

EXHIBIT

1-C-1  
X

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From: Shiloh, Yehonatan  
Sent: Sunday, October 31, 1999 5:41 AM  
To: Shkedy, Zvi  
Cc: Falik, Dov; Sofer, Helith; Rose, Ted; Laslo, Yehudil  
Subject: rom?

Enclosed below are the contents of 2 files which are described in <http://www.dishplex.com> as being portions of the Echostar ROM.  
This is how they are described at the website:  
This is the first of 2 files are the disassembled version of the e\* ROM info that was posted on #dishnetwork. These files require Ultra Edit to be viewed. More details on the file soon. Donated by "Binky".

This is the second of 2 files are the disassembled version of the e\* ROM info that was posted on #dishnetwork. These files require Ultra Edit to be viewed. More details on the file soon. Donated by "Binky".

Regards,  
Yoni Shiloh  
e-mail: YShiloh@ndsi.israel.com  
phone: +972 (2) 5894437  
fax: +972 (2) 5861814  
cell: +972 (51) 958627

99/09/08

[03:49] \*\*\* ^Piper has joined #dishnetwork [03:55] <^Piper> this dishshit rom 2 rear

7F10: 81,A6,4B,B7,50,AD,96,24,B2,C6,01,A2,A1,98,26,10 ; |X-P--\$'E.¢|~z.  
7F20: C6,01,A3,26,0B,9C,AE,7A,A6,9F,CD,68,59,CC,01,A5 ; .....  
7F30: AD,9C,B6,3F,A0,05,CL,01,A4,26,8D,97,A3,5B,22,88 ; -æ?~  
.A..dg -e!~  
7F40: D6,01,A4,B7,7F,5A,26,F8,38,50,AE,80,C6,01,A4,CD ; 0..æ zæøøPOCM..!~  
7F50: 78,1E,3F,50,CC,7A,9C,A5,4B,B7,50,CD,7E,AD,24,B7 ; x zPizæ|x.Pf--\$.  
7F60: CD,7E,CE,B6,3F,A1,07,26,42,C6,01,A4,A1,02,26,3B ; f-!f?!.GBE.º|.¢;  
7F70: CE,01,A5,C6,01,A6,CD,6E,88,22,03,CC,7A,9C,CD,5E ; f.VA.[fn~.læmñ  
7F80: 23,CD,68,B0,CD,6D,C9,CD,5C,06,FD,BE,FD,B6,PE,CD ; #fhaimfil.yxy!pf  
7F90: 6E,18,5D,26,05,4D,27,0E,20,02,A6,PF,38,50,CD,79 ; n.læ.M'.  
.|yBPFy  
7FA0: B0,CD,6D,65,20,E5,3F,50,CC,7A,9C,CC,7A,6B,A6,0F ; €ime àPizæñz!~  
7FB0: B7,20,4F,BB,20,DE,E0,20,DB,73,8A,3A,20,2A,P4,81 ; . OK ñå 0sS:  
\*8  
7FC0: A6,4B,B7,50,AD,E8,A1,20,24,18,AE,0F,D6,7B,0B,E7 ; |X-P-é; s.º.º(.c  
7FD0: 80,5A,2A,F8,38,50,CD,6A,47,ED,20,AE,80,A6,10,CD ; €zrøøfijGå øE;.i  
7FE0: 78,1E,3F,50,81,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B ; x ?P >>>>>  
7FF0: 9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,20,FE ; >>>>>>> p

[03:56] \*\*\* ^Piper has quit IRC (Quit: Leaving )

Preliminary disassembly pending further info.

ORG 7F10H  
7F10 81 rts  
7F11 A64B lda #04BH  
7F13 B750 sta 050H  
7F15 AD96 bsr 7EADH  
7F17 24B2 bcc 7ECBH

CASE NO.  
SA CV 03-950 DOC (JTLx)  
ECHOSTAR SATELLITE CORP., et al.

NDS097889

vs.

NDS GROUP PLC, et al.

DEFENDANT'S EXHIBIT 791

DATE \_\_\_\_\_ IDEN.

DATE \_\_\_\_\_ EVID.

BY \_\_\_\_\_  
Deputy Clerk

EXHIBIT

1-C-11

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From: Shiloh, Yehonatan  
Sent: Sunday, October 31, 1999 5:41 AM  
To: Shkedy, Zvi  
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Regards,  
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99/09/08

[03:49] \*\*\* ^Piper has joined #dishnetwork [03:55] <^Piper> this dishshit rom 2 rear

7F10: 81,A6,4B,B7,50,AD,96,24,B2,C6,01,A2,A1,98,26,10 ; |K-P--\$^E.¢| ¤.  
7F20: C6,01,A3,26,08,9C,AE,7A,A6,9F,CD,68,59,CC,01,AS ; .....  
7F30: AD,9C,B6,3F,A0,05,C1,01,A4,26,8D,97,A3,5B,22,88 ; -¤¶?  
.¤.¤ -£!^"  
7F40: D6,01,A4,E7,7F,5A,26,F8,38,50,AE,80,C6,01,A4,CD ; 0..¤ Zte8P0CE.m.i  
7F50: 78,1E,3F,50,CC,7A,9C,A6,4B,B7,50,CD,7E,AD,24,B7 ; x ?Pzze|K-Pi--\$.  
7F60: CD,7E,CE,B6,3F,A1,07,26,42,C6,01,A4,A1,02,26,3B ; i-!¶!.|B8E.¤|.¤.  
7F70: CE,01,A5,CE,01,A6,CD,6E,88,22,03,CC,7A,9C,CD,6B ; i.YA.|fn^.lzañ  
7F80: 23,CD,68,ED,CD,6D,C9,CD,6C,06,FD,BE,FD,B6,PE,CD ; #fhaimñfl.yXy¶f  
7F90: 6E,18,5D,26,05,4D,27,0E,20,02,A6,FF,38,50,CD,79 ; n.]¤.M'.  
.|y8EPiy  
7FA0: 80,CD,6D,65,20,ES,3F,50,CC,7A,9C,CC,7A,6B,A6,0F ; eime a?Pizmizk;.  
7FB0: B7,20,4F,BE,20,DE,ED,20,DB,73,8A,3A,20,2A,P4,81 ; . OK da OsS;  
\*6  
7FC0: A6,4B,B7,50,AD,ES,A1,20,24,18,AE,0F,D6,7B,0B,E7 ; |K-P-é| \$.°.ö(.ç  
7FD0: 80,5A,2R,F6,38,50,CD,6A,47,ED,20,AE,80,A6,10,CD ; EZ\*8PijGä oe;.i  
7FE0: 78,1E,3F,50,81,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,20,FE ; x ?P .....  
7FF0: 9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,9B,20,FE ; >>>>>>>> p

[03:56] \*\*\* ^Piper has quit IRC (Quit: Leaving )

Preliminary disassembly pending further info.

ORG 7F10H  
7F10 81 rts  
7F11 A64B lda #04BH  
7F13 B750 sta 050H  
7F15 AD96 bsr 7EADH  
7F17 24B2 bcc 7ECBH

7F19	C601A2	lda	01A2H
7F1C	A198	cmp	#098H
7F1E	2610	bne	7F30H
7F20	C601A3	lda	01A3H
7F23	260B	bne	7F30H
7F25	9C	rsp	
7F26	A87A	ldx	#07AH
7F28	A69F	lda	#09FH
7F2A	CD6859	jsr	6859H
7F2D	CC01A5	jmp	01A5H
7F30	AD9C	bsr	7ECEN
7F32	B63F	lda	03FH
7F34	A005	sub	#005H
7F36	C101A4	cmp	01A4H
7F39	268D	bne	7EC8H
7F3B	97	tax	
7F3C	A35B	cpx	#05BH
7F3E	2288	bhi	7EC8H
7F40	D601A4	lda	01A4H,X
7F43	E77F	sta	7FH,X
7F45	5A	decx	
7F46	26F8	bne	7F40H
7F48	3850	lsl	50H
7F4A	AE80	ldx	#080H
7F4C	C601A4	lda	01A4H
7F4F	CD781E	jsr	781EH
7F52	3F50	clr	50H
7F54	CC7A9C	jmp	7A9CH
7F57	A64B	lda	#04BH
7F59	B750	sta	05UH
7F5B	CD7EAD	jsr	7EADH
7F5E	24B7	bcc	7F17H
7F60	CD7ECE	jsr	7ECEH
7F63	B63F	lda	03FH
7F65	A107	cmp	#007H
7F67	2642	bne	7FABH
7F69	C601A4	lda	01A4H
7F6C	A102	cmp	#002H
7F6E	263B	bne	7FABH
7F70	CE01A5	ldx	01A5H
7F73	C601A6	lda	01A6H
7F76	CD6888	jsr	6E88H
7F79	2203	bhi	7F7EH
7F7B	CC7A9C	jmp	7A9CH
7F7B	CD6E23	jsr	6E23H
7F81	CD68E0	jsr	68E0H
7F84	CD6DC9	jsr	6DC9H
7F87	CD6C06	jsr	6C06H
7F8A	FD	jsr,X	
7F8B	BEFD	ldx	0FDH
7F8D	B6FE	lda	0FEH
7F8F	CD6E18	jsr	6E18H
7F92	5D	tstx	
7F93	2605	bne	7F9AH
7F95	4D	tsta	
7F96	270E	beq	7FA6H
7F98	2002	bra	7F9CH
7F9A	A6FF	lda	#0FFH
7F9C	3850	lsl	50H
7F9E	CD7980	jsr	7980H
7FA1	CD6D65	jsr	6D65H
7FA4	20E5	bra	7F8BH
7FA6	3F50	clr	50H
7FA8	CC7A9C	jmp	7A9CH
7FAB	CC7A6B	jmp	7A6BH

```

7FAE A60F lda #00FH
7FB0 B720 sta 020H
7FB2 4F clra
7FB3 BE20 ldx 020H
7FB5 DEE020 ldx E020H,X
7FB8 DB738A add 738AH,X
7FB9 3A20 dec 20H
7FBD 2AF4 bpl 7FB3H
7FBF 81 rts
7FC0 A64B lda #04BH
7FC2 B750 sta 050H
7FC4 ADE8 bsr 7FAEH
7FC6 A120 cmp #020H
7FC8 2418 bcc 7FE2H
7FC9 AE0F ldx #00FH
7FCC D67B0B lda 7B0BH,X
7FCF E780 sta 80H,X
7FD1 5A decx
7FD2 2AF8 bpl 7FCCH
7FD4 3850 lsl 50H
7FD6 CD6A47 jsr 6A47H
7FD9 E020 sub 20H,X
7FDB AE80 ldx #080H
7FDD A610 lda #010H
7FDP CD781E jsr 781EH
7FE2 3F50 clr 50H
7FE4 81 rts
7FE5 9B sei
7FE6 9B sei
7FE7 9B sei
7FE8 9B sei
7FE9 9B sei
7FEA 9B sei
7FEB 9B sei
7FEC 9B sei
7FED 9B sei
7FEK 9B sei
7FFC 9B sei
7FF0 9B sei
7FF1 9B sei
7FF2 9B sei
7FF3 9B sei
7FF4 9B sei
7FF5 9B sei
7FF6 9B sei
7FF7 9B sei
7FF8 9B sei
7FF9 9B sei
7FFA 9B sei
7FFB 9B sei
7FFC 9B sei
7FFD 9B sei
7FFE 20FE bra 7FPEH

```

99/09/11

[22:47] \*\*\* magma has joined #dishnetwork

```

2000: 0D,04,2A,3F,00,8E,20,FB,9D,33,25,80,80,00,D6,E0 ; ..*7.2 à 3sec.0
2010: 00,81,0F,00,01,0F,C8,CC,AE,0A,D6,20,0D,E7,29,5A ; .....Èí*.ó
.c)
2020: 2A,F8,81,AD,F3,CD,21,41,CD,20,E8,20,FE,06,02,09 ; *e -6f!Af à p..
2030: 02,00,F0,0E,04,ED,CC,1E,AF,1E,04,CC,22,1A,0C,04 ; ..ö..ii = .i*..

```

2040: 03,07,01,03,CC,40,1E,AD,CF,0F,04,03,CC,22,37,06 ;  
 ...1@ -i...1=7  
 2050: 02,E7,CC,1F,28,3F,27,3F,28,3F,29,AD,75,BE,2F,B6 ; .c1 {?'?'?}-uK/  
 2060: 2E,BB,2B,B7,2B,5A,BD,2A,BB,27,B7,27,24,06,3C,28 ; .>+>Zy+>'! '\$,<  
 2070: 26,02,3C,29,5D,26,EE,3A,2B,3A,2E,2A,E8,AB,02,E6 ; E.<)]E1:+::+e0.  
 2080: 27,CD,22,B3,5A,2A,FB,4F,81,12,04,B6,01,13,04,3F ; 'f+Z+eo ..9...  
 2090: 01,AD,49,A6,40,AD,45,16,02,14,04,20,FB,B6,2E,A1 ; ..I@-E...  
 b9.  
 20A0: 10,26,37,4F,04,21,07,CD,22,F6,BD,2A,BA,25,E7,36 ; .570..!f"5g\*+tç  
 20B0: 5C,B3,28,26,EE,AD,51,AD,17,BD,2A,E1,36,26,1B,SC ; \'.cf-Q-X\*á6k.  
 20C0: B3,2E,26,FS,4F,20,15,CD,1F,55,AD,1C,AD,6E,20,85 ; .450 .f U--n  
 20D0: AD,45,3F,03,01,21,02,16,03,81,A6,FA,0E,04,04,CD ; -E?..!... |ü...  
 20E0: 1F,77,4F,B7,20,81,A6,FF,10,2B,AD,0F,1A,03,AD,27 ; wo.  
 |y.+...-  
 20F0: 11,2B,B6,30,27,02,AD,35,3F,03,81,5F,4D,26,02,14 ; .+q0',-57. \_Mk.

[22:48] <magma> new world order has spoken! echoram 2000-20ff back off nagra [22:48] \*\*\*  
 magma has quit IRC (Quit: Leaving )

The beginning part is wide open to interpretation.

#### VARIATION # 1

ORG 2000H		
2000	0D042A	brcclr6 042AH
2003	3F00	clr 00H
2005	8E	stop
2006	20FB	bra 2003H
2008	9D	nop
2009	3325	com 25H
200B	80	rti
200C	80	rti

#### Variation # 2

ORG 2000H		
2000	0D	db
2001	042A3F	breset2 2A3FH
2004	008E20	breset0 8E20H
2007	FB	add,X
2008	9D	nop
2009	3325	com 25H
200B	80	rti
200C	80	rti

200D	00D6E0	breset0 D6E0H
2010	00810F	breset0 810FH
2013	00010F	breset0 010FH
2016	C8CCAE	eor CCAEH
2019	0ADG20	breset5 D620H
201C	0DE729	brcclr6 E729H
201F	5A	decx
2020	1AF8	bpl 201AH
2022	81	rts
2023	A0F1	bsr 2018H
2025	CD2141	jsr 2141H
2028	CD20E8	jsr 20E8H
202B	20FE	bra 202BH
202D	060209	breset3 0209H
2030	0200F0	breset1 00F0H
2033	0E04ED	breset7 04EDH
2036	CC1EAF	jmp 1EAFH
2039	1E04	bset7 04H
203B	CC221A	jmp 221AH

203E	0C0403	brset6	0403H
2041	070103	brclr3	0103H
2044	CC401B	jmp	401EH
2047	ADCF	bsr	2018H
2049	0F0403	brclr7	0403H
204C	CC2237	jmp	2237H
204F	0602E7	brset3	02E7H
2052	CC1F28	jmp	1F28H
2055	3F27	clr	27H
2057	3F28	clr	28H
2059	3F29	clr	29H
205B	AD75	bsr	20D2H
205D	BE2F	ldx	02FH
205F	B62E	lda	02EH
2061	BB2B	add	02BH
2063	B72B	sta	02BH
2065	5A	decx	
2066	BD2A	jsr	02AH
2068	BB27	add	027H
206A	B727	sta	027H
206C	2406	bcc	2074H
206E	3C28	inc	28H
2070	2602	bne	2074H
2072	3C29	inc	29H
2074	5D	tstx	
2075	26EE	bne	2065H
2077	3A2B	dec	2BH
2079	3A2E	dec	2EH
207B	2A88	bpl	2065H
207D	AE02	ldx	#002H
207F	E627	lda	27H,X
2081	CD22B3	jsr	22B3H
2084	5A	decx	
2085	2AF8	bpl	207FH
2087	4F	clra	
2088	81	rts	
2089	1204	bset1	04H
208B	B601	lda	001H
208D	1304	bclr1	04H
208F	3F01	clr	01H
2091	AD49	bsr	20DCH
2093	A640	lda	#040H
2095	AD45	bsr	20DCH
2097	1602	bset3	02H
2099	1404	bset2	04H
209B	20FE	bra	209BH
209D	B62E	lda	02EH
209F	A110	cmp	#010H
20A1	26J7	bne	20DAH
20A3	4F	clra	
20A4	042107	brset2	2107H
20A7	CD22F6	jsr	22F6H
20A8	BD2A	jsr	02AH
20AC	BA25	ora	025H
20AE	E736	sta	36H,X
20B0	5C	incx	
20B1	B32E	cpx	02EH
20B3	26EE	bne	20A3H
20B5	ADS1	bsr	210BH
20B7	AD17	bsr	20D0H
20B9	BD2A	jsr	02AH
20B8	EL16	cmp	36H,X
20BD	261B	bne	20DAH
20BF	5C	incx	
20C0	B32E	cpx	02EH

20C2 26F5 bne 20B9H  
20C4 4F clra  
20C5 2015 bra 20DCH  
20C7 CD1F55 jsr 1F55H  
20CA AD1C bsr 20E8H  
20CC AD6E bsr 213CH  
20CB 2085 bra 2055H  
20D0 AD45 bsr 2117H  
20D2 3F03 clr 03H  
20D4 012102 brclr0 2102H  
20D7 1603 bset3 03H  
20D9 81 rts  
20DA A6FA lda #0FAN  
20DC 0E0404 brset7 0404H  
20DF CD1F77 jsr 1F77H  
20E2 4F clra  
20E3 B720 sta 020H  
20E5 81 rts  
20E6 A6FF lda #0FFFH  
20E8 102B bset0 2BH  
20EA AD0F bsr 20FBH  
20EC 1A03 bset5 03H  
20EE AD27 bsr 2117H  
20F0 112B bclr0 2BH  
20F2 B630 lda 030H  
20F4 2702 beq 20F8H  
20F6 AD35 bsr 212DH  
20F8 3F03 clr 03H  
20FA 81 rts  
20FB 5F clrx  
20FC 4D tsta  
20FD 2602 bne 2101H  
20FF 14 bset2 FFFFH