```
| 1964 | PAY SORES | Includes 10ME QUI |
| 1965 | PAY SORES | TOWN SOR
 SOURCE LINE
LOCATION OBJECT CODE LINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0300 3E9F
0302 0E90
0304 1680
0306 D02A7024
030A CD034E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16A0
002A7026
CD034E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16C0
D02A702B
CD034E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         D02A7022
D05E00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0333 2004
0335 03FF
0337 1814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3EBF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0EB0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3EDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OED0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3EFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OE FO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0300
0307
0313
0313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      031c
031c
0320
0324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0327
0329
0328
0325
0332
```

| FILE: 05_TPRIME:p0S  |             | HEWLETT-PACKARD: LOAD NEXT NOTE (c) Coleco, 1982 | (c) Coleco, 1982 CONFIDENTIAL Fri, 18 May 1984, 16:19 P  |
|----------------------|-------------|--|--|
| LOCATION OBJECT CODE | LINE        | SOURCE LINE                                      |  |
| 03A1 C30461          | 1391        | OBOOM OF   | ;to load byte 0  |
|                      | 1393        | · test for special sour                          | d effect   |
| 03A4 E63C            | 1394 1.14   | AMD 001111008                                    | ;mask irrelevant bits  |
|                      | 138         | IF [PSW, IS, ZERO]                               | note is a special effect   |
| 03AB 2028            | 1397        | JR MZ,L15  |  |
|                      | 1399 EFFECT | P09 17   | : IY := SONGNO   |
| OSAC FDES            | 1400        | PUSH 1Y  | SONGNO back on stack   |
|                      | 1401        | PUSM BC  | save header on stack; NEXT NOTE PIR := SFX, DE := SFX  |
| 0380 55              | 1403        | INC MI   | : pr nl to next byte its# accr sfx]  |
|                      | 1404        | 10 (1X+1),E                                      | : put LSB of SFX in byte 1 of SxDATA [NEXT NOTE PTR]   |
|                      | 1405        | INC HL   | ; .pt HL to MSB SFX  |
| 0.000 200            | 9051        | 10 0, (AL)                                       | XIS BOX B: Q.  |
|                      | 1608        | INC HI   | "put NSB STR In Dyle 2 of SXURIA   |
| 038A FDE5            | 1409        | PUSH IY  | A := SONGNO  |
| 038C F1              | 1410        | POP AF   |  |
| 0380 05              | 1411        | PUSH DE  | : Y := Sfx   |
| 0366 1051            | 7141        | 1354 34 41                                       | The state of the s |
| 030 11030            | 1413        | ED DE, PASSI                                     | DASSI OF THE STACK   |
| 03C4 FDE9            | 1415        | JP (IY)  | : 1st 7 bytes SFX will save addr next note & SONGNO  |
|                      | 1416 PASS1  |  | in some fashion, create a "CALL (17+7)"  |
| 03CB 1E07            | 1417        | 200  | ; to allow SFX to load initial values  |
|                      | 1418        | ADD 17,0E  |  |
| 03cc 110461          | 14.19       | LD DE, MODBO                                     | RET to MODBO   |
|                      | 1421        | JO FLY   |  |
|                      | 1422 ;      | ENDIF  |  |
|                      |             | · if here, note is type 0 · 3                    | 0 - 3  |
| 0302 CS              | 1424 115    | PUSH BC  |  |
| 0303 78              | 1425        | LD A,B   | : A := fresh copy header   |
| 000 500              | 17.37       | Co C   | imask all but type number  |
|                      | 1428        | IF IPSU IS ZEROI                                 |  |
| 0306 2020            | 14.29       | JR NZ, L16                                       |  |
|                      | 1430        | * cet up MEXT MOTE PIR                           |  |
|                      | 14.32 TYPEO |  | :next note [after this new note] is 4 bytes away.  |
| 0308 23              | 1433        | INC HL   | ;point ML to it  |
|                      | 14.34       | INC H  |  |
| 0.000 23             | 14.35       | INC HL   | ata right some statements  |
| 03F1 D07402          | 1437        | LO [1X+1], L                                     | put acer in wext work fire   |
|                      | 1438        | " move new note data                             | move new note data and fill in bytes where necessary   |
| 0364 28              | 1439        | DEC ML   | ; point Ht back to 1st ROM data to move, NIEM  |
| 0365 110005          | 1440        | LD DE, 05  | ;point DE to destination: bytes 5, 4, and 3  |
|                      | 1 5 5 1     | CALL DE 10 DESI                                  | order I work.  |
| OJEE EDBB            | 1443        | 1008   | יישוב אולון כי אולון   |
| 03F0 D0360700        | 1444        | LD (IX+FSTEP), 0                                 | for no   |
| 190                  |             | o  | doors on I , , st  |
|                      |             |  |  |

| FILE: 0S_7PRIME:pOS  | ME:pos      | HEMETI   | HEWLETT-PACKARD: LOAD NEXT NOTE (c) Coleco, 1982 | CONFIDENTIAL Fri. 18 May 1982 14.10  |   |
|----------------------|-------------|----------|--|--|---|
| LOCATION OBJECT CODE | CT CODE LIN | ш        | SOURCE LINE                                      |  | 3 |
| 03FA FE01            |             | 917 877  | - 45   | test for type 1  |   |
| 03FC 2018            |             | 1449     | IF [PSW, IS, ZERO]<br>JR NZ, L17                 | note is type 1: swept freq, fixed attenuation  |   |
|                      | 22          | 1451 ;   | * CASE - note type 1                             |  |   |
|                      |             | 53 TYPE1 | LD E.6   |  |   |
| 0400 1600            |             | <b>3</b> | 0,0  | increative this hote is 6 bytes away,  |   |
| 0403 0075            | 0000        | 2.5      | ADO HL, DE                                       |  |   |
| 0406 D07402          | in to u     | 2.5      | LD [1X+2],H                                      | store in NEXT_NOTE_PTR   |   |
|                      | 2           |          | " Move new note data a                           | * Move new note date and fill in bytes where necessary   |   |
| 0,00                 | 2 2         | 2 5      | DEC ML   | point HL back to 1st ROM data to move Forep  |   |
| 0408 CD0478          | 10000       | :=       | CALL DE 10 DEST                                  | ; E := 7; point DE to destination: bytes 7 . 3   |   |
| 040€ 010005          | 1462        | ~        | LD 8C,5  | :Move 5 bytes  |   |
| 0413 00360           | -           | 2 4      | LDOR   |  |   |
| 0417 1848            |             | . 20     | JR MODBO   | ; set for no atm sweep   |   |
| 0419 FE02            | 1466        | 7 117    |  |  |   |
|                      | 146         |          |  | note is type 2   |   |
| 8707                 | 94.         | •        |  | The F. like Ired, Swept attenuation  |   |
|                      |             |          | * cet in MEYT MOTE ore                           |  |   |
| -                    | 147         | 2 TYPE2  | LO E,6   | IDT M to parts after this series   |   |
| 0421 19              | 227         | <b>.</b> | 0,0  | pt ML to it by adding 6  |   |
| -                    | 147         |          | POP AE   |  |   |
|                      | 1476        | · •      | PUSH AF  | :A := header this note [CH#   SONGNO]  |   |
| W44 E0C0             | 12          |          | AMD 110000008                                    | Smask SONGNO, Jeaving CHM  |   |
| 0426 2001            | 250         |          | IF [PSW, IS, ZERO]                               | this is a noise note, which is only 5 ROM bytes love   |   |
| 0428 28              | 1480        | . ~      | DEC ML   |  |   |
| 200                  |             |          | ENDIF  | , so move ni back i byte   |   |
| 042C 007402          | 1482        | E 18     | 1, [1*1], L                                      | ; put addr in NEXT_NOTE_PTR  |   |
|                      | _           | . :      | note data  | My fill in but a state of the s |   |
| 04.2F 28             | 1485        |          |  |  |   |
|                      | 1480        | 22       | 10 E,9   | point DE to destination: bytes 9,8,5 . 3   |   |
| 0435 010002          |             |          | LD BC. 2   | A PARTY C BACKET   |   |
|                      |             |          | LDOR   | When done. De points to Forte ut to now  |   |
|                      |             |          | LD A,0   | WELL TO YOU WIEW   |   |
| 200                  | 2671        |          | LD [DE],A  | ;FSIEP := 0 for no freq sweep  |   |
|                      | 1493        |          | DEC DE   | ; pt DE to RAM NLEN  |   |
|                      | 1494        |          | 10 C.3   | The state of the s |   |
| 0441 EDB8            | 1495        |          | LDOR   | Will be loaded into hore I have the second and a second  |   |
|                      | 1496        |          | JR MODBO   | the of the of the of the of the control of the cont |   |
|                      | 1498        |          | if here, note is type 3:                         | if here, note is type 3: swent free states   |   |
|                      | 1500        |          | CASE note type 3                                 | articles, swept atternation  |   |
|                      | 1501        | 1YPE3    | TO MENT MOTE FIR                                 | of a state of the  |   |
| 0449 19              | 1502        |          |  | pt HL to it  |   |
|                      | 1504        |          | 10 (1x+1).L                                      | And the state of the same  |   |
|                      |             |          |  | , put addr in NEXI NOIE PIR  |   |

\* NEWLETT-PACKARD: ACTIVATE (c) Coleco, 1982 CONFIDENTIAL

SOURCE LINE

LOCATION OBJECT CODE LINE

FILE: 05 TPRIME:pOS

```
1. ELIMINATE CODE PLACING OLD. SCREEN ADDRESS IN STATUS AREA
2. INIT X.PAT.POS IN OLD. SCREEN WHEN IN VRAM AS WELL AS WHEN IN CRAN
3. USE VOP.NODE. WORD TO TEST GRAPHICS MODE
4. ADD CODE TO EXPAND ONE COLOR GENERATOR BYTE TO B
5. ADDED C. BUFF DEFS B FOR COLOR EXPANDING CODE
6. FIX COLOR GEN MOWE IN NODE I
7. USE CONTROLER_MAP FOR BUFFER AREA
                                        4/22/82
13:50:00
                                                                                                                                                                                                                                                                                                                                                                                 ; -> 08J TO ACTIVATE
                                                                                                                                                                                                                                                                                                       SIGNAL NV TO VRAM
                                                                                                                                                                                                                                                                                                                                                                                                                                      PUT VRAM , VRAM URITE, VDP MODE WORD WORK BUFFER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1508;
1509; REGISTER USAGE: FOLLOWING WILL BE CHANGED BY ACTIVATE, ADDITIONAL
1590; MAY BE CHANGED BY CALLED SUBR
1591;
1592;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1594
1595 ; PROCEDURE ACTIVATEQIVAR OBJ:OBJECT;MOVE:BOOLEAN];
1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1597; ACTIVATEQ IS THE PASCAL ENTRY POINT TO ACTIVATE 1598
                                                                                                                                                                                                                                                                                                       ML,08J n
                                                                                                                                                                                                                                                                                                                            ACTIVATE
                                                                                                                                                                                                                                                                                                                                                                                  HL,083_n
                                                                                                                                                                                                                                                                                                                                                                                                      ACTIVATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACTIVATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1600; THE PASCAL PARAMETER PASSING PROCEDURE 1601;
. IDENT ACTIVATE . 20P . . EPOP
                                                                                                                                                                                                                                                                                                                                                                                 2 8 E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GLB
                                                                                                                                                                                                                                                                                                                                                                                                                                         ;EXT
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;EXT
                                   COMMENT )
                                                                                                                                                                                                                                                                                                                                                                      1578 • 1580 • 1581 • 1582 • 1584 • 1585 • 1585 • 1585 • 1585 • 1585
                                                                                                                                                                                                                                                                                                                                                             1577 *OR
                                                                                                                                                                                                                                                                                                     1572 •
                                                                                                                                                                                                                                                                                                                          1574
1575
1576
                                                                                                                                                                                                                                                                                                                                                                                                                                                             586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         587
```

SOURCE LINE

LOCATION OBJECT CODE LINE

**€0488** 

FILE: 05 TPRIME: pOS

0488 010402 0498 11738A 0494 5E 0494 5E 0495 23 0496 56 0497 E8 0497 E8 0497 E8 0497 E8 0497 E8 0498 737 0498 7803 0499 2803 0498 37

<04A3>

GET 08J TYPE & FLG; SV 08J TYPE & FLG; GET 08J TYPE=0

; ZERO FRAME

">> OBJ GEN CROM

.. > OBJ CRAM

; TYPE=1

, ACT\_MOBILE ACT\_OSPRT

CAOSE 7 CA05F1 CA0600 CA0600

0443 5E 0446 23 0446 23 0446 23 0446 23 0446 23 0448 3E00 0448 3E00 0448 15 0481 15 0481 14 0482 1405 0483 30 0485 30 0486 30 0486 30 0486 30 0486 30 0486 30 0486 30

; IYPE=3 ; IYPE=2

; SUBCASE ELSE

ACT CMPLX ACT\_ISPRT

CYACK = PO 1 1 VPE & CID VRAM FILE

1652 JR 1653 POP 1654 RET 1655 ; ON ENTRY TO SUBCASES:

| F 75.77  | MEMETT-PACKARD: ACTIVATE (c) COLECO, 1962 CONFIDENTIAL LINE SOURCE LINE | FFI, 15 May 1964, 16:19  |
|--|---|--|
| 1658   DE-YOBJ STATUS+0     1650      |   |  |
| 1659   1650      | ••  |  |
| 1660   1662   1662   1662   1662   1662   1662   1662   1662   1662   1662   1663   1663   1664   1664   1665   1664   1665      |   |  |
| 1641   1641   1642   1643   1644      |   |  |
| 1  |   |  |
| 1664   SMECASE COMPLEX   1665   RRA   1  | ACT CHPLX   |  |
| 1  | ; SUBCASE Complex   |  |
| F   1665   RRA   | 10 Y' INE   |  |
| F   1660   RRA     F   1670   LD   E, [HL]     F   1671   LD   E, [HL]     F   1672   LD   E, [HL]     F   1673   LD   E, [HL]     F   1673   LD   E, [HL]     F   1674   RRA     F   1675   RRA   RRA     F   1676   RRA   RRA     F   1700     |   |  |
|  |   |  |
| 1600   |   |  |
| 1677   1679   10   |   |  |
| 1672   1673   110   111   11   |   |  |
| 23 1672 1100 H, INC. H | 10 E. [M]   | 1151   |
| 23 1673 10 0 7,1013 24 1674 10 0 0,1013 25 1675 00 0 A A F F F F F F F F F F F F F F F   |   |  |
| 23 1674 INC NIL 2810 1675 OR A 2810 1675 OR A 2810 1675 OR A 2810 1675 OR AF FI 1670 POP AF FI 1680 POP BC FI 1680 CALL CONCAS 1683 CALL CONCAS 1683 CALL CONCAS 1683 CALL CONCAS 1684 CALL CONCAS 1685 CALL CONCA | ! 9   |  |
| ### 1675 OR A F 1679  2810 1675 OR A F 1679  40405> 1677 CWPLX4 EQU S  | - INC   |  |
| 2810 1676 JR 2, CAPLK9   | <b>*</b>  |  |
| COMPANY   COUNTY      | *   |  |
| FI 1678 POP AF FIS 1500 PUSH AF FIS 1500 PUSH AF FIS 1500 PUSH AF FIS 1501 PUSH AF FIS 1502 PUSH ACT FIS 1681 POP BC CALL ACTIVATE COCKA3 1683 CALL ACTIVATE COCKA3 1683 CALL ACTIVATE COCKA3 1685 POP HC SE 1686 POP HC SE 1680 LD CHPLX SE 1680 LD | CMPLX4 EQU \$   |  |
| FS 1679 PUSH AT EST 1687 PUSH AT EST 1687 PUSH BC CALL CD04A3 1683 CALL ACTIVATE CT 1684 POP BC EX BC  | 90.   | Laboration of the Control of the Con |
| CS 1661 PUSH BIC CS 1663 CALL ACTIVATE CD0443 1663 CALL CD0444 1663 CALL CD0443 1663 CALL CD0444 1663 CALL CD044 1665 POP BIC CS 1666 LD E, [HL] CS 1666 LD E, [HL] CS 1660 DJNZ CHPLX4 ; FT 1691 CMPLX9; POP ACT CS 1696 DJNZ CMPLX4 ; FT 1691 CMPLX9; POP ACT CD0572 1696 CALL CALL CALL CALL CMC CD0572 1696 DJNZ CMPLX4 ; FT 1691 CMPLX9; POP ACT CD0572 1696 LD CALL CALL CALL CALL CMC CD0572 1696 LD CALL CALL CALL CALL CALL CALL CALL CALL  |   |  |
| CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTIVATE CONTRACTOR CONTRACT | ESQ.  |  |
| CONCAS 1685 CALL ACTIVATE CONCAS 1685 POP HIL EVEN 1685 POP HIL EVEN 1685 POP HIL EVEN 1687 POP HIL EVEN 1687 POP HIL EVEN 1687 POP HIL EVEN 1689 POP HIL EV | - S   |  |
| CDOST 1665 POP NC E, IRL 1  23 1686 LD E, IRL 1  24 1686 LD E, IRL 1  25 1686 LD E, IRL 1  26 1689 LD DJNZ CHPLX ; FIL 1  27 1689 BC COMPLX ; FIL 1  28 1689 BC CML MODE CHLX ; FIL 1  29 1689 BC CML MODE CHLX BC CML INIT XP OS INC DJNZ CML INIT XP OS INC DE CML IN INIT XP OS INC DE CMD IN INIT XP OS INIT XP OS IN INIT XP OS  | 7.47  |  |
| FEET 1655 POP HL  54 1646 LD E, [HL]  55 1646 LD D, [HL]  56 1646 LD D, [HL]  57 1640 LD D, [HL]  67 1640 DJUZ CHPLX4 ;  FI 1649 CMPLX9: POP AF  CO 1649 ACT SENI EQU AF  1649 CMPLX9: RET ;TECHNICALLY SHO  1649 S, SUBCASE Seni Hobiile INIT XP OS  1650 LD A, [DE]  1670 LD A, [DE]  1670 LD A, [DE]  1670 LD A, [DE]  1670 LD A, [DE]  1700  | 200   |  |
| 1686   10  | - DO  |  |
| 23 1687 INC NI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 9   |  |
| 56 1688 LD D, [HL]  23 1689 LD DJNZ CMPLX4; 1050 1680 AF F1 1691 CMPLX9; POP AF F1 1693; RET ; TECHNICALLY SHO CD0572 1684 ACT SEMI EDU AF 1687 LD A, [DE] AF 1689 LD A, [DE] AF 1700 LD A, [DE] AF 1700 A, [DE] A, [DE | JNC   |  |
| 23 1689 INC HIL 10F0 1680 DJNZ CMPLX4 ; 11 1691 CMPLX9: PDP AF FT 1692 RET ;TECHNICALLY SHO CDG 72 1683 ; CDG 72 1684 ACT SEMI EQU CDG 72 1686 LD A, IDE 1 A 1689 LD  | 3   |  |
| 10FO 1690 DJMZ CMPLX4 ; F1 1691 CMPLX9: POP AF  C9 1682 RET ; TECHNICALLY SHO 1683 ; C06572 1694 ACT SEM1 EOU S 1695 ; SUBCASE Semi Mobile IMIT XP OS 1696 LD L, A 1697 LD L, A 1699 LD L, A 1699 LD L, A 1701 ADD LD A, LDE I 1702 LD L, A 1701 ADD A, L 1703 LD H, O 1704 ; AT THIS POINT: 1706 ; BC:FREE 1707 ; BC:-NUMGEN 1707 ; BC:-NUMGEN 1709 ; SUP FOR VRAM IMIT 1700 A, LODP MODE WORD 1707 ; DENUMGEN 1708 ; SUP FOR VRAM IMIT 1709 ; SUP FOR VRAM   | TKC TKC   |  |
| F1 1691 CMPLX9: POP AF 1692  C9 1693 RET ; TECHNICALLY SHO 1694 ACT SENI EQU 1695 ; SUBCASE Seni Mobile 1695 ; SUBCASE Seni Mobile 170   | DJNZ CMPLX4   |  |
| COGETY 1692 RET ; IECHMICALLI SING  -04E7 1694 ACT SEMI EQU  | CMPLX9: POP AF  | š  |
| CD0572 1694 ACT SEMI EQU S 100572 1696 CALL CALL INIT XP_OS 167 1697 CALL CALL A, IDE] 13 1699 LD A, IDE] 13 1699 LD A, IDE] 13 1699 LD A, IDE] 14 1700 LD A, IDE] 15 1703 LD A, IDE] 1704 AT THIS POINT: STACK-08J TYPE f, SUP VRAM FLG H=FIRST GEN LAMIE 1707 BC:>NUMGEN 1708 BC:FREE 1709 SUP FOR VRAM INIT F5 1711 POSH F5 1712 POSH F6 1714 AF 1716 POSH F7 1716 POSH F7 1716 POSH F7 1717 POSH F7 171 |   | <u> </u>   |
| CD0572 1695; SüBCASE Semi Mobile INIT XP_0S 167 1696 15 1696 15 1696 16 1, N   | ACT CENT FOUL   |  |
| CD0572 1696 CALL INIT XP_0S 1A 1697 LD A, IDE] 13 1699 LD A, IDE] 13 1699 LD A, IDE] 14 1700 LD A, IDE] 15 1700 LD A, IDE] 1700 LD A, IDE] 1700 LD A, IDE] 1701 LD A, IDE] 1702 LD A, IDE] 1703 LD A, IDE] 1704 AT THIS POINT STACK—08.1 TYPE f. SUP VRAM FLG 1706 HL=FIRST GEN MAIE 1707 BC -> NUMGEN 1708 BC : FREE 1709 SUP FOR VRAM INIT 1710 POP A, IVDP HODE WORD 1741 AF PUSH 175 PUSH 176 A, IVDP HODE WORD 176 BT 177 AF 177 PUSH 178 BT 177 AF 179 BT 17 | · SINCASE Semi Mobile   |  |
| 14 1697 LD A, IDE] 15 1699 LD L, A 13 1689 LD C, A 14 1700 LD A, LDE] 15 1700 LD A, LDE] 16 1701 ADD A, L 1702 LD A, L 1703 LD (11Y+5), A 1704 A1 THIS POINT: STACK=08J TYPE f, SUP VRAM FLG 1706 ; STACK=08J TYPE f, SUP VRAM FLG 1706 ; BC: FREE 1707 SUP FOR VRAM INIT 1708 ; SUP FOR VRAM INIT 1709 ; SUP FOR VRAM INIT 1710 POP A, L 1710 AF 1711 AF 1711 AF 1711 AF 1712 PUSH AF 1714 AF 1714 AF 1714 AF 1715 AT 1716 A, L 1716 A, L 1717 AF 1717 AF 1718 AF 1718 AF 1711 AF 171 | CALL INIT XP OS   | 80M  |
| 6F 1698 LD L,A 13 1689 INC DE 13 1700 LD A,L 6D A,L | 10 Y' (0E)  | IN NAME  |
| 13 1699 1NC DE 11A 1700 LD A, (DE1) 15D ADD A, (DE1) 15D 1703 LD (17+5), A 2600 1704 AT THIS POINT: 1705   H-FIRST GEN NAME 1706   H-FIRST GEN NAME 1707   SUP FOR VRAM INIT 1710   POP POP A, (VDP HODE WORD 1711   POS HOSEM AF 1711   POS HOSEM AF 1711   POS HOSEM AF 1711   POP A, (VDP HODE WORD 1711   AF 1712   PUSH AF 1714   1714   POSH AF 1715   POSH AF 1716   POSH AF 1717   POSH AF 1718   POSH AF 1719   POSH AF 1711   PO | 9   |  |
| 10 A, (DE1)  55 1701 ADD A, (LIT+51, A 2, (DE1)  1702 LD (117+51, A 1, OE1)  1704 AT THIS POINT: 1706 A HLEFIRST GEN NAME 1706 B CE-NUMGEN 1707 B CE-NUMGEN 1708 B CE-REE 1709 SUP FOR VRAM INIT 1710 AF 1711 AF 1711 AF 1712 PUSH AF 1714 AF 1714 AF 1714 AF 1715 BIT 1, A  | INC DE  |  |
| March   Marc   | (D) A, (DE)   |  |
| FD7705 1702 LD (17+5), A 2600 1703 LD H, 0 1704 ; AT THIS POINT: 1705 ; HL=FIRST GEN_NAME 1707 ; DE->NUMGEN 1708 ; BC:FREE 1709 ; SUP FOR VRAM INIT F1 1710 POP A, FOPP F5 1711 AF F5 1712 LD A, CVDP_MODE_WONE 1714 AF F6 1714 AF F7 1715 BUSH A, CVDP_MODE_WONE 644 1714 BIT 1, A  | 7'Y 00V   |  |
| 2600 1703 LD H, U 1704 ;AT THIS POINT: STACK=0BJ TYPE & SUP VRAN FLG 1705 ; HL=FIRST GEN_NAME 1707 ; DE->NUMGEN 1708 ; BC:FREE 1709 ; SUP FOR VRAN INIT F1 1710 POP AF F5 1711 AF F5 1712 PUSH AF SA73c3 1713 LD A, LVDP_MODE_WORD CB4F 1714 BIT 1,A   | V, (3+Y1) 01  | TRST GEN NAME + NUMBEN   |
| 1704, AT THIS POINT: 1705, HL=FIRST GEN_NAN 1706, HL=FIRST GEN_NAN 1707, DE->NUMGEN 1708, BC:FREE 1709; SUP FOR VRAN INIT F1 1710 JR 53338 1711 JR 545 1712 POSP 547 1714 BIT  | 0'H 07  | MARE   |
| 1705 ; STACK=08J TYPE 4, 1706 ; HL=FIRST GEN MAN 1706 ; DE-NUMGEN 1708 ; DE-NUMGEN 1709 ; SUP FOR VRAM INIT POP 1710 JR F5 1712 PUSH F5 1713 L0 PUSH 611   | ;AT THIS POINT:   |  |
| 1706; HI=FIRSI UEN_NAM<br>1707; DE-NUMGEN—<br>1708; BC;FRE<br>1709; SUP FOR VRAM INIT<br>1710 POP<br>1711 JR<br>175 1712 PUSH<br>1714 BIT  | ••  |  |
| 1706 ; BC: NUMBER 1709 ; SUP FOR VRAM INIT 1710 POP 1711 JR 1712 PUSH 1714 B11   |   |  |
| 1709; SUP FOR VRAM INIT 1709; SUP FOR VRAM INIT 1710 18 15 1711 18 1712 1713 1714 1811   |   |  |
| F1 1710 POP<br>3038 1711 JR<br>F5 1712 PUSH<br>3A73C3 1713 LO<br>CB4F 1714 B11   | SUP FOR VRAM I  |  |
| 3038 1711 JR<br>F5 1712 PUSH<br>3A73C3 1713 LO<br>CB4F 1714 B11  | POP AF  | NO 91  |
| F5 1712 PUSH 3A73C3 1713 L0 CB4F 1714 B11  | 87  |  |
| 3A73C3 1713 L0<br>CB4F 1714 B11  | PUSH  |  |
| CB4F 1714 BIT  | 07  | SRAPHICS MODE  |
|  | 118   |  |
|  | 07  | I SEE WHICH O  |

| ; GO GRI<br>; DE FIRST GEN HAME<br>; SV -> IMPIGEN<br>; CALC SUMRCE OFFSET             | PTRN GNRTRS FTRN GNRTRS FOR ROAD FROM VRAM SOUNCE BUFFER VRAM FLES FOR ROAD VRAM SOUNCE BUFFER a VRAM FLG, UNNEEDED]  | ### CONTROL CANTERS  7, A   | ; HL->NUMGEN<br>; IY=NUMGEN<br>; HL ->PIRN_GNRIRS<br>; SAVE FOR RESTORE   |
|--|---|---|---|
| 2, SEMI_GRI_<br>DE, H<br>B, H<br>C, L<br>C, L<br>H, O<br>H, H<br>H, H<br>H, H          | PUSH HI  INC BC ;HL  LD L,A  INC BC  LO L,A  INC BC  LD M,A  POP BC  POP BC  IT  POP IT  IT  POP ITEMS FROM VAM  INC BUFFER, PTRN GNRTRS  IT POP AF  INC BUFFER, PTRN GNRTRS  IT POP AF  INC BUFFER, PTRN GNRTRS  IT POP AF  IT POP AF |   | PE, HL<br>PE, HL<br>PC, (HL)<br>PC<br>PC<br>PC<br>PC<br>PC<br>PC<br>PC<br>PC<br>PC<br>PC                                    |
| A & & & C C C E & A  |   | FILL AS NEEDED TOP, MID, AND  JR  JR  CALL  BIT  JR  CALL  BIT  JR  CALL  BIT  JR  CALL  CALL  CALL  CALL  RI BOT  CALL  CALL  RI EXIT  RET                           | Hardle GRAPHICS MODE 1 ENI_GRI EX LD LD LD PUSH POPP INC LD LD LD LD LD LD LD LD PUSH POPP POPP POPP POPP POPP POPP POPP PO |
| 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 1725<br>1726<br>1726<br>1730<br>1731<br>1732<br>1735<br>1736<br>1736<br>1736<br>1736  |   | 2571<br>1758<br>1759<br>1763<br>1764<br>1768<br>1768<br>1770  |
| 04FB 2831<br>04FF EB<br>0500 44<br>0501 40<br>0502 6E<br>0502 6E<br>0506 29<br>0506 29 | 0509 E5<br>0504 03<br>0508 04<br>0508 04<br>0508 04<br>0508 04<br>0511 FDE1<br>0513 F1  | 0514 CB7F<br>0516 28034<br>0518 CD0594<br>0518 CD0568<br>0518 CB77<br>0520 2803<br>0522 CD0594<br>0525 CD0568<br>0528 CB6F<br>0528 CB6F<br>0528 CB0594<br>0527 CD0568 | 40530> 0530 EB 0531 4E 0532 0600 0532 0600 0537 23 0538 7E 0539 23 0538 65 0538 65  |

| Fri, 18 May 1984, 16:19                      |                       |
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| CONFIDENTIAL                                 |                       |
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| MEMLETT-PACKARD: ACTIVATE (c) Coleco, 1982 C |                       |
| ACTIVATE (                                   |                       |
| CARD:  | LINE                  |
| WLETT · PACI                                 | SOURCE LINE           |
| ¥  | E.                    |
| S .  | TION OBJECT CODE LINE |
| OS TPRIME: pOS                               | JECT (                |
| 2  | 80                    |
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PAGE 44

SIGNAL SPRITE PRIN GEN FILL AF A,1 PUT\_VRAM POP LD CALL RET 1943 1944 1945 1946 1947 1948 FILE: O

INCREMENT QUEUE HEAD

SOURCE LINE

LOCATION OBJECT CODE LINE

| 2008 2010 2011 2013 2013 2014 2015 2015 2016 2016 2017 2018 2019 2020 2021 2022 2023 2023 2028 2028 2028 2028 2029 2020 2021 2020 | Sautur SIZEI,A            | INIT QUEUE | HL, IPARAM AREA+1] | A, [PARAM AREA] | PARAM  |        | BC INIT ONEHE P | INIT QUEUEQ            |                    | RIPTOR FOR INIT QUEDEQ       |        | 2,1,-2        |             | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | INIT_QUEUE (SIZE:BYTE;VAR A QUEUE:QUEUE) |          |                    |              | [NEAD ADDRESS], DE         | COLEUE_HEAD],A |         | •               | SEL UP ENDIR | THE CHAIR | HL, (BUFFER) |                          | [QUEUE_HEAD], A | ٧,0    |      | NZ, NOT_TOO_BIG | (ML) | HL, QUEUE SIZE | IZE THEN | A : NEW HEAD IN A | A, [QUEUE HEAD] |  |
|---|---------------------------|------------|--------------------|-----------------|--------|--------|-----------------|------------------------|--------------------|------------------------------|--------|---------------|-------------|---------------------------------------|--|----------|--------------------|--------------|----------------------------|----------------|---------|-----------------|--------------|-----------|--------------|--------------------------|-----------------|--------|------|-----------------|------|----------------|----------|-------------------|-----------------|--|
| 2008<br>2010<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011  | : 3218                    |            | רס                 | 9               | CALL   | 9      |                 | GLB<br>INIT QUEUEQ EOU | * BEGIN INIT QUEUE | " THIS IS THE PARAMETER DESC | 1      |               | DESTROYS: A | * SIZE PASSED IN A LOCATION           |  | RET      | * END SET_UP_WRITE | SET UP ENDIF | * STORE HEAD ADDRESS<br>LD | 2              | STORE   | 100 816         | FISF         | =         | 99           | * HEAD ADDRESS := BUFFER | 9               | 9:     |      | *               | ಕಿ   | 9              |          | INC               | 93              |  |
| A   | 2059 • 2060 • 2061 • 2062 | 2057       | 2055               | 502             | 2053   | 202    |                 |                        |                    |                              |        | 2045          |             |                                       |  | 2020     |                    |              | 2031                       | 200            |         | 9202            |              | 2023      | 2022         | 2020                     | 2019            | 707    | 2016 | 2014            | 2013 | 2012           | 2011     | 2009              | 2008            |  |
| 0633 34<br>0634 21<br>0637 88<br>0637 88<br>0637 32<br>0642 22<br>0648 10<br>0646 C9<br>0646 C9<br>0655 010<br>0655 010<br>0655 010<br>0655 010   |                           |            | 2A7388             | 3A73BA          | 860000 | 11738A | 01064F          | <0655>                 |                    |                              | 3 FFFE | 064F 00020001 |             |                                       |  | בר<br>בר | 5                  | w.           | 064A ED5373CD              | 0647 3273CB    | 7 22762 | <b>&lt;0647</b> |              | 0645 1807 | 2 227300     | 16 247401                | אר זכו זר       | A SEUC |      |                 |      |                |          | 33 3c             | 0630 3A73CB     |  |

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|  |                           |  |   |                  |   |  |                                 |   |   |  |                 |   |                              |  |
| F  |                           |  |   |                  |   |  |                                 |   |   | JINTER   | _               | ;SAVE QUEUE TAIL ADDRESS                          |                              |  |
| FIDENTIAL  |                           |  | *   |                  |   |  |                                 |   |   | GET OBJECT POINTER   | ; GET PARAMETER | QUEUE TAI   |                              |  |
| NO.  |                           |  | מאוני באוני   |                  |   |  |                                 |   |   | 3  | GET             | SAVE  |                              |  |
| 1982   |                           | <b>ح ح</b>                                 | 87 E E E  |                  |   |  | ES                              | ۷,۲   | )<br>   | ESS]   | ••              | **  |                              |  |
| BJ (c)Coleco   |                           | A, 0<br>(QUEUE_HEAD), A<br>(QUEUE_TAIL), A | := TAIL_ADDRESS := HEAD_ADDRESS := LOCATION LD [BUFFER], HL LD [HEAD_ADDRESS], HL LD [TAIL_ADDRESS], HL |                  | 19  | WRITER_S                                   | A, (DEFER_WRITES)<br>AF         | A, FALSE<br>[DEFER_WRITES],A  | QUEUE_HEAD DO  A, TQUEUE_TAIL]  HI, QUEUE_HEAD  INL]  Z, WRTR_END_WHILE | TO VRAN<br>HL, (TAIL_ADDRESS)<br>E, (ML)<br>HL<br>D, (ML)  | B, (ML.)        | DE<br>IX<br>HL<br>DO_PUTOBJ                       | A, (QUEUE_TATL)<br>A         | THEN<br>HL, QUEUE_SIZE                     |
| 10   |                           |  | ¥<br>!!   |                  |   |  |                                 |   | 3   |  |                 |   | < <                          | 12E<br>H                                   |
| PUT/DEFRD PL   |                           | 999  | IL ADDRESS :  | RET              | URITER_<br>URANETERS  | 61.8<br>EQU                                | FLAG<br>LD<br>PUSH              | := FALSE<br>10<br>10  | ٥   | WRITE DATA AT QUEUE_TAIL LD LD LO LO LO LO LO  |                 | PROCESS OBJECT IN OUR DE POP PUSH CALL            | QUEUE_TAIL<br>LD<br>INC      | IF QUEUE_TAIL = QUEUE_SIZE THEN LD HL, QUI |
| HEWLETT-PACKARD: PUT/DEFRD PUT OBJ (c)Coleco 1982 CONFIDENTIAL | SOURCE LINE               |  | BUFFER := 1A  | * END INIT_QUEUE | * PROCEDURE URITER_<br>* TAKES NO PARAMETERS<br>* DESTROYS: ALL | 2061 * BEGIN URITER<br>2062<br>2063 URITER | SAVE DEFERAL FLAG<br>LD<br>PUSH | DEFER_URITES := FALSE 10 1D   | MRTR_UNILE GUEUE_TAIL LD LD LD CP CP JR                                 | WRITE DATA   | 1               | riocess of  | INCREMENT QUEUE_TAIL LD INC  | IF QUEUE_TA                                |
| ¥  | a¥                        | 2065                                       | * 898.256<br>898.2566<br>898.2566   |                  |   |  | * 2253                          | *<br>*  |   | *<br>0-25  | *               |   |                              | •  |
|  | E LI                      | 3888                                       |   | 222              | 2078<br>2078<br>2078<br>2080                                    |  | 2222                            | \$ 50 50<br>50 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | 2000 000 000 000 000 000 000 000 000 00                                 | 2502<br>2103<br>2103<br>2104<br>2103<br>2104<br>2104<br>2104<br>2104<br>2104<br>2104<br>2104<br>2104 | 2108            | 2112 2113 2114 2115 2115 2115 2115 2115 2115 2115 | 2115<br>2116<br>2117<br>2118 | 2119                                       |
| FILE: 05_7PRIME:p0S  | LOCATION OBJECT CODE LINE | 0667 3E00<br>0669 3273CB<br>066C 3273CC    | 227301<br>227300<br>2273CF  | ಕ್ಷಿ             |   | <0.67%                                     | 0679 3A73C6<br>067C F5          | 0670 3E00<br>067f 3273C6  | <0682><br>3A73CC<br>2173CB<br>BE<br>2831                                | 2473CF<br>23<br>23<br>34   | 132             | 05<br>00E1<br>E5<br>C006E3                        | 0698 3A73CC<br>069E 3C       | 069F 2173CA                                |
| ::<br>8  | A110                      | 0667<br>0669<br>0665                       | 066F<br>0675<br>0675  | 62 8780          |   |  | 88.2                            | 86.7<br>87.7  | 0688  | 0696<br>0697<br>0690   | 0692            | 0694<br>0695<br>0697<br>0698                      | 3690<br>069E                 | 369F                                       |
| Ħ  | 91                        |  |   |                  |   |  |                                 |   |   |  | 01-72ATB        | 1000 1000 1000 1000 1000 1000 1000 100            | 11 <del>33213</del> 0        | •  |

|   | VRIME:pOS > HEWLETT-PACKARD: PUI/DEFRD PUI OBJ (c)Coleco 1982 CONFIDENTIAL Fri, 18 May<br>LIECT CODE LINE SOURCE LINE | OF 2122 JR NZ, WRIR_ELSE |                          | \$1                    | <0683> | 2136 2137 * STORE NEW QUEUE_TAIL [QUEUE_TAIL],A 2139 | , 10                   | <068A>       | <pre>&lt;068C&gt; 2149 URIR END_UNILE EQU</pre> | 9 |                 | 2170 * THIS IS THE PASCAL ENTRY POINT TO THE PUTOBJ ROUTINE 2171 2172 PROG 2173 PUTOBJQ: 0106C1 2174 LD BC,PUTOBJ PAR |
|---|---|--------------------------|--------------------------|------------------------|--------|--|------------------------|--------------|---|---|-----------------|---|
| 6: 05_77  A110N 06  06A3 20  06A3 20  06A4 34  06A4 24  06A4 24  06A4 18  06A6 11  06A6 11  06A6 11  06A7 32  06A7 32 | FILE: OS_TPRIME:pOS<br>LOCATION OBJECT CODE   | BE<br>200E               | 06A5 3E00<br>06A7 3273CC | 2A7301<br>2273CF<br>E1 |        | 0683 3273CC  | 0686 E1<br>0687 2273CF | 12 12 300 12 | <068C>  |   | 06C1 00020002 2 |   |

```
A, [DEFER_WRITES] ; CHECK IF DEFERRED WRITE IS DESIRED DEFER NZ, DO PUTOBJ ; IF NOT, PROCESS OBJECT SET_UP_WRITE ; IF SO, SET_UP FOR DEFERRED WRITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GET ADDRESS OF GRAPHICS FOR OBJ.
* HEWLETT-PACKARD: PUI/DEFRO PUT 08J (C)Coleco 1982 COMFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;A := 08J TYPE
;SAVE COPY
;MASK FOR 08J TYPE MUNBER
;0 = SENI_MOBILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;3 = SPRITE1
;>3 = COMPLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;1 = MOBILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;2 * SPRITEO
                                                                                                                                      IX, [PARAM AREA]
A, [PARAM AREA+2]
B,A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP Z, PUTSEM!
DEC A
JP Z, PUT_MOBILE
DEC A
JP Z, PUTOSPRITE
DEC A
JP Z, PUTISPRITE
JP Z, PUTISPRITE
                                                                                                                          2177 LD IX, [PARAM A 2176 LD A, [PARAM A 2179 LD B, A 2179 LD B, A 2180 LD B, A 3180 LD B, A 318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; busine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LD L, CIX+0]
LD A, ENL]
LD C,A
AND OFH
                                                                           SOURCE LINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2197
2198
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2202
2203 PR0G
                                                                           LOCATION OBJECT CODE LINE
   FILE: 05 TPRIME: p05
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0604 3A73BC
0607 47
                                                                                                                                                                                                                                                                                                                               0608 3473C6
0608 3473C6
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0662 C9
0663 D06601
0668 606
0668 606
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LOCATION OBJECT CODE LINE

SOURCE LINE

| DESCRIPTION: PUTS SEMI MOBILE OBJECTS ON SCREEN  INPUT: IX = ADDRESS OF OBJECT TO BE PROCESSED  HL = ADDRESS OF OBJECT TO REPROCESSED  CLB PUTSEMI | GET ADDRESS OF STATUS  AND PUT INTO IT  GET X_LOCATION   | GET Y LOCATION  B := PATTERN PLANE COL.  | LD E, [IY+0] ;GET FRANE NAMBER GRAPHICS_n, IX = 08J_n, IY = STATUS_n, C = COL., B = ROW, E = FRANE LD D,0 ,DE HAS FRANE NUMBER | ; 2*FRAME WUMBER + ADDR OF GRAPHICS_n; FRAME POINTER OFFSET; HL WOW POINTS TO LOCATION HOLDING ADDRESS; OF FRAME; GET ADDRESS OF FRAME; HL := ADDRESS OF FRAME; DE := Y PAT POS & K PAT POS | -  | GET HIGH BYTE OF OLD SCREEN ADDRESS; TEST BIT 15 OF OLD SCREEN ADDRESS                                   |
|--|--|--|--|---|--|--|
| DESCRIPTION: PUTS SEMI_MOB<br>INPUT: IX = ADDRESS OF THE SEMI_MOB<br>GLB   | 2216 PUISEMI: LD D, [IX+3] 2217 LD E, [IX+2] 2218 PUSH DE 2219 POP IY 2220 LD D, [IY+2] 2221 LD E, [IY+1] 2221 CALL PX_IO_PIRN_POS | LD C, E LD D, (IY+4) LD E, (IY+3) CALL PX_TO_PTRN_POS  | H = GRAPHICS_n, IX = 08J_n, 10 0,0   | n @   | LD C, [HL] INC HL LD B, [HL] INC HL ; TEST TO SEE IF OLD SCREEN IS | 255 1D A, [1X+5] 225 JR 2, S OLD SCRN . 2256 CALL PUFFRAME 2258 RET 2259 RET                             |
|  | 06FF D05603 2216 1 0702 D05E02 2217 0705 D5 2217 0706 FDE1 2219 0708 FD5602 2221 0706 FD5E01 2221 0706 CD07EB 2222                 | 2223<br>0711 48 2224<br>0712 FD5604 2225<br>0715 FD5E03 2225<br>0718 CD07FB 2226<br>0718 43 2228 | 1600<br>1600   | 5   |  | 0730 007E05 2253<br>0733 CB7F 2254<br>0735 2804 2255<br>0737 C0080B 2257<br>073A C9 2257<br>073A C9 2258 |