input type="checkbox"/>		
	9D1E 0D D8 10 ORA &10D8	<input type="checkbox"/>		
	9D21 8D 06 0F STA &0F06	<input type="checkbox"/>		
	9D24 4C B4 8A JMP SaveCatToDisk	<input type="checkbox"/>		save cat
CMD_COPY	9D27 20 5B 82 JSR parameter_afsp	<input type="checkbox"/>		
	9D2A 20 D2 9B JSR .GetDrives(->10D2&3)&CalcRam&GiveMsg	<input type="checkbox"/>		
	9D2D 20 BF 86 JSR GoGSINIT(terminator=spc/cr/")	<input type="checkbox"/>		
	9D30 D0 03 BNE &9D35	<input type="checkbox"/>		
	9D32 4C 06 9A JMP .syntaxerr	<input type="checkbox"/>		
	9D35 20 FE 80 JSR read_(a)fsp@TextPointer (ret.Y=Tpoffset nonblank)	<input type="checkbox"/>		
	9D38 20 38 9C JSR .insertdisk_2	<input type="checkbox"/>		
	9D3B AD D2 10 LDA &10D2	<input type="checkbox"/>		
	9D3E 20 7E 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	9D41 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	9D44 B0 03 BCS &9D49	<input type="checkbox"/>		
	9D46 4C 76 82 JMP err_FILENOTFOUND	<input type="checkbox"/>		
	9D49 84 AB STY &AB	<input type="checkbox"/>		
	9D4B 20 01 83 JSR prt_InfoLine(Y=file offset)	<input type="checkbox"/>		
	9D4E A2 00 LDX #&00	<input type="checkbox"/>		
.9d50loop	9D50 B5 C7 LDA FilenameParam,X	<input type="checkbox"/>		
	9D52 9D 58 10 STA &1058,X	<input type="checkbox"/>		??10ok
	9D55 B9 08 0E LDA &0E08,Y	<input type="checkbox"/>		
	9D58 95 C7 STA FilenameParam,X	<input type="checkbox"/>		
	9D5A 9D 50 10 STA &1050,X	<input type="checkbox"/>		??10ok
	9D5D B9 08 0F LDA &0F08,Y	<input type="checkbox"/>		
	9D60 95 BD STA &BD,X	<input type="checkbox"/>		
	9D62 9D 47 10 STA &1047,X	<input type="checkbox"/>		??10ok
	9D65 E8 INX	<input type="checkbox"/>		
	9D66 C8 INY	<input type="checkbox"/>		
	9D67 E0 08 CPX #&08	<input type="checkbox"/>		
	9D69 D0 E5 BNE .9d50loop	<input type="checkbox"/>		
	9D6B A5 C3 LDA &C3	<input type="checkbox"/>		
	9D6D 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	9D70 85 C5 STA &C5	<input type="checkbox"/>		
	9D72 A5 C1 LDA &C1	<input type="checkbox"/>		
	9D74 18 CLC	<input type="checkbox"/>		
	9D75 69 FF ADC #&FF	<input type="checkbox"/>		
	9D77 A5 C2 LDA &C2	<input type="checkbox"/>		
	9D79 69 00 ADC #&00	<input type="checkbox"/>		
	9D7B 85 C6 STA &C6	<input type="checkbox"/>		
	9D7D A5 C5 LDA &C5	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9D7F 69 00 ADC #&00	<input type="checkbox"/>		
	9D81 85 C7 STA FilenameParam	<input type="checkbox"/>		
	9D83 AD 4E 10 LDA &104E	<input type="checkbox"/>		
	9D86 85 C8 STA &C8	<input type="checkbox"/>		
	9D88 AD 4D 10 LDA &104D	<input type="checkbox"/>		
	9D8B 29 03 AND #&03	<input type="checkbox"/>		
	9D8D 85 C9 STA &C9	<input type="checkbox"/>		
	9D8F A9 FF LDA #&FF	<input type="checkbox"/>		
	9D91 85 A8 STA &A8	<input type="checkbox"/>		creat file on target
	9D93 20 06 9E JSR .movefilefromdisk1to2	<input type="checkbox"/>		
	9D96 20 38 9C JSR .insertdisk_2	<input type="checkbox"/>		
	9D99 AD D2 10 LDA &10D2	<input type="checkbox"/>		
	9D9C 20 7B 87 JSR SetCurrentDrive	<input type="checkbox"/>		
	9D9F 20 47 83 JSR LoadCurDrvCat (preserve AXY)	<input type="checkbox"/>		load cat
	9DA2 A2 07 LDX #&07	<input type="checkbox"/>		
	9DA4 BD 58 10 LDA &1058,X	<input type="checkbox"/>		??10ok
	9DA7 95 C7 STA FilenameParam,X	<input type="checkbox"/>		
	9DA9 CA DEX	<input type="checkbox"/>		
	9DAA 10 F8 BPL &9DA4	<input type="checkbox"/>		
	9DAC A4 AB LDY &AB	<input type="checkbox"/>		
	9DAE 8C CE 10 STY &10CE	<input type="checkbox"/>		
	9DB1 20 9D 82 JSR get_cat_nextentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	9DB4 B0 93 BCS &9D49	<input type="checkbox"/>		
	9DB6 60 RTS	<input type="checkbox"/>		
.createcatfileontarget	9DB7 20 F5 9D JSR .setvars	<input type="checkbox"/>		
	9DBA 20 43 9C JSR .insertdisk_checkopt2	<input type="checkbox"/>		
	9DBD AD D3 10 LDA &10D3	<input type="checkbox"/>		target drive
	9DC0 85 CF STA CurrentDrv	<input type="checkbox"/>		
	9DC2 A5 CE LDA DirectoryParam	<input type="checkbox"/>		
	9DC4 48 PHA	<input type="checkbox"/>		
	9DC5 20 47 83 JSR LoadCurDrvCat (preserve AXY)	<input type="checkbox"/>		load cat
	9DC8 20 96 82 JSR get_cat_firstentry(return:C=1=found,Y=offset)	<input type="checkbox"/>		
	9DCB 90 03 BCC &9DD0	<input type="checkbox"/>		
	9DCD 20 D1 82 JSR DeleteCatEntry Y=FileOffset	<input type="checkbox"/>		delete file
	9DD0 68 PLA	<input type="checkbox"/>		
	9DD1 85 CE STA DirectoryParam	<input type="checkbox"/>		
	9DD3 20 3F 8A JSR LoadAddrHi2(?C4=mixed byte : if Host=FFFF)	<input type="checkbox"/>		
	9DD6 20 56 8A JSR ExecAddrHi2(?C4=mixed byte)	<input type="checkbox"/>		
	9DD9 A5 C4 LDA &C4	<input type="checkbox"/>		
	9DDB 20 FD 81 JSR .A>>4 and 3	<input type="checkbox"/>		
	9DDE 85 C6 STA &C6	<input type="checkbox"/>		
	9DE0 20 9D 89 JSR .createfile_2	<input type="checkbox"/>		create file cat entry
	9DE3 A5 C4 LDA &C4	<input type="checkbox"/>		-> saves cat
	9DE5 29 03 AND #&03	<input type="checkbox"/>		
	9DE7 48 PHA	<input type="checkbox"/>		
	9DE8 A5 C5 LDA &C5	<input type="checkbox"/>		
	9DEA 48 PHA	<input type="checkbox"/>		
	9DEB 20 F5 9D JSR .setvars	<input type="checkbox"/>		
	9DEE 68 PLA	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9DEF 85 CA STA &CA	<input type="checkbox"/>		
	9DF1 68 PLA	<input type="checkbox"/>		
	9DF2 85 CB STA &CB	<input type="checkbox"/>		
	9DF4 60 RTS	<input type="checkbox"/>		
.setvars	9DF5 A2 11 LDX #&11	<input type="checkbox"/>		
.setvarsloop	9DF7 BD 45 10 LDA &1045,X	<input type="checkbox"/>		??10ok
	9DFA B4 BC LDY TextPointer_dfs,X	<input type="checkbox"/>		
	9DFC 95 BC STA TextPointer_dfs,X	<input type="checkbox"/>		
	9DFE 98 TYA	<input type="checkbox"/>		
	9DFF 9D 45 10 STA &1045,X	<input type="checkbox"/>		??10ok
	9E02 CA DEX	<input type="checkbox"/>		
	9E03 10 F2 BPL .setvarsloop	<input type="checkbox"/>		
	9E05 60 RTS	<input type="checkbox"/>		
.movefilefromdisklto2	9E06 20 D1 8B JSR set_1074/75=&FFFF (AXY preserved)	<input type="checkbox"/>	JSR mmcset7475	moves/copies
	9E09 A9 00 LDA #&00	<input type="checkbox"/>		file
	9E0B 85 BE STA &BE	<input type="checkbox"/>		&A8>=&80 create file
	9E0D 85 C2 STA &C2	<input type="checkbox"/>		
.movefileloop	9E0F A5 C6 LDA &C6	<input type="checkbox"/>		
	9E11 A8 TAY	<input type="checkbox"/>		
	9E12 CD D1 10 CMP Himem-Page	<input type="checkbox"/>		
	9E15 A5 C7 LDA FilenameParam	<input type="checkbox"/>		
	9E17 E9 00 SBC #&00	<input type="checkbox"/>		
	9E19 90 03 BCC &9ELE	<input type="checkbox"/>		
	9E1B AC D1 10 LDY Himem-Page	<input type="checkbox"/>		
	9E1E 84 C3 STY &C3	<input type="checkbox"/>		
	9E20 A5 C8 LDA &C8	<input type="checkbox"/>		
	9E22 85 C5 STA &C5	<input type="checkbox"/>		
	9E24 A5 C9 LDA &C9	<input type="checkbox"/>		
	9E26 85 C4 STA &C4	<input type="checkbox"/>		
	9E28 AD D0 10 LDA Page	<input type="checkbox"/>		
	9E2B 85 BF STA &BF	<input type="checkbox"/>		
	9E2D AD D2 10 LDA &10D2	<input type="checkbox"/>		source drive
	9E30 85 CF STA CurrentDrv	<input type="checkbox"/>		
	9E32 20 38 9C JSR .insertdisk_2	<input type="checkbox"/>		
	9E35 20 9E 8B JSR FDC_DriveReady/Reset	<input type="checkbox"/>	JSR mmcsetFDCDRV	
	9E38 20 C6 87 JSR .loadmemblock	<input type="checkbox"/>		get block
	9E3B AD D3 10 LDA &10D3	<input type="checkbox"/>		target drive
	9E3E 85 CF STA CurrentDrv	<input type="checkbox"/>		
	9E40 24 A8 BIT &A8	<input type="checkbox"/>		
	9E42 10 07 BPL .movefile_skipcreatecatentry	<input type="checkbox"/>		
	9E44 20 B7 9D JSR .createcatfileontarget	<input type="checkbox"/>		loads & saves
	9E47 A9 00 LDA #&00	<input type="checkbox"/>		target cat
	9E49 85 A8 STA &A8	<input type="checkbox"/>		(first block only)
.movefile_skipcreatecatentry	9E4B A5 CA LDA &CA	<input type="checkbox"/>		
	9E4D 85 C5 STA &C5	<input type="checkbox"/>		
	9E4F A5 CB LDA &CB	<input type="checkbox"/>		
	9E51 85 C4 STA &C4	<input type="checkbox"/>		
	9E53 AD D0 10 LDA Page	<input type="checkbox"/>		
	9E56 85 BF STA &BF	<input type="checkbox"/>		

Acorn DFS 0.9 - Disassembly & new instructions (version of 18 October 2006)

Label	Code	Zero	New Instruction	Comment
	9E58 20 43 9C JSR .insertdisk_checkopt2	<input type="checkbox"/>		
	9E5B 20 9E 8B JSR FDC_DriveReady/Reset	<input type="checkbox"/>	JSR mmcsetFDCDRV	
	9E5E 20 8F 87 JSR .savememblock	<input type="checkbox"/>		put block
	9E61 A5 C3 LDA &C3	<input type="checkbox"/>		poss buffering req'd
	9E63 18 CLC	<input type="checkbox"/>		
	9E64 65 CA ADC &CA	<input type="checkbox"/>		
	9E66 85 CA STA &CA	<input type="checkbox"/>		
	9E68 90 02 BCC &9E6C	<input type="checkbox"/>		
	9E6A E6 CB INC &CB	<input type="checkbox"/>		
	9E6C A5 C3 LDA &C3	<input type="checkbox"/>		
	9E6E 18 CLC	<input type="checkbox"/>		
	9E6F 65 C8 ADC &C8	<input type="checkbox"/>		
	9E71 85 C8 STA &C8	<input type="checkbox"/>		
	9E73 90 02 BCC &9E77	<input type="checkbox"/>		
	9E75 E6 C9 INC &C9	<input type="checkbox"/>		
	9E77 38 SEC	<input type="checkbox"/>		
	9E78 A5 C6 LDA &C6	<input type="checkbox"/>		
	9E7A E5 C3 SBC &C3	<input type="checkbox"/>		
	9E7C 85 C6 STA &C6	<input type="checkbox"/>		
	9E7E B0 02 BCS &9E82	<input type="checkbox"/>		
	9E80 C6 C7 DEC FilenameParam	<input type="checkbox"/>		
	9E82 05 C7 ORA FilenameParam	<input type="checkbox"/>		
	9E84 D0 89 BNE .movefileloop	<input type="checkbox"/>		
	9E86 60 RTS	<input type="checkbox"/>		
CMD_TYPE	9E87 20 D7 9F JSR Ltrim@TextPointer+Y	<input type="checkbox"/>		
	9E8A A9 00 LDA #&00	<input type="checkbox"/>		
	9E8C F0 05 BEQ &9E93	<input type="checkbox"/>		
CMD_LIST	9E8E 20 D7 9F JSR Ltrim@TextPointer+Y	<input type="checkbox"/>		
	9E91 A9 FF LDA #&FF	<input type="checkbox"/>		
	9E93 85 AB STA &AB	<input type="checkbox"/>		
	9E95 A9 C0 LDA #&C0	<input type="checkbox"/>		
	9E97 20 CE FF JSR OSFIND	<input type="checkbox"/>		
	9E9A A8 TAY	<input type="checkbox"/>		
	9E9B A9 0D LDA #&0D	<input type="checkbox"/>		
	9E9D C0 00 CPY #&00	<input type="checkbox"/>		
	9E9F D0 1E BNE &9EBF	<input type="checkbox"/>		
. jmp_FILENOTFOUND	9EA1 4C 76 82 JMP err_FILENOTFOUND	<input type="checkbox"/>		
	9EA4 20 D7 FF JSR &FFD7	<input type="checkbox"/>		
	9EA7 B0 1E BCS &9EC7	<input type="checkbox"/>		
	9EA9 C9 0A CMP #&0A	<input type="checkbox"/>		
	9EAB F0 F7 BEQ &9EA4	<input type="checkbox"/>		
	9EAD 28 PLP	<input type="checkbox"/>		
	9EAE D0 08 BNE &9EB8	<input type="checkbox"/>		
	9EB0 48 PHA	<input type="checkbox"/>		
	9EB1 20 A2 9F JSR .9fa2	<input type="checkbox"/>		
	9EB4 20 CE 9F JSR prtspc/add100-spc	<input type="checkbox"/>		
	9EB7 68 PLA	<input type="checkbox"/>		
	9EB8 20 E3 FF JSR OSASCI	<input type="checkbox"/>		
	9EBB 24 FF BIT &FF	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9EBD 30 09 BMI &9EC8	<input type="checkbox"/>		
	9EBF 25 AB AND &AB	<input type="checkbox"/>		
	9EC1 C9 0D CMP #&0D	<input type="checkbox"/>		
	9EC3 08 PHP	<input type="checkbox"/>		
	9EC4 4C A4 9E JMP &9EA4	<input type="checkbox"/>		
	9EC7 28 PLP	<input type="checkbox"/>		
	9EC8 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	9ECB A9 00 LDA #&00	<input type="checkbox"/>		Close file
	9ECD 4C CE FF JMP OSFIND	<input type="checkbox"/>		Y=hndl (0=all)
CMD_DUMP	9ED0 20 D7 9F JSR Ltrim@TextPointer+Y	<input type="checkbox"/>		
	9ED3 A9 C0 LDA #&C0	<input type="checkbox"/>		openfile
	9ED5 20 CE FF JSR OSFIND	<input type="checkbox"/>		XY pt.name
	9ED8 A8 TAY	<input type="checkbox"/>		file hndl.
	9ED9 F0 C6 BEQ .jmp_FILENOTFOUND	<input type="checkbox"/>		file not opened
	9EDB A6 F4 LDX PagedRomSelector_RAMCopy	<input type="checkbox"/>		
	9EDD BD F0 0D LDA PagedROM_PrivWorkspaces,X	<input type="checkbox"/>		
	9EE0 85 AD STA &AD	<input type="checkbox"/>		
	9EE2 E6 AD INC &AD	<input type="checkbox"/>		
	9EE4 24 FF BIT &FF	<input type="checkbox"/>		
	9EE6 30 E3 BMI &9ECB	<input type="checkbox"/>		
	9EE8 A5 A9 LDA &A9	<input type="checkbox"/>		
	9EEA 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	9EED A5 A8 LDA &A8	<input type="checkbox"/>		
	9EEF 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	9EF2 20 CE 9F JSR prtspc/addl00-spc	<input type="checkbox"/>		
	9EF5 A9 07 LDA #&07	<input type="checkbox"/>		
	9EF7 85 AC STA &AC	<input type="checkbox"/>		
	9EF9 A2 00 LDX #&00	<input type="checkbox"/>		
	9EFB 20 D7 FF JSR &FFD7	<input type="checkbox"/>		
	9EFE B0 0D BCS &9F0D	<input type="checkbox"/>		
	9F00 81 AC STA (&AC,X)	<input type="checkbox"/>		
	9F02 20 C2 80 JSR prthex(A) A preserved	<input type="checkbox"/>		
	9F05 20 CE 9F JSR prtspc/addl00-spc	<input type="checkbox"/>		
	9F08 C6 AC DEC &AC	<input type="checkbox"/>		
	9F0A 10 EF BPL &9EFB	<input type="checkbox"/>		
	9F0C 18 CLC	<input type="checkbox"/>		
	9F0D 08 PHP	<input type="checkbox"/>		
	9F0E 90 0E BCC &9F1E	<input type="checkbox"/>		
	9F10 20 65 80 JSR prtstr (if term.=0,BRK 100,no return)	<input type="checkbox"/>		
	9F13 2A 2A 20 **	<input type="checkbox"/>		
	9F16 A9 00 LDA #&00	<input type="checkbox"/>		
	9F18 81 AC STA (&AC,X)	<input type="checkbox"/>		
	9F1A C6 AC DEC &AC	<input type="checkbox"/>		
	9F1C 10 F2 BPL &9F10	<input type="checkbox"/>		
	9F1E A9 07 LDA #&07	<input type="checkbox"/>		
	9F20 85 AC STA &AC	<input type="checkbox"/>		
	9F22 A1 AC LDA (&AC,X)	<input type="checkbox"/>		
	9F24 C9 7F CMP #&7F	<input type="checkbox"/>		
	9F26 B0 04 BCS &9F2C	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9F28 C9 20 CMP #&20	<input type="checkbox"/>		
	9F2A B0 02 BCS .cmd_dump_prtchr	<input type="checkbox"/>		
	9F2C A9 2E LDA #&2E	<input type="checkbox"/>		
.cmd_dump_prtchr	9F2E 20 E3 FF JSR OSASCI	<input type="checkbox"/>		
	9F31 C6 AC DEC &AC	<input type="checkbox"/>		
	9F33 10 ED BPL &9F22	<input type="checkbox"/>		
	9F35 20 9A 9F JSR prtNewLine (A preserved)	<input type="checkbox"/>		
	9F38 A9 08 LDA #&08	<input type="checkbox"/>		
	9F3A 18 CLC	<input type="checkbox"/>		
	9F3B 65 A8 ADC &A8	<input type="checkbox"/>		
	9F3D 85 A8 STA &A8	<input type="checkbox"/>		
	9F3F 90 02 BCC &9F43	<input type="checkbox"/>		
	9F41 E6 A9 INC &A9	<input type="checkbox"/>		
	9F43 28 PLP	<input type="checkbox"/>		
	9F44 90 9E BCC &9EE4	<input type="checkbox"/>		
	9F46 B0 83 BCS &9ECB	<input type="checkbox"/>		
CMD_BUILD	9F48 20 D7 9F JSR Ltrim@TextPointer+Y	<input type="checkbox"/>		
	9F4B A9 80 LDA #&80	<input type="checkbox"/>		
	9F4D 20 CE FF JSR OSFIND	<input type="checkbox"/>		
	9F50 85 AB STA &AB	<input type="checkbox"/>		
	9F52 20 A2 9F JSR .9fa2	<input type="checkbox"/>		
	9F55 20 CE 9F JSR prtspc/add100-spc	<input type="checkbox"/>		
	9F58 A6 F4 LDX PagedRomSelector_RAMCopy	<input type="checkbox"/>		
	9F5A BC F0 0D LDY PagedROM_PrivWorkspaces,X	<input type="checkbox"/>		
	9F5D C8 INY	<input type="checkbox"/>		
	9F5E 84 AD STY &AD	<input type="checkbox"/>		
	9F60 A2 AC LDX #&AC	<input type="checkbox"/>		
	9F62 A0 FF LDY #&FF	<input type="checkbox"/>		
	9F64 84 AE STY &AE	<input type="checkbox"/>		
	9F66 84 B0 STY PrivateWorkspacePointer	<input type="checkbox"/>		
	9F68 C8 INY	<input type="checkbox"/>		
	9F69 84 AC STY &AC	<input type="checkbox"/>		
	9F6B 84 AF STY &AF	<input type="checkbox"/>		
	9F6D 98 TYA	<input type="checkbox"/>		
	9F6E 20 F1 FF JSR OSWORD	<input type="checkbox"/>		OSWORD 0, XY=&AC
	9F71 08 PHP	<input type="checkbox"/>		
	9F72 84 AA STY &AA	<input type="checkbox"/>		
	9F74 A4 AB LDY &AB	<input type="checkbox"/>		
	9F76 A2 00 LDX #&00	<input type="checkbox"/>		
	9F78 F0 07 BEQ &9F81	<input type="checkbox"/>		
	9F7A A1 AC LDA (&AC,X)	<input type="checkbox"/>		
	9F7C 20 D4 FF JSR OSBPUT	<input type="checkbox"/>		
	9F7F E6 AC INC &AC	<input type="checkbox"/>		
	9F81 A5 AC LDA &AC	<input type="checkbox"/>		
	9F83 C5 AA CMP &AA	<input type="checkbox"/>		
	9F85 D0 F3 BNE &9F7A	<input type="checkbox"/>		
	9F87 28 PLP	<input type="checkbox"/>		
	9F88 B0 08 BCS .9f92	<input type="checkbox"/>		
	9F8A A9 0D LDA #&0D	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9F8C 20 D4 FF JSR OSBPUT	<input type="checkbox"/>		
	9F8F 4C 52 9F JMP &9F52	<input type="checkbox"/>		
.9f92	9F92 A9 7E LDA #&7E	<input type="checkbox"/>		ack.ESCAPE
	9F94 20 F4 FF JSR OSBYTE	<input type="checkbox"/>		
	9F97 20 CB 9E JSR &9ECB	<input type="checkbox"/>		
prtNewLine (A preserved)	9F9A 48 PHA	<input type="checkbox"/>		print New line
	9F9B A9 0D LDA #&0D	<input type="checkbox"/>		
	9F9D 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	9FA0 68 PLA	<input type="checkbox"/>		
	9FA1 60 RTS	<input type="checkbox"/>		end
.9fa2	9FA2 F8 SED	<input type="checkbox"/>		word &A8+=1 BCD
	9FA3 18 CLC	<input type="checkbox"/>		
	9FA4 A5 A8 LDA &A8	<input type="checkbox"/>		
	9FA6 69 01 ADC #&01	<input type="checkbox"/>		
	9FA8 85 A8 STA &A8	<input type="checkbox"/>		
	9FAA A5 A9 LDA &A9	<input type="checkbox"/>		
	9FAC 69 00 ADC #&00	<input type="checkbox"/>		
	9FAE 85 A9 STA &A9	<input type="checkbox"/>		
	9FB0 D8 CLD	<input type="checkbox"/>		
	9FB1 18 CLC	<input type="checkbox"/>		
	9FB2 20 B7 9F JSR .9fb7	<input type="checkbox"/>		
	9FB5 A5 A8 LDA &A8	<input type="checkbox"/>		
.9fb7	9FB7 48 PHA	<input type="checkbox"/>		
	9FB8 08 PHP	<input type="checkbox"/>		
	9FB9 20 05 82 JSR .A>>4	<input type="checkbox"/>		
	9FBC 28 PLP	<input type="checkbox"/>		
	9FBD 20 C1 9F JSR .9fc1	<input type="checkbox"/>		
	9FC0 68 PLA	<input type="checkbox"/>		
.9fc1	9FC1 AA TAX	<input type="checkbox"/>		
	9FC2 B0 02 BCS .9fc6	<input type="checkbox"/>		
	9FC4 F0 08 BEQ prtspc/add100-spc	<input type="checkbox"/>		
.9fc6	9FC6 20 CA 80 JSR prthexLoNib (A low nibble) A preserved	<input type="checkbox"/>		
	9FC9 38 SEC	<input type="checkbox"/>		
	9FCA 60 RTS	<input type="checkbox"/>		
print2spc/add100-2spc	9FCB 20 CE 9F JSR prtspc/add100-spc	<input type="checkbox"/>		print two spaces
prtspc/add100-spc	9FCE 48 PHA	<input type="checkbox"/>		print space
	9FCF A9 20 LDA #&20	<input type="checkbox"/>		
	9FD1 20 9C 80 JSR prtchr/add100(10DE) A=Chr	<input type="checkbox"/>		
	9FD4 68 PLA	<input type="checkbox"/>		
	9FD5 18 CLC	<input type="checkbox"/>		
	9FD6 60 RTS	<input type="checkbox"/>		end
Ltrim@TextPointer+Y	9FD7 BA TSX	<input type="checkbox"/>		
	9FD8 A9 00 LDA #&00	<input type="checkbox"/>		
	9FDA 9D 07 01 STA &0107,X	<input type="checkbox"/>		??
	9FDD 88 DEY	<input type="checkbox"/>		
.ltrimloop	9FDE C8 INY	<input type="checkbox"/>		
	9FDF B1 F2 LDA (TextPointer),Y	<input type="checkbox"/>		
	9FE1 C9 20 CMP #&20	<input type="checkbox"/>		ignore spaces
	9FE3 F0 F9 BEQ .ltrimloop	<input type="checkbox"/>		

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Label	Code	Zero	New Instruction	Comment
	9FE5 C9 0D CMP #0D	<input type="checkbox"/>		don't expect CR
	9FE7 D0 03 BNE .ltrimnoerror	<input type="checkbox"/>		
	9FE9 4C 06 9A JMP .syntaxerr	<input type="checkbox"/>		
.ltrimnoerror	9FEC A9 00 LDA #00	<input type="checkbox"/>		
	9FEE 85 A8 STA &A8	<input type="checkbox"/>		
	9FF0 85 A9 STA &A9	<input type="checkbox"/>		
	9FF2 48 PHA	<input type="checkbox"/>		
	9FF3 98 TYA	<input type="checkbox"/>		YX=T.P.+Y
	9FF4 18 CLC	<input type="checkbox"/>		
	9FF5 65 F2 ADC TextPointer	<input type="checkbox"/>		
	9FF7 AA TAX	<input type="checkbox"/>		
	9FF8 A5 F3 LDA TextPointerHi	<input type="checkbox"/>		
	9FFA 69 00 ADC #00	<input type="checkbox"/>		
	9FFC A8 TAY	<input type="checkbox"/>		
	9FFD 68 PLA	<input type="checkbox"/>		
	9FFE 60 RTS	<input type="checkbox"/>		
	9FFF 6D m	<input type="checkbox"/>		