

1 RAM DOS version exeldos 1.4

2 -----

3

4

5 D000 d1d755aa

6

7 D004 8ec849 CALL \$C849

8 D007 8ec849 CALL \$C849

9 D00A 8ec849 CALL \$C849

10 D00D 8ec849 CALL \$C849

11

12 -----

13

14 -----

15 D010 8cd341 BR \$D341

16

17

18 Execution d'une commande

19

20 D013 8cd34c BR \$D34C

21

22 -----

23

24 -----

25 D016 8ec849 CALL \$C849

SAMOS routine de pagination speciale appel CROS

26 D019 8ec849 CALL \$C849

27 D01C 8ec849 CALL \$C849

28 D01F 8ec849 CALL \$C849

29 D022 8ec849 CALL \$C849

30 D025 8ec849 CALL \$C849

31 D028 8ec849 CALL \$C849

32 D02B 8ec849 CALL \$C849

33 D02E 8ec849 CALL \$C849

34 D031 8ec849 CALL \$C849

35 D034 8ec849 CALL \$C849

36 D037 8ec849 CALL \$C849

37 D03A 8ec849 CALL \$C849

38 D03D 8ec849 CALL \$C849

39 D040 8ec849 CALL \$C849

40 D043 8ec849 CALL \$C849

41 D046 8ec849 CALL \$C849

42 D049 8ec849 CALL \$C849

43 D04C 8ec849 CALL \$C849

44 D04F 8ec849 CALL \$C849

45 D052 8ec849 CALL \$C849

46 D055 8ec849 CALL \$C849

47 D058 8ce5e5 BR \$E5E5

48

49 -----

50

51 -----

52 D05B 8ce3ea BR \$E3EA

53 D05E 8cd325 BR \$D325

54 D061 8cea6a BR \$EA6A

55

56 -----

57

58 -----

59 D064 8ec849 CALL \$C849

60 D067 8ec849 CALL \$C849

61 D06A 8ec849 CALL \$C849

62

63 -----

64

65 -----

66 D06D 8cd082 BR \$D082

67 D070 8ce7b4 BR \$E7B4

68 D073 8cea73 BR \$EA73

69 D076 8cea73 BR \$EA73

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70 D079 8cea73 BR $EA73
71 D07C 8cea73 BR $EA73
72 D07F 8cd0a5 BR $D0A5
73
74 -----
75
76 -----
77 D082 d90e POP R14
78 D084 d90d POP R13
79 D086 06 DINT
80 D087 5260 MOV %>60,B
81 D089 aa001f LDA @>001F(B) <-
82 D08C d011 MOV A,R17
83 D08E 9a10 LDA *R16
84 D090 ab001f STA @>001F(B)
85 D093 1211 MOV R17,A
86 D095 9b10 STA *R16
87 D097 db10 DECD R16
88 D099 caee DJNZ B,$D089 ----
89 D09B 09 STSP
90 D09C 62 MOV B,A
91 D09D 9b10 STA *R16
92 D09F 525a MOV %>5A,B
93 D0A1 0d LDSP
94 D0A2 05 EINT
95 D0A3 9c0e BR *R14
96
97 -----
98
99 -----
100 D0A5 d90e POP R14
101 D0A7 d90d POP R13
102 D0A9 06 DINT
103 D0AA 5260 MOV %>60,B
104 D0AC aa001f LDA @>001F(B) <-
105 D0AF d011 MOV A,R17
106 D0B1 9a10 LDA *R16
107 D0B3 ab001f STA @>001F(B)
108 D0B6 1211 MOV R17,A
109 D0B8 9b10 STA *R16
110 D0BA db10 DECD R16
111 D0BC caee DJNZ B,$D0AC ----
112 D0BE 9a10 LDA *R16
113 D0C0 c0 MOV A,B
114 D0C1 e0de JMP $D0A1 ----> LDSP, EINT, BR *R14
115
116 -----
117
118 -----
119 D0C3 76011303 BTJO %>01,R19,$D0CA - R19=file attribute in PAB
120 D0C7 d728 SWAP R40
121 D0C9 0a RETS -----|----> retour
122 D0CA 9a10 LDA *R16 <-----
123 D0CC db10 DECD R16
124 D0CE b0 TSTA
125 D0CF 0a RETS
126
127 -----
128 Ecriture ram CPU ou VDP
129 -----
130 D0D0 76011303 BTJO %>01,R19,$D0D7 - R19=file attribute in PAB
131 D0D4 822e MOVP A,P46
132 D0D6 0a RETS -----|----> retour
133 D0D7 9b0e STA *R14 <----- R14=vdp write address pointer for trap
134 D0D9 db0e DECD R14
135 D0DB b0 TSTA
136 D0DC 0a RETS
137
138 -----

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```

139
140 -----
141 D0DD 9a28      LDA    *R40      R40=pointer to the sector buffer
142 D0DF d024      MOV    A,R36
143 D0E1 d328      INC    R40      R40=pointer to the sector buffer
144 D0E3 9a28      LDA    *R40      R40=pointer to the sector buffer
145 D0E5 d025      MOV    A,R37
146 D0E7 d328      INC    R40      R40=pointer to the sector buffer
147 D0E9 9a28      LDA    *R40      R40=pointer to the sector buffer
148 D0EB d328      INC    R40      R40=pointer to the sector buffer
149 D0ED 790027    ADC    %>00,R39
150 D0F0 d040      MOV    A,R64
151 D0F2 e20b      JEQ    $D0FF
152 D0F4 8ec83a    CALL   $C83A
153 D0F7 d325      INC    R37
154 D0F9 790024    ADC    %>00,R36
155 D0FC da40f5    DJNZ  R64,$D0F4
156 D0FF 0a        RETS
157
158 -----
159
160 -----
161 D100 98383c    MOVD   R56,R60
162 D103 72113c    MOV    %>11,R60
163 D106 88000036 MOVD   %>0000,R54
164 D10A d534      CLR    R52
165 D10C 9a3c      LDA    *R60
166 D10E e23f      JEQ    $D14F
167 D110 2dff      CMP    %>FF,A
168 D112 e220      JEQ    $D134
169 D114 d554      CLR    R84
170 D116 5208      MOV    %>08,B
171 D118 bd        RRC    A
172 D119 e70f      JL     $D12A
173 D11B cafb      DJNZ  B,$D118
174 D11D 4d5434    CMP    R84,R52
175 D120 e312      JHS   $D134
176 D122 425434    MOV    R84,R52
177 D125 983c36    MOVD   R60,R54
178 D128 e00a      JMP    $D134
179 D12A d354      INC    R84
180 D12C c2        DEC    B
181 D12D e2ee      JEQ    $D11D
182 D12F bd        RRC    A
183 D130 e3eb      JHS   $D11D
184 D132 e0f6      JMP    $D12A
185 D134 d33c      INC    R60
186 D136 7db03c    CMP    %>B0,R60
187 D139 e7d1      JL     $D10C
188 D13B 1234      MOV    R52,A
189 D13D e602      JNE   $D141
190 D13F b3        INC    A
191 D140 0a        RETS
192
193 -----
194
195 -----
196 D141 98363c    MOVD   R54,R60
197 D144 8ed14f    CALL   $D14F
198 D147 db25      DECD   R37
199 D149 8ed165    CALL   $D165
200 D14C e6fb      JNE   $D149
201 D14E 0a        RETS
202
203 -----
204
205 -----
206 D14F 7a103c    SUB    %>10,R60
207 D152 423c25    MOV    R60,R37

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208 D155 d524 CLR R36
209 D157 df25 CLR R37
210 D159 df24 CLR R36
211 D15B df25 CLR R37
212 D15D df24 CLR R36
213 D15F df25 CLR R37
214 D161 df24 CLR R36
215 D163 b5 CLR A
216 D164 0a RETS
217
218 -----
219
220 -----
221 D165 d325 INC R37
222 D167 790024 ADC %>00,R36
223 D16A 8ec84f CALL $C84F
224 D16D 67f4 BTJZ B,A,$D163
225 D16F b0 TSTA
226 D170 0a RETS
227
228 -----
229 D170 0a 53 4f 52 43 04 d2 0d 00 00 ff fc 00 48 59 41 .SORC.....HYA
230 D180 53 03 d2 1f ff fa ff fc 00 48 45 52 4f 54 53 45 S.....HEROTSE
231 D190 52 07 d2 ab ff f6 ff fc 00 48 46 4f 45 03 d1 d8 R.....HFOE...
232 D1A0 ff fa ff fc 00 48 53 4f 44 03 e3 4c ff fa ff fc .....HSOD..L....
233 D1B0 00 48 4f 44 02 d2 19 ff fb ff fc 00 48 44 41 4f .HOD.....HDAO
234 D1C0 4c 04 d2 25 ff f9 ff fc 00 48 45 47 52 45 4d 05 L..%.....HEGREM.
235 D1D0 d2 13 ff f8 ff fc 00 48 7d f0 26 e6 22 8e d2 ee .....H}.&."...
236 -----
237
238 -----
239
240 -----
241 D1D7 487df0 ADD R125,R240
242 D1DA 26e622 BTJO %>E6,A,$D1FF
243 D1DD 8ed2ee CALL $D2EE
244 D1E0 7dad26 CMP %>AD,R38
245 D1E3 e61a JNE $D1FF
246 D1E5 8ed257 CALL $D257
247 D1E8 76ff2613 BTJO %>FF,R38,$D1FF
248 D1EC 72021e MOV %>02,R30 R30=command code
249 D1EF 8ed34c CALL $D34C
250 D1F2 76ff160f BTJO %>FF,R22,$D205 R22=i/o operation status
251 D1F6 98104f MOVD R16,R79
252 D1F9 8ed264 CALL $D264
253 D1FC 8cd25f BR $D25F
254 D1FF 2201 MOV %>01,A
255 D201 e8 TRAP 23
256 D202 221d MOV %>1D,A
257 D204 e8 TRAP 23
258 D205 2200 MOV %>00,A
259 D207 d51d CLR R29
260 D209 e8 TRAP 23
261 D20A 2218 MOV %>18,A
262 D20C e8 TRAP 23
263 D20D 88d0bc0e MOVD %>D0BC,R14 R14=vdp write address pointer for trap
264 D211 e016 JMP $D229
265 D213 88d0860e MOVD %>D086,R14 R14=vdp write address pointer for trap
266 D217 e010 JMP $D229
267 D219 88d0d30e MOVD %>D0D3,R14 R14=vdp write address pointer for trap
268 D21D e00a JMP $D229
269 D21F 88d0c80e MOVD %>D0C8,R14 R14=vdp write address pointer for trap
270 D223 e004 JMP $D229
271 D225 88d0af0e MOVD %>D0AF,R14 R14=vdp write address pointer for trap
272 D229 8ac00a LDA @>C00A
273 D22C 8bc00f STA @>C00F
274 D22F 8ac00b LDA @>C00B
275 D232 8bc010 STA @>C010
276 D235 88c88b01 MOVD %>C88B,R1

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277 D239 8bc00a STA @>C00A
278 D23C b6 XCHB A
279 D23D 8bc00b STA @>C00B
280 D240 8cc888 BR $C888
281 D243 722c0e MOV %>2C,R14 R14=vdp write address pointer for trap
282 D246 8cc813 BR $C813
283 D249 72060e MOV %>06,R14 R14=vdp write address pointer for trap
284 D24C e0f8 JMP $D246
285 D24E 1226 MOV R38,A
286 D250 52b0 MOV %>B0,B
287 D252 722e0e MOV %>2E,R14 R14=vdp write address pointer for trap
288 D255 e0ef JMP $D246
289 D257 8ed243 CALL $D243
290 D25A 722a0e MOV %>2A,R14 R14=vdp write address pointer for trap
291 D25D e0e7 JMP $D246
292 D25F 72000e MOV %>00,R14 R14=vdp write address pointer for trap
293 D262 e0e2 JMP $D246
294 D264 720c0e MOV %>0C,R14 R14=vdp write address pointer for trap
295 D267 8ec813 CALL $C813
296 D26A 77804e25 BTJZ %>80,R78,$D293
297 D26E 88420645 MOVD %>4206,R69
298 D272 88553647 MOVD %>5536,R71
299 D276 88000049 MOVD %>0000,R73
300 D27A 98494b MOVD R73,R75
301 D27D 721c0e MOV %>1C,R14 R14=vdp write address pointer for trap
302 D280 e0c4 JMP $D246
303 D282 8ed243 CALL $D243
304 D285 8ed24e CALL $D24E
305 D288 8ed249 CALL $D249
306 D28B 76ff5810 BTJO %>FF,R88,$D29F
307 D28F 76ff4e0c BTJO %>FF,R78,$D29F
308 D293 0a RETS
309
310 -----
311
312 -----
313 D294 8ed243 CALL $D243
314 D297 8ed24e CALL $D24E
315 D29A 72080e MOV %>08,R14 R14=vdp write address pointer for trap
316 D29D e0a7 JMP $D246
317 D29F 8cd202 BR $D202
318 D2A2 8cd20a BR $D20A
319 D2A5 8cd1ff BR $D1FF
320 D2A8 8cd205 BR $D205
321 D2AB 7df026 CMP %>F0,R38
322 D2AE e6f5 JNE $D2A5
323 D2B0 8ed2ee CALL $D2EE
324 D2B3 8800001c MOVD %>0000,R28
325 D2B7 7d0026 CMP %>00,R38
326 D2BA e20f JEQ $D2CB
327 D2BC 7dad26 CMP %>AD,R38
328 D2BF e6e4 JNE $D2A5
329 D2C1 8ed294 CALL $D294
330 D2C4 76ff26dd BTJO %>FF,R38,$D2A5
331 D2C8 984f1c MOVD R79,R28
332 D2CB 72051e MOV %>05,R30 R30=command code
333 D2CE 981c10 MOVD R28,R16
334 D2D1 8ed34c CALL $D34C
335 D2D4 76ff16d0 BTJO %>FF,R22,$D2A8
336 D2D8 8ed2f4 CALL $D2F4
337 D2DB 98100e MOVD R16,R14 R14=vdp write address pointer for trap
338 D2DE 78030e ADD %>03,R14 R14=vdp write address pointer for trap
339 D2E1 79000d ADC %>00,R13
340 D2E4 f7 TRAP 8
341 D2E5 121c MOV R28,A
342 D2E7 822e MOVP A,P46
343 D2E9 121b MOV R27,A
344 D2EB 822e MOVP A,P46
345 D2ED 0a RETS

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346
347 -----
348
349 -----
350 D2EE 8ed282    CALL    $D282
351 D2F1 424f1d    MOV     R79,R29
352 D2F4 8ac1ef    LDA    @>C1EF
353 D2F7 c0        MOV     A,B
354 D2F8 8ac1ee    LDA    @>C1EE
355 D2FB e2a5      JEQ    $D2A2
356 D2FD 5806      ADD    %>06,B
357 D2FF 2900      ADC    %>00,A
358 D301 980110    MOVD   R1,R16
359 D304 f5        TRAP   10
360 D305 d728      SWAP   R40
361 D307 1d1d      CMP    R29,A
362 D309 e60a      JNE    $D315
363 D30B db10      DECD   R16
364 D30D db10      DECD   R16
365 D30F f5        TRAP   10
366 D310 d728      SWAP   R40
367 D312 d01f      MOV    A,R31
368 D314 0a        RETS
369
370 -----
371
372 -----
373 D315 7a0610    SUB    %>06,R16
374 D318 7b000f    SBB    %>00,R15
375 D31B f5        TRAP   10
376 D31C d728      SWAP   R40
377 D31E c0        MOV    A,B
378 D31F d728      SWAP   R40
379 D321 e2d8      JEQ    $D2FB
380 D323 e0d8      JMP    $D2FD
381 D325 8802ff01  MOVD   %>02FF,R1
382 D329 8ed4a9    CALL   $D4A9
383 D32C 8a02cc    LDA    @>02CC
384 D32F e209      JEQ    $D33A
385 D331 d03b      MOV    A,R59
386 D333 8a02cd    LDA    @>02CD
387 D336 d03c      MOV    A,R60
388 D338 9e3c      CALL   *R60
389 D33A 8802ff01  MOVD   %>02FF,R1
390 D33E 8cd513    BR     $D513
391
392 -----
393
394 -----
395 D341 73f013    AND    %>F0,R19    R19=file attribute in PAB
396 D344 7d8014    CMP    %>80,R20
397 D347 e703      JL     $D34C
398 D349 740113    OR     %>01,R19    R19=file attribute in PAB
399
400 -----
401 Execution d'une commande
402 -----
403 D34C 8802ca01  MOVD   %>02CA,R1    02CA=saved interrupt3 mem map number
404 D350 8ed4a9    CALL   $D4A9
405 D353 d516      CLR    R22          R22=i/o operation status
406 D355 c5        CLR    B
407 D356 aa065a    LDA    @>065A(B) <----- last key
408 D359 2d02      CMP    %>02,A
409 D35B e603      JNE    $D360 -----
410 D35D 72ff16    MOV    %>FF,R22    |
411 D360 1d1f      CMP    R31,A <---  | '1'
412 D362 e213      JEQ    $D377 -----
413 D364 5803      ADD    %>03,B      |
414 D366 5d30      CMP    %>30,B      |

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```

415 D368 e7ec JL $D356 -----|--
416 D36A 7d641f CMP %>64,R31 | unite 1
417 D36D e203 JEQ $D372 ---- |
418 D36F 7d651f CMP %>65,R31 | unite 2
419 <-----|
420 D372 e603 JNE $D377 ----->|
421 D374 8cd3ec BR $D3EC -----|-->
422 D377 5206 MOV %>06,B <-----
423 D379 aa06e5 LDA @>06E5(B) <--
424 D37C ab06f1 STA @>06F1(B) |
425 D37F caf8 DJNZ B,$D379 -----
426 D381 5204 MOV %>04,B
427 D383 aa02c6 LDA @>02C6(B) <--
428 D386 ab02eb STA @>02EB(B) |
429 D389 caf8 DJNZ B,$D383 -----
430 D38B 8a068d LDA @>068D
431 D38E 8b068b STA @>068B
432 D391 8ed493 CALL $D493
433 D394 88026010 MOVD %>0260,R16
434 D398 8ed082 CALL $D082
435 D39B 8ed49e CALL $D49E
436 D39E 7d021f CMP %>02,R31
437 D3A1 e61b JNE $D3BE -----> traitement erreur
438 D3A3 76ff1617 BTJO %>FF,R22,$D3BE --> traitement erreur
439 D3A7 8ec80d CALL $C80D
440 D3AA 8ed493 CALL $D493 <-----
441 D3AD 88026010 MOVD %>0260,R16
442 D3B1 8ed0a5 CALL $D0A5
443 D3B4 8ed49e CALL $D49E
444 D3B7 8802ef01 MOVD %>02EF,R1
445 D3BB 8cd513 BR $D513 -----|--
446 D3BE d516 CLR R22 | R22=i/o operation status
447 D3C0 8ed598 CALL $D598 | positionnement pointeurs lecture/ecriture vdp
448 D3C3 8ed49e CALL $D49E
449 D3C6 88065a28 MOVD %>065A,R40 | R40=pointer to the sector buffer
450 D3CA 5210 MOV %>10,B
451 D3CC 9a28 LDA *R40 <--- | R40=pointer to the sector buffer
452 D3CE e209 JEQ $D3D9 ---|--
453 D3D0 1d1f CMP R31,A | |
454 D3D2 e20a JEQ $D3DE ---|---|---|---
455 D3D4 780328 ADD %>03,R40 | | | R40=pointer to the sector buffer
456 D3D7 caf3 DJNZ B,$D3CC - | |
457 D3D9 72ff16 MOV %>FF,R22 <-- |
458 D3DC e0cc JMP $D3AA -----|
459 D3DE d328 INC R40 <-----> R40=pointer to the sector buffer
460 D3E0 9a28 LDA *R40 | R40=pointer to the sector buffer
461 D3E2 c0 MOV A,B
462 D3E3 d328 INC R40 | R40=pointer to the sector buffer
463 D3E5 9a28 LDA *R40 | R40=pointer to the sector buffer
464 D3E7 b6 XCHB A
465 D3E8 9e01 CALL *R1
466 D3EA e0be JMP $D3AA
467
468 -----
469
470 -----
471 D3EC d516 CLR R22
472 D3EE 5206 MOV %>06,B
473 D3F0 aa06e5 LDA @>06E5(B) <-
474 D3F3 ab06eb STA @>06EB(B) | sauvegarde vecteurs interruption
475 D3F6 caf8 DJNZ B,$D3F0 ----
476 D3F8 5204 MOV %>04,B
477 D3FA aa02c6 LDA @>02C6(B) <-
478 D3FD ab02db STA @>02DB(B) | sauvegarde numeros de pages
479 D400 caf8 DJNZ B,$D3FA ----
480 D402 8a068d LDA @>068D
481 D405 8b068c STA @>068C
482 D408 7d0a1e CMP %>0A,R30 | R30=command code
483 D40B e60a JNE $D417 -----

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```

484 D40D 8802df01 MOVD  %>02DF,R1  |
485 D411 8ed513  CALL  $D513  |
486 D414 8ce3fa  BR    $E3FA  -----|--->
487 D417 88efbf10 MOVD  %>EFBF,R16 <-
488 D41B 8ed082  CALL  $D082
489 D41E 8aef59  LDA   @>EF59          n° de piste lecteur A
490 D421 d523    CLR   R35           R35=disk side number(b0)/drive number(b7)
491 D423 720151  MOV   %>01,R81
492 D426 720252  MOV   %>02,R82
493 D429 88ec0038 MOVD  %>EC00,R56
494 D42D 7d641f  CMP   %>64,R31       R31=device number
495 D430 e210    JEQ   $D442  -----
496 D432 8aef58  LDA   @>EF58          n° de piste lecteur B
497 D435 748023  OR    %>80,R35       R35=disk side number(b0)/drive number(b7)
498 D438 720451  MOV   %>04,R81
499 D43B 720852  MOV   %>08,R82
500 D43E 88eb0038 MOVD  %>EB00,R56
501 D442 d022    MOV   A,R34 <----- R34=track number passed to FDC
502 D444 c0      MOV   A,B
503 D445 8ac0c9  LDA   @>C0C9         saved disk status
504 D448 2401    OR    %>01,A         1770 track register select
505 D44A 8240    MOVP  A,P64         P64=drive status register
506 D44C 9241    MOVP  B,P65         P65=i/o write register
507 D44E 8ed598  CALL  $D598         positionnement pointeurs lecture/ecriture vdp
508 D451 321e    MOV   R30,B        R30=command code
509 D453 5d08    CMP   %>08,B
510 D455 e70a    JL    $D461  -----
511 D457 5d11    CMP   %>11,B
512 D459 e733    JL    $D48E  -----|----> erreur 0D=unsupported command
513 D45B 5a09    SUB   %>09,B
514 D45D 5d0c    CMP   %>0C,B
515 D45F e32d    JHS   $D48E  -----|----> erreur 0D=unsupported command
516 D461 ce      RL    B <-----
517 D462 aad5ab  LDA   @>D5AB(B)
518 D465 b8      PUSH  A
519 D466 aad5aa  LDA   @>D5AA(B)
520 D469 c9      POP   B
521 D46A 9e01    CALL  *R1           traitement de la commande
522 D46C 1222    MOV   R34,A        R34=track number passed to FDC
523 D46E 76802305 BTJO  %>80,R35,$D477 - R35=disk side number(b0)/drive number(b7)
524 D472 8bef59  STA   @>EF59          n° de piste lecteur A
525 D475 e003    JMP   $D47A  ---
526 D477 8bef58  STA   @>EF58 <-|----- n° de piste lecteur B
527 D47A 8ed493  CALL  $D493 <--      sauvegarde R12-R17
528 D47D 88efbf10 MOVD  %>EFBF,R16
529 D481 8ed0a5  CALL  $D0A5
530 D484 8ed49e  CALL  $D49E         restauration R12-R17
531 D487 8802df01 MOVD  %>02DF,R1
532 D48B 8cd513  BR    $D513  ----->
533
534 -----
535 Erreur 0D=unsupported command
536 -----
537 D48E 720d16  MOV   %>0D,R22
538 D491 e0d9    JMP   $D46C
539
540 -----
541 Sauvegarde R12-R17 en 02C1
542 -----
543 D493 5205    MOV   %>05,B
544 D495 aa000c  LDA   @>000C(B) <-
545 D498 ab02c1  STA   @>02C1(B)  |
546 D49B caf8    DJNZ  B,$D495  ----
547 D49D 0a      RETS
548
549 -----
550 Restauration R12-R17
551 -----
552 D49E 5205    MOV   %>05,B

```



```

553 D4A0 aa02c1 LDA @>02C1(B)
554 D4A3 ab000c STA @>000C(B)
555 D4A6 caf8 DJNZ B,$D4A0
556 D4A8 0a RETS
557
558 -----
559
560 -----
561 D4A9 d80e PUSH R14 R14=vdp write address pointer for trap
562 D4AB d80d PUSH R13
563 D4AD 98010e MOVD R1,R14 R14=vdp write address pointer for trap
564 D4B0 06 DINT
565 D4B1 8af006 LDA @>F006
566 D4B4 2dff CMP %>FF,A test de la machine
567 D4B6 e246 JEQ $D4FE -----> EXL100
568
569 -----EXELTEL
570 D4B8 8ac0c5 LDA @>C0C5
571 D4BB 8bef5c STA @>EF5C
572 D4BE 2201 MOV %>01,A
573 D4C0 8ef028 CALL $F028
574 D4C3 5203 MOV %>03,B
575 D4C5 aac0c5 LDA @>C0C5(B) <-
576 D4C8 9b0e STA *R14 R14=vdp write address pointer for trap
577 D4CA db0e DECD R14
578 D4CC 2201 MOV %>01,A
579 D4CE abc0c5 STA @>C0C5(B)
580 D4D1 caf2 DJNZ B,$D4C5 ----
581 D4D3 8aef5c LDA @>EF5C
582 D4D6 9b0e STA *R14 R14=vdp write address pointer for trap
583
584 -----EXL100 & EXELTEL
585 D4D8 8ed580 CALL $D580 <-----
586 D4DB aabfff LDA @>BFFF(B) <-
587 D4DE 9b0e STA *R14 R14=vdp write address pointer for trap
588 D4E0 aae4b7 LDA @>E4B7(B)
589 D4E3 abbfff STA @>BFFF(B)
590 D4E6 db0e DECD R14 R14=vdp write address pointer for trap
591 D4E8 caf1 DJNZ B,$D4DB ----
592 D4EA 8ed572 CALL $D572
593 D4ED 8ac00c LDA @>C00C
594 D4F0 ab068a STA @>068A(B)
595 D4F3 220b MOV %>0B,A
596 D4F5 8bc00c STA @>C00C
597 D4F8 b2 DEC A
598 D4F9 8bc029 STA @>C029
599 D4FC e057 JMP $D555 ----- --> POP R13&R14, EINT, RETS
600
601 -----EXL100
602 D4FE 8ac0c9 LDA @>C0C9
603 D501 9106 MOVP P6,B
604 D503 5304 AND %>04,B
605 D505 cc RR B
606 D506 23fd AND %>FD,A
607 D508 64 OR B,A
608 D509 7a030e SUB %>03,R14 R14=vdp write address pointer for trap
609 D50C 8ec80a CALL $C80A
610 D50F 9b0e STA *R14 R14=vdp write address pointer for trap
611 D511 e0c5 JMP $D4D8 -----
612
613 -----
614
615 -----
616 D513 d80e PUSH R14
617 D515 d80d PUSH R13
618 D517 98010e MOVD R1,R14
619 D51A 06 DINT
620 D51B 5203 MOV %>03,B
621 D51D 9a0e LDA *R14 <-----

```

```

622 D51F abc0c5 STA @>C0C5(B) |
623 D522 db0e DECD R14 |
624 D524 caf7 DJNZ B,$D51D ---
625 D526 9a0e LDA *R14
626 D528 8bef5c STA @>EF5C
627 D52B 8ed580 CALL $D580
628 D52E 9a0e LDA *R14 <-----
629 D530 abbfff STA @>BFFF(B) |
630 D533 db0e DECD R14 |
631 D535 caf7 DJNZ B,$D52E ---
632 D537 8ed572 CALL $D572
633 D53A aa068a LDA @>068A(B)
634 D53D 8bc00c STA @>C00C
635 D540 2d0b CMP %>0B,A
636 D542 e601 JNE $D545 ---
637 D544 b2 DEC A |
638 D545 8bc029 STA @>C029 <-
639 D548 8af006 LDA @>F006
640 D54B 2dff CMP %>FF,A
641 D54D e20c JEQ $D55B ---
642 D54F 8aef5c LDA @>EF5C |
643 D552 8ef028 CALL $F028
644 D555 d90d POP R13 <-----|-----
645 D557 d90e POP R14
646 D559 05 EINT
647 D55A 0a RETS -----|-----|-----> retour
648 D55B 8aef5c LDA @>EF5C <-
649 D55E 260205 BTJO %>02,A,$D566 -
650 D561 a3fb06 ANDP %>FB,P6 |
651 D564 e005 JMP $D56B -----|
652 D566 a40406 ORP %>04,P6 <---|--
653 D569 23fd AND %>FD,A |
654 D56B 8bc0c9 STA @>C0C9 <---
655 D56E 8240 MOVP A,P64
656 D570 e0e3 JMP $D555 -----|-----
657
658 -----
659
660 -----
661 D572 120e MOV R14,A
662 D574 b3 INC A
663 D575 231f AND %>1F,A
664 D577 5204 MOV %>04,B
665 D579 2a06 SUB %>06,A <----
666 D57B e102 JLT $D57F --- |
667 D57D cafa DJNZ B,$D579 -|--
668 D57F 0a RETS <-----
669
670 -----
671
672 -----
673 D580 320e MOV R14,B
674 D582 8806e50e MOVD %>06E5,R14 1765
675 D586 ce RL B
676 D587 ce RL B
677 D588 ce RL B
678 D589 ce RL B
679 D58A 530f AND %>0F,B
680 D58C 5a0b SUB %>0B,B
681 D58E e105 JLT $D595 ---
682 D590 5c06 MPY %>06,B |
683 D592 48010e ADD R1,R14 |
684 D595 5206 MOV %>06,B <-
685 D597 0a RETS
686
687 -----
688 Positionnement pointeurs vdp
689 -----
690 D598 98150e MOVD R21,R14 R14=vdp write address pointer for trap

```

```

691 D59B 981510   MOVD   R21,R16
692 D59E db10     DECD   R16
693 D5A0 f5       TRAP   10
694 D5A1 d728     SWAP   R40
695 D5A3 98150e   MOVD   R21,R14       R14=vdp write address pointer for trap
696 D5A6 981510   MOVD   R21,R16
697 D5A9 0a       RETS
698
699 ///////////////////////////////////////////////////////////////////
700 ===== Table des commandes =====
701 ///////////////////////////////////////////////////////////////////
702 D5AA d5c2     00= OPEN
703 D5AC d97d     01= CLOSE
704 D5AE de51     02= EOF
705 D5B0 d9d9     03= READ RECORD
706 D5B2 dbe7     04= WRITE RECORD
707 D5B4 e100     05= RESTORE FILE
708 D5B6 de85     06= DELETE FILE
709 D5B8 df0a     07= FORMAT
710 D5BA df95     11= MODIFY DISK PROTECTION
711 D5BC e083     12= READ SECTOR
712 D5BE e0cf     13= WRITE SECTOR
713 D5C0 dfe7     14= MODIFY FILE NAME
714 ///////////////////////////////////////////////////////////////////
715 =====
716 ///////////////////////////////////////////////////////////////////
717
718 -----
719 Commande 00= OPEN
720 -----
721 D5C2 8aef5a   LDA    @>EF5A
722 D5C5 2d07     CMP    %>07,A
723 D5C7 e610     JNE    $D5D9
724 D5C9 2210     MOV    %>10,A
725 D5CB 8bef5a   STA    @>EF5A
726 D5CE b5       CLR    A
727 D5CF 8bef5b   STA    @>EF5B
728 D5D2 52e0     MOV    %>E0,B
729 D5D4 ab071f   STA    @>071F(B)
730 D5D7 cafb     DJNZ   B,$D5D4
731 D5D9 76ff170c BTJO   %>FF,R23,$D5E9
732 D5DD 7a0318   SUB    %>03,R24
733 D5E0 7d1218   CMP    %>12,R24
734 D5E3 e708     JL     $D5ED
735 D5E5 721f16   MOV    %>1F,R22
736 D5E8 0a       RETS
737
738 -----
739
740 -----
741 D5E9 720216   MOV    %>02,R22
742 D5EC 0a       RETS
743
744 -----
745 ???????????????????? appel par DIR
746 -----
747 D5ED 1213     MOV    R19,A         R19=file attribute in PAB
748 D5EF 23c0     AND    %>C0,A
749 D5F1 e604     JNE    $D5F7
750 D5F3 762013f2 BTJO   %>20,R19,$D5E9 --> retour erreur 02=File attribute error
751 D5F7 8ed911   CALL   $D911
752 D5FA e604     JNE    $D600 ---
753 D5FC 725116   MOV    %>51,R22 |
754 D5FF 0a       RETS    -----|----> retour erreur 51=LUN0 in use
755 D600 d529     CLR    R41 <----
756 D602 8ed92c   CALL   $D92C         controle secteur 0
757 D605 e203     JEQ    $D60A ----
758 D607 d116     MOV    B,R22 |
759 D609 0a       RETS    -----|--> retour en erreur

```

```

760 D60A 421d45 MOV R29,R69 <-
761 D60D b5 CLR A
762 D60E 520b MOV %>0B,B
763 D610 ab0045 STA @>0045(B) <-- raz R70-R81
764 D613 cafb DJNZ B,$D610 -----
765 D615 76ff187f BTJO %>FF,R24,$D698 --> si le n° AU n'est pas zero
766 D619 740446 OR %>04,R70
767 D61C 3213 MOV R19,B R19=file attribute in PAB
768 D61E 53c0 AND %>C0,B
769 D620 5d40 CMP %>40,B
770 D622 e204 JEQ $D628 ---
771 D624 720916 MOV %>09,R22 |
772 D627 0a RETS -----|--> retour erreur 09=write protect
773 <-----
774 D628 76201304 BTJO %>20,R19,$D630 - R19=file attribute in PAB
775 D62C 721116 MOV %>11,R22 |
776 D62F 0a RETS -----|--> retour erreur 11=Re\sel access not supported
777 D630 8ed0c3 CALL $D0C3 <-----
778 D633 c0 MOV A,B
779 D634 8ed0c3 CALL $D0C3
780 D637 e60d JNE $D646 -----
781 D639 56ff02 BTJO %>FF,B,$D63E - |
782 D63C 5217 MOV %>17,B |
783 D63E 5d17 CMP %>17,B <----- |
784 D640 e304 JHS $D646 ----->|
785 D642 720c16 MOV %>0C,R22 |
786 D645 0a RETS -----> retour erreur 0c=Buffer size
787 D646 72014a MOV %>01,R74 <-----
788 D649 980150 MOVD R1,R80
789 D64C 1250 MOV R80,A A=17
790 D64E 8ed0d0 CALL $D0D0 ecriture ram cpu ou vdp
791 D651 124f MOV R79,A A=00
792 D653 8ed0d0 CALL $D0D0 ecriture ram cpu ou vdp
793 D656 1248 MOV R72,A A=00
794 D658 8ed0d0 CALL $D0D0 ecriture ram cpu ou vdp
795 D65B 1247 MOV R71,A A=00
796 D65D 8ed0d0 CALL $D0D0 ecriture ram cpu ou vdp
797 D660 720418 MOV %>04,R24 R24=read/write data length
798 D663 8ed964 CALL $D964 Allocation d'un n° de fichier
799 D666 e62f JNE $D697 -----> retour erreur
800 D668 d144 MOV B,R68 offset in file status block
801 D66A 1223 MOV R35,A R35=disk side number(b0)/drive number(b7)
802 D66C 2380 AND %>80,A
803 D66E 2401 OR %>01,A
804 D670 77401306 BTJZ %>40,R19,$D67A -
805 D674 2408 OR %>08,A |
806 D676 77801302 BTJZ %>80,R19,$D67C |-- R19=file attribute in PAB
807 D67A 2410 OR %>10,A <----- |
808 <-----
809 D67C 77201302 BTJZ %>20,R19,$D682 -
810 D680 2420 OR %>20,A |
811 D682 440046 OR R0,R70 <-----
812 D685 720c2d MOV %>0C,R45
813 D688 8800452f MOVD %>0045,R47
814 D68C 9a2f LDA *R47 <-----
815 D68E ab0720 STA @>0720(B) |
816 D691 d32f INC R47 |
817 D693 c3 INC B |
818 D694 da2df5 DJNZ R45,$D68C --
819 D697 0a RETS
820
821 -----
822
823 -----
824 D698 8ed964 CALL $D964
825 D69B e6fa JNE $D697
826 D69D d144 MOV B,R68
827 D69F 8ed0c3 CALL $D0C3
828 D6A2 c0 MOV A,B

```

```

829 D6A3 8ed0c3 CALL $D0C3
830 D6A6 980150 MOVD R1,R80
831 D6A9 8ed0c3 CALL $D0C3
832 D6AC 8ed880 CALL $D880
833 D6AF e203 JEQ $D6B4
834 D6B1 8cd76a BR $D76A
835 D6B4 8edee2 CALL $DEE2
836 D6B7 76ff500e BTJO %>FF,R80,$D6C9
837 D6BB 76ff4f0a BTJO %>FF,R79,$D6C9
838 D6BF 8aed04 LDA @>ED04
839 D6C2 d04f MOV A,R79
840 D6C4 8aed05 LDA @>ED05
841 D6C7 d050 MOV A,R80
842 D6C9 1213 MOV R19,A R19=file attribute in PAB
843 D6CB 23c0 AND %>C0,A
844 D6CD 2d80 CMP %>80,A
845 D6CF e60c JNE $D6DD
846 D6D1 985001 MOVD R80,R1
847 D6D4 8bed04 STA @>ED04
848 D6D7 62 MOV B,A
849 D6D8 8bed05 STA @>ED05
850 D6DB e014 JMP $D6F1
851 D6DD 8aed04 LDA @>ED04
852 D6E0 4d004f CMP R0,R79
853 D6E3 e606 JNE $D6EB
854 D6E5 8aed05 LDA @>ED05
855 D6E8 4d0050 CMP R0,R80
856 D6EB e204 JEQ $D6F1
857 D6ED 720c16 MOV %>0C,R22
858 D6F0 0a RETS
859
860 -----
861
862 -----
863 D6F1 982533 MOVD R37,R51
864 D6F4 8aed01 LDA @>ED01
865 D6F7 c0 MOV A,B
866 D6F8 27010c BTJZ %>01,A,$D707
867 D6FB 1213 MOV R19,A R19=file attribute in PAB
868 D6FD 23c0 AND %>C0,A
869 D6FF 2d40 CMP %>40,A
870 D701 e204 JEQ $D707
871 D703 720916 MOV %>09,R22
872 D706 0a RETS
873
874 -----
875
876 -----
877 D707 1213 MOV R19,A R19=file attribute in PAB
878 D709 572006 BTJZ %>20,B,$D712
879 D70C 262006 BTJO %>20,A,$D715
880 D70F 8cd62c BR $D62C
881 D712 2620fa BTJO %>20,A,$D70F
882 D715 23c0 AND %>C0,A
883 D717 2d00 CMP %>00,A
884 D719 e62b JNE $D746
885 D71B 77201304 BTJZ %>20,R19,$D723 R19=file attribute in PAB
886 D71F 721316 MOV %>13,R22
887 D722 0a RETS
888
889 -----
890
891 -----
892 D723 d546 CLR R70
893 D725 98254e MOVD R37,R78
894 D728 8aed02 LDA @>ED02
895 D72B d01b MOV A,R27
896 D72D 8aed03 LDA @>ED03
897 D730 d01c MOV A,R28

```

```

898 D732 c5          CLR      B
899 D733 aaed00      LDA      @>ED00(B)
900 D736 9b3a        STA      *R58
901 D738 d23a        DEC      R58
902 D73A caf7        DJNZ    B, $D733
903 D73C 8ee250      CALL    $E250
904 D73F 76ff16df   BTJO    %>FF, R22, $D722
905 D743 8cd64c      BR      $D64C
906 D746 2d80        CMP     %>80, A
907 D748 e61c        JNE     $D766
908 D74A 88ed0d28   MOVD   %>ED0D, R40          R40=pointer to the sector buffer
909 D74E 8ed0dd      CALL    $D0DD
910 D751 982840      MOVD   R40, R64          R40=pointer to the sector buffer
911 D754 db40        DECD   R64
912 D756 b5          CLR     A
913 D757 9b40        STA     *R64
914 D759 76ff28f1   BTJO    %>FF, R40, $D74E   R40=pointer to the sector buffer
915 D75D 8bed02      STA     @>ED02
916 D760 8bed03      STA     @>ED03
917 D763 8cd869      BR      $D869
918 D766 c5          CLR     B
919 D767 8cd871      BR      $D871
920 D76A 5d03        CMP     %>03, B
921 D76C e203        JEQ     $D771
922 D76E d116        MOV     B, R22
923 D770 0a          RETS
924
925 -----
926
927 -----
928 D771 1213        MOV     R19, A          R19=file attribute in PAB
929 D773 23c0        AND     %>C0, A
930 D775 2d40        CMP     %>40, A
931 D777 e604        JNE     $D77D
932 D779 720316      MOV     %>03, R22
933 D77C 0a          RETS
934 D77D 88000125    MOVD   %>0001, R37
935 D781 8ed94e      CALL    $D94E
936 D784 e6e8        JNE     $D76E
937 D786 721c2d      MOV     %>1C, R45
938 D789 88ed022f   MOVD   %>ED02, R47
939 D78D 9a2f        LDA     *R47
940 D78F e26b        JEQ     $D7FC
941 D791 78122f      ADD     %>12, R47
942 D794 79002e      ADC     %>00, R46
943 D797 da2df3     DJNZ    R45, $D78D
944 D79A 8aefff      LDA     @>EEFF
945 D79D c0          MOV     A, B
946 D79E 8aeefe      LDA     @>EEFE
947 D7A1 e105        JLT     $D7A8
948 D7A3 980125      MOVD   R1, R37
949 D7A6 e0d9        JMP     $D781
950 D7A8 982531      MOVD   R37, R49
951 D7AB 8ed165      CALL    $D165
952 D7AE e209        JEQ     $D7B9
953 D7B0 8ed100      CALL    $D100
954 D7B3 e204        JEQ     $D7B9
955 D7B5 722016      MOV     %>20, R22
956 D7B8 0a          RETS
957
958 -----
959
960 -----
961 D7B9 98252f      MOVD   R37, R47
962 D7BC 983125      MOVD   R49, R37
963 D7BF 8ec822      CALL    $C822
964 D7C2 e6aa        JNE     $D76E
965 D7C4 982f01      MOVD   R47, R1
966 D7C7 8beefe      STA     @>EEFE

```

```

967 D7CA 62      MOV    B,A
968 D7CB 8beeff  STA    @>EEFF
969 D7CE 8ec825  CALL  $C825
970 D7D1 e69b    JNE    $D76E -----> retour erreur B dans R22
971 D7D3 982f25  MOVD  R47,R37
972 D7D6 8ec837  CALL  $C837
973 D7D9 8ec825  CALL  $C825
974 D7DC e6cd    JNE    $D7AB
975 D7DE b5       CLR   A
976 D7DF 5200    MOV   %>00,B
977 D7E1 abed00  STA   @>ED00(B)
978 D7E4 abee00  STA   @>EE00(B)
979 D7E7 caf8    DJNZ  B,$D7E1
980 D7E9 22d0    MOV   %>D0,A
981 D7EB 8bed00  STA   @>ED00
982 D7EE 220d    MOV   %>0D,A
983 D7F0 8bed01  STA   @>ED01
984 D7F3 2280    MOV   %>80,A
985 D7F5 8beefe  STA   @>EEFE
986 D7F8 88ed022f MOVD  %>ED02,R47
987 D7FC 5210    MOV   %>10,B
988 D7FE 48012f  ADD   R1,R47
989 D801 79002e  ADC   %>00,R46
990 D804 aaeeff  LDA   @>EEFF(B)
991 D807 db2f    DECD  R47
992 D809 9b2f    STA   *R47
993 D80B caf7    DJNZ  B,$D804
994 D80D 78102f  ADD   %>10,R47
995 D810 79002e  ADC   %>00,R46
996 D813 982531  MOVD  R37,R49
997 D816 8ed100  CALL  $D100
998 D819 e69a    JNE    $D7B5 -----> retour erreur 20=medium full
999 D81B 8ec837  CALL  $C837
1000 D81E 8ec825  CALL  $C825
1001 D821 e6ae    JNE    $D7D1 -----> retour erreur B dans R22
1002 D823 982501  MOVD  R37,R1
1003 D826 9b2f    STA   *R47
1004 D828 d32f    INC   R47
1005 D82A 79002e  ADC   %>00,R46
1006 D82D 62       MOV   B,A
1007 D82E 9b2f    STA   *R47
1008 D830 982533  MOVD  R37,R51
1009 D833 983125  MOVD  R49,R37
1010 D836 8ec825  CALL  $C825
1011 D839 e696    JNE    $D7D1 -----> retour erreur B dans R22
1012 D83B 8ec828  CALL  $C828
1013 D83E e691    JNE    $D7D1 -----> retour erreur B dans R22
1014 D840 b5       CLR   A
1015 D841 c5       CLR   B
1016 D842 abed00  STA   @>ED00(B) <-
1017 D845 cafb    DJNZ  B,$D842 -----
1018 D847 22fd    MOV   %>FD,A
1019 D849 8bed00  STA   @>ED00
1020 D84C 1213    MOV   R19,A          R19=file attribute in PAB
1021 D84E 2320    AND   %>20,A
1022 D850 8bed01  STA   @>ED01
1023 D853 76ff5008 BTJO  %>FF,R80,$D85F --
1024 D857 76ff4f04 BTJO  %>FF,R79,$D85F ->|
1025 D85B 88010050 MOVD  %>0100,R80      |
1026 D85F 985001  MOVD  R80,R1  <-----
1027 D862 8bed04  STA   @>ED04
1028 D865 62       MOV   B,A
1029 D866 8bed05  STA   @>ED05
1030 D869 983325  MOVD  R51,R37
1031 D86C 8ec825  CALL  $C825
1032 D86F e6c8    JNE    $D839 -----> retour erreur B dans R22
1033 D871 aaed00  LDA   @>ED00(B) <-
1034 D874 9b3a    STA   *R58          |
1035 D876 d23a    DEC   R58          |

```

```

1036 D878 caf7      DJNZ  B, $D871 ----
1037 D87A 98254e    MOVD  R37, R78
1038 D87D 8cd64c    BR    $D64C ----->
1039
1040 -----
1041
1042 -----
1043 D880 88ef0f28  MOVD  %>EF0F, R40      R40=pointer to the sector buffer
1044 D884 2220      MOV   %>20, A
1045 D886 9b28      STA   *R40           R40=pointer to the sector buffer
1046 D888 d228      DEC   R40           R40=pointer to the sector buffer
1047 D88A e3fa      JHS   $D886
1048 D88C 8ed0c3    CALL $D0C3
1049 D88F e403      JGT   $D894
1050 D891 521f      MOV   %>1F, B
1051 D893 0a        RETS
1052
1053 -----
1054
1055 -----
1056 D894 2d21      CMP   %>21, A
1057 D896 e7f9      JL    $D891
1058 D898 2d2e      CMP   %>2E, A
1059 D89A e60e      JNE   $D8AA
1060 D89C 76f028f1 BTJO  %>F0, R40, $D891  R40=pointer to the sector buffer
1061 D8A0 7d0518    CMP   %>05, R24
1062 D8A3 e3ec      JHS   $D891
1063 D8A5 720c28    MOV   %>0C, R40      R40=pointer to the sector buffer
1064 D8A8 e007      JMP   $D8B1
1065 D8AA 8ed906    CALL $D906
1066 D8AD d328      INC   R40           R40=pointer to the sector buffer
1067 D8AF 9b28      STA   *R40           R40=pointer to the sector buffer
1068 D8B1 da18d8    DJNZ  R24, $D88C
1069 D8B4 88000125 MOVD  %>0001, R37
1070 D8B8 8ed94e    CALL $D94E
1071 D8BB e6d6      JNE   $D893
1072 D8BD 721c3c    MOV   %>1C, R60
1073 D8C0 88ed0242 MOVD  %>ED02, R66
1074 D8C4 98423e    MOVD  R66, R62
1075 D8C7 5210      MOV   %>10, B
1076 D8C9 88ef0040 MOVD  %>EF00, R64
1077 D8CD 9a3e      LDA   *R62
1078 D8CF 9d40      CMPA  *R64
1079 D8D1 e619      JNE   $D8EC
1080 D8D3 d33e      INC   R62
1081 D8D5 79003d    ADC   %>00, R61
1082 D8D8 d340      INC   R64
1083 D8DA caf1      DJNZ  B, $D8CD
1084 D8DC 982540    MOVD  R37, R64
1085 D8DF 9a3e      LDA   *R62
1086 D8E1 d024      MOV   A, R36
1087 D8E3 d33e      INC   R62
1088 D8E5 9a3e      LDA   *R62
1089 D8E7 d025      MOV   A, R37
1090 D8E9 8cc822    BR    $C822
1091 D8EC 781242    ADD   %>12, R66
1092 D8EF 790041    ADC   %>00, R65
1093 D8F2 da3ccf    DJNZ  R60, $D8C4
1094 D8F5 8aeefe    LDA   @>EEFE
1095 D8F8 e109      JLT   $D903
1096 D8FA d024      MOV   A, R36
1097 D8FC 8aeeff    LDA   @>EEFF
1098 D8FF d025      MOV   A, R37
1099 D901 e0b5      JMP   $D8B8
1100 D903 5203      MOV   %>03, B
1101 D905 0a        RETS
1102
1103 -----
1104

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1105 -----
1106 D906 2d61      CMP    %>61,A
1107 D908 e706      JL     $D910
1108 D90A 2d7b      CMP    %>7B,A
1109 D90C e302      JHS    $D910
1110 D90E 2a20      SUB    %>20,A
1111 D910 0a        RETS
1112 -----
1113 -----
1114 -----
1115 -----
1116 D911 880f003a  MOVD   %>0F00,R58
1117 D915 5270      MOV    %>70,B
1118 D917 aa0721    LDA    @>0721(B) <-----
1119 D91A 270107    BTJZ   %>01,A,$D924 - |
1120 D91D 121d      MOV    R29,A         |
1121 D91F ad0720    CMPA   @>0720(B)     |
1122 D922 e207      JEQ    $D92B ----- |
1123 D924 7a0139    SUB    %>01,R57 <-|-- |
1124 D927 5a10      SUB    %>10,B        |
1125 D929 e5ec      JGE    $D917 -----|-----
1126 D92B 0a        RETS    <-----
1127 -----
1128 -----
1129 -----
1130 -----
1131 D92C 46514310  BTJO   R81,R67,$D940 ----
1132 D930 8ec82b    CALL   $C82B <----- |   controle signature secteur zero
1133 D933 e609      JNE    $D93E --- |
1134 D935 445143    OR     R81,R67 |   R81=01
1135 D938 1252      MOV    R82,A |   R82=02
1136 D93A b4        INV    A |   A=FD
1137 D93B 430043    AND    R0,R67 |   R67=01
1138 D93E c1        TSTB   <----- |   B=00
1139 D93F 0a        RETS   -----|--> retour
1140 <-----
1141 D940 475243ec  BTJZ   R82,R67,$D930 -
1142 D944 8ec828    CALL   $C828
1143 D947 e6f5      JNE    $D93E -----> TSTB, RETS
1144 D949 455243    XOR    R82,R67
1145 D94C c5        CLR    B
1146 D94D 0a        RETS
1147 -----
1148 -----
1149 -----
1150 -----
1151 D94E 8ec822    CALL   $C822
1152 D951 e610      JNE    $D963 -----
1153 D953 8aed00    LDA    @>ED00 |
1154 D956 2dd0      CMP    %>D0,A |
1155 D958 e607      JNE    $D961 --- |
1156 D95A 8aed01    LDA    @>ED01 |
1157 D95D 2d0d      CMP    %>0D,A |
1158 D95F e202      JEQ    $D963 ---|--> |
1159 D961 5268      MOV    %>68,B <- |
1160 D963 0a        RETS    <-----
1161 -----
1162 -----
1163 Recherche d'un n° de fichier
1164 -----
1165 D964 880f003a  MOVD   %>0F00,R58
1166 D968 5270      MOV    %>70,B
1167 D96A aa0721    LDA    @>0721(B) <---
1168 D96D 27010b    BTJZ   %>01,A,$D97B -|--
1169 D970 7a0139    SUB    %>01,R57 |
1170 D973 5a10      SUB    %>10,B |
1171 D975 e5f3      JGE    $D96A -----
1172 D977 725016    MOV    %>50,R22 |
1173 D97A 0a        RETS   -----> retour erreur 50=Too many files open

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```

1174 D97B b5      CLR      A <-----
1175 D97C 0a      RETS
1176
1177 -----
1178 Commande 01= CLOSE
1179 -----
1180 D97D 8ed9ad   CALL    $D9AD
1181 D980 47524309 BTJZ    R82,R67,$D98D
1182 D984 8ec828   CALL    $C828
1183 D987 e204     JEQ     $D98D
1184 D989 d116     MOV     B,R22
1185 D98B e016     JMP     $D9A3
1186 D98D 77024612 BTJZ    %>02,R70,$D9A3
1187 D991 984e25   MOVD   R78,R37
1188 D994 c5       CLR     B
1189 D995 9a3a     LDA     *R58
1190 D997 abed00   STA     @>ED00(B)
1191 D99A d23a     DEC     R58
1192 D99C caf7     DJNZ   B,$D995
1193 D99E 8ec825   CALL    $C825
1194 D9A1 e6e6     JNE     $D989
1195 D9A3 73fe29   AND    %>FE,R41
1196 D9A6 3244     MOV     R68,B
1197 D9A8 b5       CLR     A
1198 D9A9 ab0721   STA     @>0721(B)
1199 D9AC 0a      RETS
1200
1201 -----
1202
1203 -----
1204 D9AD 8ed911   CALL    $D911
1205 D9B0 e206     JEQ     $D9B8 ---
1206 D9B2 b9       POP     A <----- |--
1207 D9B3 b9       POP     A           |
1208 D9B4 720416   MOV     %>04,R22   |
1209 D9B7 0a      RETS          ----- |--> retour erreur 04=file not opened
1210 D9B8 d144     MOV     B,R68 <--  |
1211 D9BA aa0721   LDA     @>0721(B)  |
1212 D9BD 1523     XOR     R35,A      |      R35=disk side number(b0)/drive number(b7)
1213 D9BF e1f1     JLT     $D9B2 -----
1214 D9C1 720c2d   MOV     %>0C,R45
1215 D9C4 8800452f MOVD   %>0045,R47
1216 D9C8 aa0720   LDA     @>0720(B) <-
1217 D9CB 9b2f     STA     *R47      |
1218 D9CD d32f     INC     R47      |
1219 D9CF c3       INC     B        |
1220 D9D0 da2df5   DJNZ   R45,$D9C8 --
1221 D9D3 0a      RETS
1222
1223 -----
1224
1225 -----
1226 D9D4 72ff55   MOV     %>FF,R85
1227 D9D7 e024     JMP     $D9FD
1228
1229 -----
1230 Commande 03= READ RECORD
1231 -----
1232 D9D9 d555     CLR     R85
1233 D9DB 8ed9ad   CALL    $D9AD
1234 D9DE 76084604 BTJO    %>08,R70,$D9E6 -
1235 D9E2 720f16   MOV     %>0F,R22   |
1236 D9E5 0a      RETS          ----- |--> retour erreur 0F=not opened for read
1237 <-----
1238 D9E6 77044603 BTJZ    %>04,R70,$D9ED -
1239 D9EA 8cdaa6   BR     $DAA6 ----- |-->
1240 D9ED 72ff33   MOV     %>FF,R51 <-----
1241 D9F0 77204609 BTJZ    %>20,R70,$D9FD -
1242 D9F4 8ee250   CALL    $E250      |

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1243 D9F7 d555 CLR R85 |
1244 D9F9 76ff16e8 BTJO %>FF,R22,$D9E5 -|---> retour erreur
1245 D9FD 72033a MOV %>03,R58 <-----
1246 DA00 9a3a LDA *R58
1247 DA02 c0 MOV A,B
1248 DA03 d23a DEC R58
1249 DA05 9a3a LDA *R58
1250 DA07 1d47 CMP R71,A
1251 DA09 e602 JNE $DA0D
1252 DA0B 3d48 CMP R72,B
1253 DA0D e604 JNE $DA13
1254 DA0F 720716 MOV %>07,R22
1255 DA12 0a RETS
1256
1257 -----
1258
1259 -----
1260 DA13 720a3a MOV %>0A,R58
1261 DA16 78033a ADD %>03,R58
1262 DA19 76ff4a14 BTJO %>FF,R74,$DA31
1263 DA1D 7d0049 CMP %>00,R73
1264 DA20 e60f JNE $DA31
1265 DA22 d533 CLR R51
1266 DA24 983a3c MOVD R58,R60
1267 DA27 9a3c LDA *R60
1268 DA29 d049 MOV A,R73
1269 DA2B d33c INC R60
1270 DA2D 9a3c LDA *R60
1271 DA2F d04a MOV A,R74
1272 DA31 983a2d MOVD R58,R45
1273 DA34 9a2d LDA *R45
1274 DA36 d030 MOV A,R48
1275 DA38 d32d INC R45
1276 DA3A 9a2d LDA *R45
1277 DA3C d031 MOV A,R49
1278 DA3E 4d3049 CMP R48,R73
1279 DA41 e603 JNE $DA46
1280 DA43 4d004a CMP R0,R74
1281 DA46 e7ce JL $DA16
1282 DA48 d32d INC R45
1283 DA4A 9a2d LDA *R45
1284 DA4C 480031 ADD R0,R49
1285 DA4F 790030 ADC %>00,R48
1286 DA52 db31 DECD R49
1287 DA54 4d4930 CMP R73,R48
1288 DA57 e603 JNE $DA5C
1289 DA59 4d4a31 CMP R74,R49
1290 DA5C e7b8 JL $DA16
1291 DA5E 984a25 MOVD R74,R37
1292 DA61 8ec822 CALL $C822
1293 DA64 e203 JEQ $DA69
1294 DA66 d116 MOV B,R22
1295 DA68 0a RETS
1296
1297 -----
1298
1299 -----
1300 DA69 8edb2d CALL $DB2D
1301 DA6C d017 MOV A,R23
1302 DA6E 8edb2d CALL $DB2D
1303 DA71 d018 MOV A,R24
1304 DA73 981831 MOVD R24,R49
1305 DA76 76ff550e BTJO %>FF,R85,$DA88
1306 DA7A 4d1719 CMP R23,R25
1307 DA7D e603 JNE $DA82
1308 DA7F 4d181a CMP R24,R26
1309 DA82 e304 JHS $DA88
1310 DA84 720c16 MOV %>0C,R22
1311 DA87 0a RETS

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```

1312
1313 -----
1314
1315 -----
1316 DA88 db31      DECD   R49  <-----
1317 DA8A e70c      JL     $DA98 -----|--
1318 DA8C 8edb2d    CALL  $DB2D          |
1319 DA8F 76ff55f5 BTJO  %>FF,R85,$DA88 ->|
1320 DA93 8ed0d0    CALL  $D0D0          |   ecriture ram cpu ou vdp
1321 DA96 e0f0      JMP   $DA88 -----|
1322 DA98 d348      INC   R72 <-----
1323 DA9A 790047    ADC   %>00,R71
1324 DA9D 3244      MOV   R68,B
1325 DA9F 8cd685    BR    $D685 ----->
1326 DAA2 720d16    MOV   %>0D,R22
1327 DAA5 0a        RETS
1328
1329 -----
1330
1331 -----
1332 DAA6 76ff1909 BTJO  %>FF,R25,$DAB3 -
1333 DAAA 7d171a    CMP   %>17,R26      |
1334 DAAD e304      JHS  $DAB3 ----->|
1335 DAAF 720c16    MOV   %>0C,R22      |
1336 DAB2 0a        RETS  -----|--> retour erreur 0C=buffer size
1337 DAB3 8edb9b    CALL  $DB9B <-----
1338 DAB6 76ff16f8 BTJO  %>FF,R22,$DAB2 -----> retour erreur
1339 DABA 5210      MOV   %>10,B
1340 DABC 9a42      LDA   *R66
1341 DABE 8ed0d0    CALL  $D0D0          ecriture ram cpu ou vdp
1342 DAC1 d342      INC   R66
1343 DAC3 790041    ADC   %>00,R65
1344 DAC6 caf4      DJNZ  B,$DABC
1345 DAC8 9a42      LDA   *R66
1346 DACA d020      MOV   A,R32
1347 DACC d342      INC   R66
1348 DACE 790041    ADC   %>00,R65
1349 DAD1 9a42      LDA   *R66
1350 DAD3 d021      MOV   A,R33        ????
1351 DAD5 df21      CLR   R33          raz n° secteur
1352 DAD7 df20      CLR   R32          raz n° secteur
1353 DAD9 983a28    MOVD  R58,R40      R40=pointer to the sector buffer
1354 DADC 8ec819    CALL  $C819        lecture secteur
1355 DADF e685      JNE  $DA66
1356 DAE1 d328      INC   R40          R40=pointer to the sector buffer
1357 DAE3 9a28      LDA   *R40         R40=pointer to the sector buffer
1358 DAE5 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1359 DAE8 720f28    MOV   %>0F,R40     R40=pointer to the sector buffer
1360 DAEB 8800012f MOVD  %>0001,R47
1361 DAEF 9a28      LDA   *R40         R40=pointer to the sector buffer
1362 DAF1 48002f    ADD   R0,R47
1363 DAF4 79002e    ADC   %>00,R46
1364 DAF7 780328    ADD   %>03,R40     R40=pointer to the sector buffer
1365 DAFA e7f3      JL   $DAEF
1366 DAFC 122e      MOV   R46,A
1367 DAFE 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1368 DB01 122f      MOV   R47,A
1369 DB03 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1370 DB06 720228    MOV   %>02,R40     R40=pointer to the sector buffer
1371 DB09 9a28      LDA   *R40         R40=pointer to the sector buffer
1372 DB0B 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1373 DB0E d328      INC   R40          R40=pointer to the sector buffer
1374 DB10 9a28      LDA   *R40         R40=pointer to the sector buffer
1375 DB12 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1376 DB15 d328      INC   R40          R40=pointer to the sector buffer
1377 DB17 9a28      LDA   *R40         R40=pointer to the sector buffer
1378 DB19 8ed0d0    CALL  $D0D0        ecriture ram cpu ou vdp
1379 DB1C d328      INC   R40          R40=pointer to the sector buffer
1380 DB1E 9a28      LDA   *R40         R40=pointer to the sector buffer

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1381 DB20 8ed0d0 CALL $D0D0 ecriture ram cpu ou vdp
1382 DB23 981c48 MOVD R28,R72
1383 DB26 88002318 MOVD %>0023,R24
1384 DB2A 8cda98 BR $DA98
1385 DB2D 76ff4c4a BTJO %>FF,R76,$DB7B
1386 DB31 76ff4b46 BTJO %>FF,R75,$DB7B
1387 DB35 76ff3302 BTJO %>FF,R51,$DB3B
1388 DB39 e040 JMP $DB7B
1389 DB3B 983a3e MOVD R58,R62
1390 DB3E 9a3e LDA *R62
1391 DB40 d024 MOV A,R36
1392 DB42 d33e INC R62
1393 DB44 9a3e LDA *R62
1394 DB46 d025 MOV A,R37
1395 DB48 d33e INC R62
1396 DB4A 9a3e LDA *R62
1397 DB4C 480025 ADD R0,R37
1398 DB4F 790024 ADC %>00,R36
1399 DB52 db25 DECD R37
1400 DB54 4d2449 CMP R36,R73
1401 DB57 e603 JNE $DB5C
1402 DB59 4d254a CMP R37,R74
1403 DB5C e736 JL $DB94
1404 DB5E 78033a ADD %>03,R58
1405 DB61 983a3e MOVD R58,R62
1406 DB64 9a3e LDA *R62
1407 DB66 d049 MOV A,R73
1408 DB68 d33e INC R62
1409 DB6A 9a3e LDA *R62
1410 DB6C d04a MOV A,R74
1411 DB6E 984a25 MOVD R74,R37
1412 DB71 8ec822 CALL $C822
1413 DB74 e205 JEQ $DB7B
1414 DB76 d116 MOV B,R22
1415 DB78 b9 POP A
1416 DB79 b9 POP A
1417 DB7A 0a RETS
1418
1419 -----
1420
1421 -----
1422 DB7B 72ff33 MOV %>FF,R51
1423 DB7E 984c3e MOVD R76,R62
1424 DB81 78ed3d ADD %>ED,R61
1425 DB84 9a3e LDA *R62
1426 DB86 d34c INC R76
1427 DB88 79004b ADC %>00,R75
1428 DB8B 77024b04 BTJZ %>02,R75,$DB93
1429 DB8F 8800004c MOVD %>0000,R76
1430 DB93 0a RETS
1431
1432 -----
1433
1434 -----
1435 DB94 d34a INC R74
1436 DB96 790049 ADC %>00,R73
1437 DB99 e0d3 JMP $DB6E
1438
1439 -----
1440
1441 -----
1442 DB9B 88000125 MOVD %>0001,R37
1443 DB9F 8800002d MOVD %>0000,R45
1444 DBA3 8ed94e CALL $D94E
1445 DBA6 e203 JEQ $DBAB -----
1446 DBA8 d116 MOV B,R22 |
1447 DBAA 0a RETS -----|--> retour erreur
1448 DBAB 721c3c MOV %>1C,R60 <-
1449 DBAE 88ed0242 MOVD %>ED02,R66

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1450 DBB2 9a42      LDA    *R66
1451 DBB4 e61b      JNE    $DBD1
1452 DBB6 781242    ADD    %>12,R66
1453 DBB9 790041    ADC    %>00,R65
1454 DBBC da3cf3    DJNZ   R60,$DBB2
1455 DBBF 8aeefe    LDA    @>EEFE
1456 DBC2 e504      JGE    $DBC8
1457 DBC4 720716    MOV    %>07,R22
1458 DBC7 0a        RETS
1459
1460 -----
1461
1462 -----
1463 DBC8 d024      MOV    A,R36
1464 DBCA 8aeeff    LDA    @>EEFF
1465 DBCD d025      MOV    A,R37
1466 DBCF e0d2      JMP    $DBA3
1467 DBD1 4d1c2d    CMP    R28,R45
1468 DBD4 e605      JNE    $DBDB
1469 DBD6 4d1b2c    CMP    R27,R44
1470 DBD9 e2cf      JEQ    $DBAA
1471 DBDB d32d      INC    R45
1472 DBDD 79002c    ADC    %>00,R44
1473 DBE0 e0d4      JMP    $DBB6
1474 DBE2 72ff55    MOV    %>FF,R85
1475 DBE5 e031      JMP    $DC18
1476
1477 -----
1478 Commande 04= WRITE RECORD
1479 -----
1480 DBE7 d555      CLR    R85
1481 DBE9 8ed9ad    CALL  $D9AD
1482 DBEC 76104604 BTJO   %>10,R70,$DBF4
1483 DBF0 720e16    MOV    %>0E,R22
1484 DBF3 0a        RETS
1485 DBF4 4d174f    CMP    R23,R79
1486 DBF7 e603      JNE    $DBFC
1487 DBF9 4d1850    CMP    R24,R80
1488 DBFC e304      JHS    $DC02
1489 DBFE 720816    MOV    %>08,R22
1490 DC01 0a        RETS
1491 DC02 72ff33    MOV    %>FF,R51
1492 DC05 7720460f BTJZ   %>20,R70,$DC18
1493 DC09 77084602 BTJZ   %>08,R70,$DC0F
1494 DC0D d533      CLR    R51
1495 DC0F 8ee250    CALL  $E250
1496 DC12 d555      CLR    R85
1497 DC14 76ff16e9 BTJO   %>FF,R22,$DC01
1498 DC18 740246    OR    %>02,R70
1499 DC1B 72033a    MOV    %>03,R58
1500 DC1E 9a3a      LDA    *R58
1501 DC20 c0        MOV    A,B
1502 DC21 d23a      DEC    R58
1503 DC23 9a3a      LDA    *R58
1504 DC25 980133    MOVD   R1,R51
1505 DC28 720a3a    MOV    %>0A,R58
1506 DC2B 78033a    ADD    %>03,R58
1507 DC2E 76ff3305 BTJO   %>FF,R51,$DC37
1508 DC32 7d0032    CMP    %>00,R50
1509 DC35 e258      JEQ    $DC8F
1510 DC37 76ff4a12 BTJO   %>FF,R74,$DC4D
1511 DC3B 7d0049    CMP    %>00,R73
1512 DC3E e60d      JNE    $DC4D
1513 DC40 983a3c    MOVD   R58,R60
1514 DC43 9a3c      LDA    *R60
1515 DC45 d049      MOV    A,R73
1516 DC47 d33c      INC    R60
1517 DC49 9a3c      LDA    *R60
1518 DC4B d04a      MOV    A,R74

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1519 DC4D 983a2d   MOVD  R58,R45
1520 DC50 9a2d     LDA   *R45
1521 DC52 d030     MOV   A,R48
1522 DC54 d32d     INC   R45
1523 DC56 9a2d     LDA   *R45
1524 DC58 d031     MOV   A,R49
1525 DC5A 4d3049   CMP   R48,R73
1526 DC5D e603     JNE   $DC62
1527 DC5F 4d004a   CMP   R0,R74
1528 DC62 e7c7     JL    $DC2B
1529 DC64 d32d     INC   R45
1530 DC66 9a2d     LDA   *R45
1531 DC68 480031   ADD   R0,R49
1532 DC6B 790030   ADC   %>00,R48
1533 DC6E db31     DECD  R49
1534 DC70 4d4930   CMP   R73,R48
1535 DC73 e603     JNE   $DC78
1536 DC75 4d4a31   CMP   R74,R49
1537 DC78 e7b1     JL    $DC2B
1538 DC7A 76ff5504 BTJO  %>FF,R85,$DC82
1539 DC7E 76204662 BTJO  %>20,R70,$DCE4
1540 DC82 98313e   MOVD  R49,R62
1541 DC85 4a4a3e   SUB   R74,R62
1542 DC88 4b493d   SBB   R73,R61
1543 DC8B 1a3e     SUB   R62,A
1544 DC8D 9b2d     STA   *R45
1545 DC8F 4d4732   CMP   R71,R50
1546 DC92 e603     JNE   $DC97
1547 DC94 4d4833   CMP   R72,R51
1548 DC97 e24b     JEQ   $DCE4
1549 DC99 984a25   MOVD  R74,R37
1550 DC9C 76ff4b07 BTJO  %>FF,R75,$DCA7
1551 DCA0 76ff4c03 BTJO  %>FF,R76,$DCA7
1552 DCA4 8ec83a   CALL  $C83A
1553 DCA7 4d2531   CMP   R37,R49
1554 DCAA e605     JNE   $DCB1
1555 DCAC 4d2430   CMP   R36,R48
1556 DCAF e207     JEQ   $DCB8
1557 DCB1 d325     INC   R37
1558 DCB3 790024   ADC   %>00,R36
1559 DCB6 e0ec     JMP   $DCA4
1560 DCB8 982d28   MOVD  R45,R40           R40=pointer to the sector buffer
1561 DCBB d328     INC   R40           R40=pointer to the sector buffer
1562 DCBD e30f     JHS   $DCCE
1563 DCBF 8ed0dd   CALL  $D0DD
1564 DCC2 982840   MOVD  R40,R64           R40=pointer to the sector buffer
1565 DCC5 db40     DECD  R64
1566 DCC7 b5       CLR   A
1567 DCC8 9b40     STA   *R64
1568 DCCA 76ff28f1 BTJO  %>FF,R40,$DCBF     R40=pointer to the sector buffer
1569 DCCE 72022d   MOV   %>02,R45
1570 DCD1 984801   MOVD  R72,R1
1571 DCD4 e607     JNE   $DCDD
1572 DCD6 c1       TSTB
1573 DCD7 e604     JNE   $DCDD
1574 DCD9 8800004a MOVD  %>0000,R74
1575 DCDD 9b2d     STA   *R45
1576 DCDF d32d     INC   R45
1577 DCE1 62       MOV   B,A
1578 DCE2 9b2d     STA   *R45
1579 DCE4 984a25   MOVD  R74,R37
1580 DCE7 e605     JNE   $DCEE
1581 DCE9 7d004a   CMP   %>00,R74
1582 DCEC e205     JEQ   $DCF3
1583 DCEE 8ec822   CALL  $C822
1584 DCF1 e629     JNE   $DD1C
1585 DCF3 d533     CLR   R51
1586 DCF5 1217     MOV   R23,A
1587 DCF7 8eddbd   CALL  $DDBD

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1588 DCFA 1218      MOV    R24,A
1589 DCFC 8eddbd    CALL  $DDBD
1590 DCFF 981831    MOVD  R24,R49
1591 DD02 db31      DECD  R49
1592 DD04 e70e      JL    $DD14
1593 DD06 222e      MOV   %>2E,A
1594 DD08 76ff5503 BTJO  %>FF,R85,$DD0F
1595 DD0C 8ed0c3    CALL  $D0C3
1596 DD0F 8eddbd    CALL  $DDBD
1597 DD12 e0ee      JMP   $DD02
1598 DD14 984a25    MOVD  R74,R37
1599 DD17 8ec825    CALL  $C825
1600 DD1A e203      JEQ   $DD1F
1601 DD1C d116      MOV   B,R22
1602 DD1E 0a       RETS
1603
1604 -----
1605
1606 -----
1607 DD1F 76ff5504  BTJO  %>FF,R85,$DD27
1608 DD23 76204618 BTJO  %>20,R70,$DD3F
1609 DD27 72023a    MOV   %>02,R58
1610 DD2A d348      INC   R72
1611 DD2C 790047    ADC   %>00,R71
1612 DD2F e704      JL    $DD35
1613 DD31 726916    MOV   %>69,R22
1614 DD34 0a       RETS
1615
1616 -----
1617
1618 -----
1619 DD35 984801    MOVD  R72,R1
1620 DD38 9b3a      STA   *R58
1621 DD3A d33a      INC   R58
1622 DD3C 62        MOV   B,A
1623 DD3D 9b3a      STA   *R58
1624 DD3F 88000018 MOVD  %>0000,R24
1625 DD43 3244      MOV   R68,B
1626 DD45 8cd685    BR    $D685
1627 DD48 76ff4c4a BTJO  %>FF,R76,$DD96
1628 DD4C 76ff4b46 BTJO  %>FF,R75,$DD96
1629 DD50 76ff3302 BTJO  %>FF,R51,$DD56
1630 DD54 e040      JMP   $DD96
1631 DD56 983a3e    MOVD  R58,R62
1632 DD59 9a3e      LDA   *R62
1633 DD5B d024      MOV   A,R36
1634 DD5D d33e      INC   R62
1635 DD5F 9a3e      LDA   *R62
1636 DD61 d025      MOV   A,R37
1637 DD63 d33e      INC   R62
1638 DD65 9a3e      LDA   *R62
1639 DD67 480025    ADD   R0,R37
1640 DD6A 790024    ADC   %>00,R36
1641 DD6D db25      DECD  R37
1642 DD6F 4d2449    CMP   R36,R73
1643 DD72 e603      JNE   $DD77
1644 DD74 4d254a    CMP   R37,R74
1645 DD77 e73d      JL    $DDB6
1646 DD79 78033a    ADD   %>03,R58
1647 DD7C 983a3e    MOVD  R58,R62
1648 DD7F 9a3e      LDA   *R62
1649 DD81 d049      MOV   A,R73
1650 DD83 d33e      INC   R62
1651 DD85 9a3e      LDA   *R62
1652 DD87 d04a      MOV   A,R74
1653 DD89 984a25    MOVD  R74,R37
1654 DD8C 8ec822    CALL  $C822
1655 DD8F e205      JEQ   $DD96
1656 DD91 d116      MOV   B,R22

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1657 DD93 b9      POP    A
1658 DD94 b9      POP    A
1659 DD95 0a      RETS
1660
1661 -----
1662
1663 -----
1664 DD96 72ff33   MOV    %>FF,R51
1665 DD99 984c3e   MOVD   R76,R62
1666 DD9C 78ed3d   ADD    %>ED,R61
1667 DD9F 1240     MOV    R64,A
1668 DDA1 9b3e     STA    *R62
1669 DDA3 d34c     INC    R76
1670 DDA5 79004b   ADC    %>00,R75
1671 DDA8 77024b09 BTJZ   %>02,R75,$DDB5
1672 DDAC 8800004c MOVD   %>0000,R76
1673 DDB0 8ec825   CALL   $C825
1674 DDB3 e6dc     JNE    $DD91
1675 DDB5 0a      RETS
1676
1677 -----
1678
1679 -----
1680 DDB6 d34a     INC    R74
1681 DDB8 790049   ADC    %>00,R73
1682 DDBB e0cc     JMP    $DD89
1683 DDBD d040     MOV    A,R64
1684 DDBF 76ff5504 BTJO   %>FF,R85,$DDC7
1685 DDC3 76204681 BTJO   %>20,R70,$DD48
1686 DDC7 76ff4c62 BTJO   %>FF,R76,$DE2D
1687 DDCB 76ff4b5e BTJO   %>FF,R75,$DE2D
1688 DDCF 983a3e   MOVD   R58,R62
1689 DDD2 76ff4a11 BTJO   %>FF,R74,$DDE7
1690 DDD6 76ff490d BTJO   %>FF,R73,$DDE7
1691 DDDA 720c3e   MOV    %>0C,R62
1692 DDDD 984e25   MOVD   R78,R37
1693 DDE0 8ed165   CALL   $D165
1694 DDE3 e221     JEQ    $DE06
1695 DDE5 e015     JMP    $DDFC
1696 DDE7 78023e   ADD    %>02,R62
1697 DDEA 9a3e     LDA    *R62
1698 DDEC 27ff2b   BTJZ   %>FF,A,$DE1A
1699 DDEF 78033a   ADD    %>03,R58
1700 DDF2 e708     JL     $DDFC
1701 DDF4 726916   MOV    %>69,R22
1702 DDF7 b9      POP    A
1703 DDF8 b9      POP    A
1704 DDF9 8cdd3f   BR     $DD3F
1705 DDFC 8ed100   CALL   $D100
1706 DDFE e205     JEQ    $DE06
1707 DE01 722016   MOV    %>20,R22
1708 DE04 e0f1     JMP    $DDF7
1709 DE06 d33e     INC    R62
1710 DE08 982501   MOVD   R37,R1
1711 DE0B 9b3e     STA    *R62
1712 DE0D 62      MOV    B,A
1713 DE0E d33e     INC    R62
1714 DE10 9b3e     STA    *R62
1715 DE12 2201     MOV    %>01,A
1716 DE14 d33e     INC    R62
1717 DE16 9b3e     STA    *R62
1718 DE18 e00d     JMP    $DE27
1719 DE1A 984a25   MOVD   R74,R37
1720 DE1D 8ed165   CALL   $D165
1721 DE20 e6cd     JNE    $DDEF
1722 DE22 9a3e     LDA    *R62
1723 DE24 b3      INC    A
1724 DE25 9b3e     STA    *R62
1725 DE27 8ec837   CALL   $C837

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1726 DE2A 98254a   MOVD  R37,R74
1727 DE2D 984c3e   MOVD  R76,R62
1728 DE30 78ed3d   ADD   %>ED,R61
1729 DE33 1240      MOV   R64,A
1730 DE35 9b3e     STA   *R62
1731 DE37 d34c     INC   R76
1732 DE39 79004b   ADC   %>00,R75
1733 DE3C 77024b10 BTJZ  %>02,R75,$DE50
1734 DE40 984a25   MOVD  R74,R37
1735 DE43 8ec825   CALL  $C825
1736 DE46 e204     JEQ   $DE4C
1737 DE48 d116     MOV   B,R22
1738 DE4A e0ab     JMP   $DDF7
1739 DE4C 8800004c MOVD  %>0000,R76
1740 DE50 0a      RETS
1741
1742 -----
1743 Commande 02= EOF
1744 -----
1745 DE51 8ed9ad   CALL  $D9AD
1746 DE54 76044612 BTJO  %>04,R70,$DE6A
1747 DE58 72033a   MOV   %>03,R58
1748 DE5B 9a3a     LDA   *R58
1749 DE5D c0       MOV   A,B
1750 DE5E d23a     DEC   R58
1751 DE60 9a3a     LDA   *R58
1752 DE62 3a48     SUB   R72,B
1753 DE64 1b47     SBB   R71,A
1754 DE66 980110   MOVD  R1,R16
1755 DE69 0a      RETS
1756
1757 -----
1758
1759 -----
1760 DE6A d81c     PUSH  R28
1761 DE6C d81b     PUSH  R27
1762 DE6E 88ffff1c MOVD  %>FFFF,R28
1763 DE72 8edb9b   CALL  $DB9B
1764 DE75 d91b     POP   R27
1765 DE77 d91c     POP   R28
1766 DE79 7d0716   CMP   %>07,R22
1767 DE7C e6eb     JNE   $DE69
1768 DE7E d516     CLR   R22
1769 DE80 982d01   MOVD  R45,R1
1770 DE83 e0dd     JMP   $DE62
1771
1772 -----
1773 Commande 06= DELETE FILE
1774 -----
1775 DE85 76ff170e BTJO  %>FF,R23,$DE97
1776 DE89 7a0318   SUB   %>03,R24
1777 DE8C e404     JGT   $DE92
1778 DE8E 720116   MOV   %>01,R22
1779 DE91 0a      RETS
1780
1781 -----
1782
1783 -----
1784 DE92 7d1218   CMP   %>12,R24
1785 DE95 e704     JL    $DE9B
1786 DE97 720816   MOV   %>08,R22
1787 DE9A 0a      RETS
1788
1789 -----
1790
1791 -----
1792 DE9B 8ed0c3   CALL  $D0C3
1793 DE9E 8ed0c3   CALL  $D0C3
1794 DEA1 8ed0c3   CALL  $D0C3

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```

1795 DEAC 8ed880 CALL $D880
1796 DEAF e203 JEQ $DEAC
1797 DEAA d116 MOV B,R22
1798 DEAB 0a RETS
1799
1800 -----
1801
1802 -----
1803 DEAC 98402d MOVD R64,R45
1804 DEAF 98422f MOVD R66,R47
1805 DEB2 8edee2 CALL $DEE2
1806 DEB5 8aed01 LDA @>ED01
1807 DEB8 270204 BTJZ %>02,A,$DEBF
1808 DEBB 721c16 MOV %>1C,R22
1809 DEBE 0a RETS
1810
1811 -----
1812
1813 -----
1814 DEBF 8ec83a CALL $C83A
1815 DEC2 88ed0d28 MOVD %>ED0D,R40 R40=pointer to the sector buffer
1816 DEC6 8ed0dd CALL $D0DD
1817 DEC9 76ff28f9 BTJO %>FF,R40,$DEC6 R40=pointer to the sector buffer
1818 DECD 982d25 MOVD R45,R37
1819 DED0 8ec822 CALL $C822
1820 DED3 e6d4 JNE $DEA9
1821 DED5 b5 CLR A
1822 DED6 9b2f STA *R47
1823 DED8 8ec825 CALL $C825
1824 DEDB e6cc JNE $DEA9
1825 DEDD 8ec828 CALL $C828
1826 DEE0 e0c7 JMP $DEA9
1827 DEE2 5270 MOV %>70,B
1828 DEE4 aa0721 LDA @>0721(B)
1829 DEE7 27011b BTJZ %>01,A,$DF05
1830 DEEA 1523 XOR R35,A R35=disk side number(b0)/drive number(b7)
1831 DEEC e117 JLT $DF05
1832 DEEE aa0729 LDA @>0729(B)
1833 DEF1 d03c MOV A,R60
1834 DEF3 aa0728 LDA @>0728(B)
1835 DEF6 1d24 CMP R36,A
1836 DEF8 e60b JNE $DF05
1837 DEFA 4d253c CMP R37,R60
1838 DEFD e606 JNE $DF05
1839 DEFF b9 POP A
1840 DF00 b9 POP A
1841 DF01 720516 MOV %>05,R22
1842 DF04 0a RETS
1843
1844 -----
1845
1846 -----
1847 DF05 5a10 SUB %>10,B
1848 DF07 e5db JGE $DEE4
1849 DF09 0a RETS
1850
1851 -----
1852 Commande 07= FORMAT
1853 -----
1854 DF0A 5270 MOV %>70,B
1855 DF0C aa0721 LDA @>0721(B)
1856 DF0F 270108 BTJZ %>01,A,$DF1A
1857 DF12 1523 XOR R35,A R35=disk side number(b0)/drive number(b7)
1858 DF14 e104 JLT $DF1A
1859 DF16 720516 MOV %>05,R22
1860 DF19 0a RETS
1861
1862 -----
1863

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1864 -----
1865 DF1A 5a10      SUB    %>10,B
1866 DF1C e5ee      JGE    $DF0C
1867 DF1E 76f01d06 BTJO   %>F0,R29,$DF28
1868 DF22 8ec81f    CALL   $C81F      Appel de la commande
1869 DF25 d116      MOV    B,R22
1870 DF27 0a        RETS
1871 -----
1872 -----
1873 -----
1874 -----
1875 DF28 8ed92c    CALL   $D92C
1876 DF2B 76101d08 BTJO   %>10,R29,$DF37
1877 DF2F 720638    MOV    %>06,R56
1878 DF32 9a38      LDA    *R56
1879 DF34 26800f    BTJO   %>80,A,$DF46
1880 DF37 721038    MOV    %>10,R56
1881 DF3A 9a38      LDA    *R56
1882 DF3C 26fc3f    BTJO   %>FC,A,$DF7E
1883 DF3F 721238    MOV    %>12,R56
1884 DF42 9a38      LDA    *R56
1885 DF44 e638      JNE    $DF7E
1886 DF46 88d00028 MOVD   %>D000,R40      R40=pointer to the sector buffer
1887 DF4A 88000421 MOVD   %>0004,R33     R33=sector number passed to FDC
1888 DF4E 720c2d    MOV    %>0C,R45
1889 DF51 8edf82    CALL   $DF82      ecriture + verif 12 secteurs
1890 DF54 e6cf      JNE    $DF25
1891 DF56 722021    MOV    %>20,R33     R33=sector number passed to FDC
1892 DF59 72102d    MOV    %>10,R45
1893 DF5C 8edf82    CALL   $DF82      ecriture + verif 16 secteurs
1894 DF5F e6c4      JNE    $DF25
1895 DF61 22ff      MOV    %>FF,A
1896 DF63 721238    MOV    %>12,R56
1897 DF66 9b38      STA    *R56
1898 DF68 721038    MOV    %>10,R56
1899 DF6B 9b38      STA    *R56
1900 DF6D 720638    MOV    %>06,R56
1901 DF70 9a38      LDA    *R56
1902 DF72 2480      OR     %>80,A
1903 DF74 9b38      STA    *R56
1904 DF76 d538      CLR    R56
1905 DF78 8ec828    CALL   $C828
1906 DF7B d116      MOV    B,R22
1907 DF7D 0a        RETS
1908 -----
1909 -----
1910 -----
1911 -----
1912 DF7E 726a16    MOV    %>6A,R22
1913 DF81 0a        RETS
1914 -----
1915 -----
1916 Ecriture et lecture de R45 secteurs
1917 -----
1918 DF82 8ec81c    CALL   $C81C <---- ecriture secteur
1919 DF85 e60d      JNE    $DF94 -----|-> retour erreur
1920 DF87 8ec819    CALL   $C819      | lecture secteur
1921 DF8A e608      JNE    $DF94 -----|-> retour erreur
1922 DF8C d321      INC    R33        | R33=sector number passed to FDC
1923 DF8E d327      INC    R39        |
1924 DF90 da2def    DJNZ   R45,$DF82 -
1925 DF93 c5        CLR    B
1926 DF94 0a        RETS
1927 -----
1928 -----
1929 Commande 11= MODIFY DISK PROTECTION
1930 -----
1931 DF95 76ff170d BTJO   %>FF,R23,$DFA6
1932 DF99 d218      DEC    R24

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1933 DF9B e404 JGT $DFA1
1934 DF9D 720116 MOV %>01,R22
1935 DFA0 0a RETS
1936 DFA1 7d1218 CMP %>12,R24
1937 DFA4 e708 JL $DFAE
1938 DFA6 720816 MOV %>08,R22
1939 DFA9 0a RETS
1940
1941 -----
1942
1943 -----
1944 DFAA 721216 MOV %>12,R22
1945 DFAD 0a RETS
1946 DFAE 8ed0c3 CALL $D0C3
1947 DFB1 26f8f6 BTJO %>F8,A,$DFAA
1948 DFB4 d034 MOV A,R52
1949 DFB6 8ed880 CALL $D880
1950 DFB9 e629 JNE $DFE4
1951 DFBB 8edee2 CALL $DEE2
1952 DFBE 8aed01 LDA @>ED01
1953 DFC1 23fc AND %>FC,A
1954 DFC3 1434 OR R52,A
1955 DFC5 8bed01 STA @>ED01
1956 DFC8 8ec825 CALL $C825
1957 DFCB e617 JNE $DFE4
1958 DFCD 8aed01 LDA @>ED01
1959 DFD0 270411 BTJZ %>04,A,$DFE4
1960 DFD3 8ec82b CALL $C82B           controle signature secteur zero
1961 DFD6 e60c JNE $DFE4
1962 DFD8 720638 MOV %>06,R56
1963 DFDB 9a38 LDA *R56
1964 DFDD 2420 OR %>20,A
1965 DFDF 9b38 STA *R56
1966 DFE1 8ec828 CALL $C828
1967 DFE4 d116 MOV B,R22
1968 DFE6 0a RETS
1969
1970 -----
1971 Commande 14= MODIFY FILE NAME
1972 -----
1973 DFE7 76ff1705 BTJO %>FF,R23,$DFF0 -
1974 DFEB 7d0318 CMP %>03,R24 |
1975 DFEE e304 JHS $DFF4 ----- |
1976 DFF0 720116 MOV %>01,R22 <-|-----
1977 DFF3 0a RETS -----|---> retour erreur 01=
1978 DFF4 d218 DEC R24 <-----
1979 DFF6 421836 MOV R24,R54
1980 DFF9 423633 MOV R54,R51
1981 DFFC d534 CLR R52
1982 DFFE 8ed0c3 CALL $D0C3
1983 E001 e207 JEQ $E00A
1984 E003 d334 INC R52
1985 E005 da33f6 DJNZ R51,$DFFE
1986 E008 e0e6 JMP $DFF0 -----> retour erreur 01=
1987 E00A 7d0034 CMP %>00,R52
1988 E00D e2e1 JEQ $DFF0 -----> retour erreur 01=
1989 E00F 7d1234 CMP %>12,R52
1990 E012 e3dc JHS $DFF0 -----> retour erreur 01=
1991 E014 423418 MOV R52,R24
1992 E017 4a3436 SUB R52,R54
1993 E01A e2d4 JEQ $DFF0 -----> retour erreur 01=
1994 E01C 7d1236 CMP %>12,R54
1995 E01F e3cf JHS $DFF0 -----> retour erreur 01=
1996 E021 981510 MOVD R21,R16
1997 E024 f5 TRAP 10
1998 E025 8ed880 CALL $D880
1999 E028 e203 JEQ $E02D
2000 E02A d116 MOV B,R22
2001 E02C 0a RETS

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```

2002 E02D 984025   MOVD   R64,R37
2003 E030 8ec822   CALL  $C822
2004 E033 e6f5     JNE   $E02A
2005 E035 d529     CLR   R41
2006 E037 98422d   MOVD  R66,R45
2007 E03A 2220     MOV   %>20,A
2008 E03C 5210     MOV   %>10,B
2009 E03E 9b2d     STA   *R45
2010 E040 d32d     INC   R45
2011 E042 79002c   ADC   %>00,R44
2012 E045 caf7     DJNZ  B,$E03E
2013 E047 98422d   MOVD  R66,R45
2014 E04A 8ed0c3   CALL  $D0C3
2015 E04D d236     DEC   R54
2016 E04F 8ed0c3   CALL  $D0C3
2017 E052 e404     JGT   $E058
2018 E054 721f16   MOV   %>1F,R22
2019 E057 0a       RETS
2020 E058 2d21     CMP   %>21,A
2021 E05A e7f8     JL    $E054
2022 E05C 2d2e     CMP   %>2E,A
2023 E05E e610     JNE   $E070
2024 E060 4d2d42   CMP   R45,R66
2025 E063 e2ef     JEQ   $E054
2026 E065 98422d   MOVD  R66,R45
2027 E068 780d2d   ADD   %>0D,R45
2028 E06B 79002c   ADC   %>00,R44
2029 E06E e00a     JMP   $E07A
2030 E070 8ed906   CALL  $D906
2031 E073 9b2d     STA   *R45
2032 E075 d32d     INC   R45
2033 E077 79002c   ADC   %>00,R44
2034 E07A 76ff36cf BTJO  %>FF,R54,$E04D
2035 E07E 8ec825   CALL  $C825
2036 E081 e0a7     JMP   $E02A
2037
2038 -----
2039 Commande 12= READ SECTOR
2040 -----
2041 E083 d529     CLR   R41
2042 E085 7d0318   CMP   %>03,R24
2043 E088 e204     JEQ   $E08E -----
2044 E08A 720216   MOV   %>02,R22 <-|-----
2045 E08D 0a       RETS   -----|-----|-> erreur 02=file attributes error
2046 <-----|
2047 E08E 76ff17f8 BTJO  %>FF,R23,$E08A -
2048 E092 8ed0c3   CALL  $D0C3
2049 E095 d021     MOV   A,R33           R33=sector number passed to FDC
2050 E097 8ed0c3   CALL  $D0C3
2051 E09A d020     MOV   A,R32
2052 E09C 8ed0c3   CALL  $D0C3
2053 E09F d02f     MOV   A,R47
2054 E0A1 4d2f19   CMP   R47,R25
2055 E0A4 e304     JHS   $E0AA -----
2056 E0A6 720c16   MOV   %>0C,R22 |
2057 E0A9 0a       RETS   -----|-----> erreur 0c=buffer size
2058 E0AA 422f17   MOV   R47,R23 <--   R47=nombre de secteurs
2059 E0AD d518     CLR   R24           R24=read/write data length
2060 E0AF 88ed0028 MOVD  %>ED00,R40     R40=pointer to the sector buffer
2061 E0B3 d22f     DEC   R47 <-----
2062 E0B5 e7f2     JL    $E0A9 -----|-----> retour (tous les secteurs traites)
2063 E0B7 8ec819   CALL  $C819 |         lecture secteur
2064 E0BA e203     JEQ   $E0BF - |
2065 E0BC d116     MOV   B,R22 |         erreur de lecture
2066 E0BE 0a       RETS   ---|---|-----> retour en erreur
2067 <---|
2068 E0BF 9a28     LDA   *R40 <- |         R40=pointer to the sector buffer
2069 E0C1 8ed0d0   CALL  $D0D0 |         ecriture ram cpu ou vdp
2070 E0C4 d328     INC   R40 |

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2071 E0C6 e6f7     JNE    $E0BF - |
2072 E0C8 d321     INC    R33      |           R33=sector number passed to FDC
2073 E0CA 790020   ADC    %>00,R32 |
2074 E0CD e0e4     JMP    $E0B3 ----|
2075
2076 -----
2077 Commande 13= WRITE SECTOR
2078 -----
2079 E0CF d529     CLR    R41
2080 E0D1 7d0218   CMP    %>02,R24
2081 E0D4 e6b4     JNE    $E08A -----> erreur 02=file attributes error
2082 E0D6 8ed0c3   CALL  $D0C3
2083 E0D9 d021     MOV    A,R33      R33=sector number passed to FDC
2084 E0DB 8ed0c3   CALL  $D0C3
2085 E0DE d020     MOV    A,R32
2086 E0E0 88ed0028 MOVD  %>ED00,R40   R40=pointer to the sector buffer
2087 E0E4 42172f   MOV    R23,R47
2088 E0E7 d22f     DEC    R47 <-----
2089 E0E9 e7be     JL    $E0A9 -----|-> retour
2090 E0EB 8ed0c3   CALL  $D0C3 <-
2091 E0EE 9b28     STA    *R40      |           R40=pointer to the sector buffer
2092 E0F0 d328     INC    R40      |           R40=pointer to the sector buffer
2093 E0F2 e6f7     JNE    $E0EB --
2094 E0F4 8ec81c   CALL  $C81C      |           ecriture secteur
2095 E0F7 e6c3     JNE    $E0BC -----|-> erreur d'ecriture
2096 E0F9 d321     INC    R33      |           R33=sector number passed to FDC
2097 E0FB 790020   ADC    %>00,R32 |
2098 E0FE e0e7     JMP    $E0E7 ----|
2099
2100 -----
2101 Commande 05= RESTORE FILE
2102 -----
2103 E100 8ed9ad   CALL  $D9AD
2104 E103 8ee250   CALL  $E250
2105 E106 3244     MOV    R68,B
2106 E108 8cd685   BR    $D685
2107 E10B 8ec80a   CALL  $C80A
2108 E10E 5214     MOV    %>14,B
2109 E110 2220     MOV    %>20,A
2110 E112 ad06cb   CMPA  @>06CB(B)
2111 E115 e202     JEQ   $E119
2112 E117 caf9     DJNZ  B,$E112
2113 E119 88001718 MOVD  %>0017,R24
2114 E11D 4a0118   SUB    R1,R24
2115 E120 c5       CLR    B
2116 E121 aa06cb   LDA  @>06CB(B)
2117 E124 ab06c8   STA  @>06C8(B)
2118 E127 c3       INC    B
2119 E128 5d15     CMP    %>15,B
2120 E12A e6f5     JNE    $E121
2121 E12C b5       CLR    A
2122 E12D 8b06df   STA  @>06DF
2123 E130 8b06de   STA  @>06DE
2124 E133 8b06dd   STA  @>06DD
2125 E136 d51e     CLR    R30      R30=command code
2126 E138 72f01d   MOV    %>F0,R29
2127 E13B 8800001c MOVD  %>0000,R28
2128 E13F 8800501a MOVD  %>0050,R26
2129 E143 8806df15 MOVD  %>06DF,R21
2130 E147 724113   MOV    %>41,R19   R19=file attribute in PAB
2131 E14A 8ed34c   CALL  $D34C
2132 E14D 76ff1613 BTJO  %>FF,R22,$E164
2133 E151 72031e   MOV    %>03,R30   R30=command code
2134 E154 8aef5b   LDA  @>EF5B
2135 E157 d021     MOV    A,R33      R33=sector number passed to FDC
2136 E159 8aef5a   LDA  @>EF5A
2137 E15C d020     MOV    A,R32
2138 E15E 982123   MOVD  R33,R35     R33=sector number passed to FDC
2139 E161 8ed34c   CALL  $D34C      R35=disk side number(b0)/drive number(b7)

```

```

2140 E164 76ff1677 BTJO  %>FF,R22,$E1DF
2141 E168 8806df25 MOVD  %>06DF,R37
2142 E16C 7d0018  CMP  %>00,R24
2143 E16F e2f0    JEQ   $E161
2144 E171 8ee1f4   CALL  $E1F4
2145 E174 d026    MOV   A,R38
2146 E176 2d4b    CMP  %>4B,A
2147 E178 e609    JNE   $E183
2148 E17A 520c    MOV  %>0C,B
2149 E17C 8ee1f4   CALL  $E1F4
2150 E17F cafb    DJNZ  B,$E17C
2151 E181 e0e9    JMP   $E16C
2152 E183 5204    MOV  %>04,B
2153 E185 2d32    CMP  %>32,A
2154 E187 e2f3    JEQ   $E17C
2155 E189 ade24b   CMPA  @>E24B(B)
2156 E18C e2d3    JEQ   $E161
2157 E18E caf9    DJNZ  B,$E189
2158 E190 8ee21c   CALL  $E21C
2159 E193 7d2a26   CMP  %>2A,R38
2160 E196 e605    JNE   $E19D
2161 E198 8ee204   CALL  $E204
2162 E19B e0cf    JMP   $E16C
2163 E19D 7d4226   CMP  %>42,R38
2164 E1A0 e60b    JNE   $E1AD
2165 E1A2 8ee204   CALL  $E204
2166 E1A5 8ee21c   CALL  $E21C
2167 E1A8 8ee204   CALL  $E204
2168 E1AB e0bf    JMP   $E16C
2169 E1AD 7d4326   CMP  %>43,R38
2170 E1B0 e615    JNE   $E1C7
2171 E1B2 d026    MOV   A,R38
2172 E1B4 8ee21c   CALL  $E21C
2173 E1B7 c0      MOV   A,B
2174 E1B8 1226    MOV   R38,A
2175 E1BA 3821    ADD   R33,B      R33=sector number passed to FDC
2176 E1BC 1920    ADC   R32,A
2177 E1BE 8ee204   CALL  $E204
2178 E1C1 62      MOV   B,A
2179 E1C2 8ee204   CALL  $E204
2180 E1C5 e0a5    JMP   $E16C
2181 E1C7 7d4126   CMP  %>41,R38
2182 E1CA e62e    JNE   $E1FA
2183 E1CC d026    MOV   A,R38
2184 E1CE 8ee21c   CALL  $E21C
2185 E1D1 982123   MOVD  R33,R35     R33=sector number passed to FDC
2186 E1D4 480023   ADD   R0,R35     R35=disk side number(b0)/drive number(b7)
2187 E1D7 492622   ADC   R38,R34    R34=track number passed to FDC
2188 E1DA e090    JMP   $E16C
2189 E1DC 72f116   MOV  %>F1,R22
2190 E1DF d816    PUSH  R22
2191 E1E1 72011e   MOV  %>01,R30     R30=command code
2192 E1E4 8ed34c   CALL  $D34C
2193 E1E7 d916    POP   R22
2194 E1E9 7d0716   CMP  %>07,R22
2195 E1EC e602    JNE   $E1F0
2196 E1EE d516    CLR  R22
2197 E1F0 982110   MOVD  R33,R16     R33=sector number passed to FDC
2198 E1F3 0a      RETS
2199
2200 -----
2201
2202 -----
2203 E1F4 d218    DEC   R24
2204 E1F6 e507    JGE   $E1FF
2205 E1F8 b9      POP   A
2206 E1F9 b9      POP   A
2207 E1FA 72f016   MOV  %>F0,R22
2208 E1FD e0e0    JMP   $E1DF

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2209 E1FF 9a25      LDA    *R37
2210 E201 db25      DECD   R37
2211 E203 0a        RETS
2212 -----
2213 -----
2214 -----
2215 -----
2216 E204 7d8022    CMP    %>80,R34      R34=track number passed to FDC
2217 E207 e607      JNE    $E210
2218 E209 8abfe1    LDA    @>BFE1
2219 E20C 2daa      CMP    %>AA,A
2220 E20E e2cc      JEQ    $E1DC
2221 E210 9b23      STA    *R35          R35=disk side number(b0)/drive number(b7)
2222 E212 9d23      CMPA   *R35          R35=disk side number(b0)/drive number(b7)
2223 E214 e6c6      JNE    $E1DC
2224 E216 d323      INC    R35          R35=disk side number(b0)/drive number(b7)
2225 E218 790022    ADC    %>00,R34     R34=track number passed to FDC
2226 E21B 0a        RETS
2227 -----
2228 -----
2229 -----
2230 -----
2231 E21C 7d0218    CMP    %>02,R24
2232 E21F e7d7      JL     $E1F8
2233 E221 8ee1f4    CALL  $E1F4
2234 E224 8ee232    CALL  $E232
2235 E227 c0        MOV    A,B
2236 E228 5c10      MPY    %>10,B
2237 E22A 8ee1f4    CALL  $E1F4
2238 E22D 8ee232    CALL  $E232
2239 E230 68        ADD    B,A
2240 E231 0a        RETS
2241 -----
2242 -----
2243 -----
2244 -----
2245 E232 2d41      CMP    %>41,A
2246 E234 e707      JL     $E23D
2247 E236 2d47      CMP    %>47,A
2248 E238 e30e      JHS   $E248
2249 E23A 2a37      SUB    %>37,A
2250 E23C 0a        RETS
2251 E23D 2d30      CMP    %>30,A
2252 E23F e707      JL     $E248
2253 E241 2d3a      CMP    %>3A,A
2254 E243 e303      JHS   $E248
2255 E245 2a30      SUB    %>30,A
2256 E247 0a        RETS
2257 -----
2258 -----
2259 -----
2260 -----
2261 E248 b9        POP    A
2262 E249 b9        POP    A
2263 E24A e0ac      JMP    $E1F8
2264 E24C 37383a    BTJZ  R56,B,$E289
2265 E24F 46981857 BTJO  R152,R24,$E2AA
2266 E253 7620461c BTJO  %>20,R70,$E273
2267 E257 8800004a MOVD  %>0000,R74
2268 E25B 8800004c MOVD  %>0000,R76
2269 E25F 88000048 MOVD  %>0000,R72
2270 E263 981c59    MOVD  R28,R89
2271 E266 db59      DECD   R89
2272 E268 e760      JL     $E2CA
2273 E26A 8ed9d4    CALL  $D9D4
2274 E26D 76ff1659 BTJO  %>FF,R22,$E2CA
2275 E271 e0f3      JMP    $E266
2276 E273 983a3c    MOVD  R58,R60
2277 E276 72033c    MOV   %>03,R60

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2278 E279 9a3c LDA *R60
2279 E27B c0 MOV A,B
2280 E27C d23c DEC R60
2281 E27E 9a3c LDA *R60
2282 E280 4d001b CMP R0,R27
2283 E283 e603 JNE $E288
2284 E285 4d011c CMP R1,R28
2285 E288 e731 JL $E2BB
2286 E28A 98012d MOVD R1,R45
2287 E28D 98502f MOVD R80,R47
2288 E290 78022f ADD %>02,R47
2289 E293 79002e ADC %>00,R46
2290 E296 72ff33 MOV %>FF,R51
2291 E299 8ee2d3 CALL $E2D3
2292 E29C 7710462e BTJZ %>10,R70,$E2CE
2293 E2A0 981c59 MOVD R28,R89
2294 E2A3 db2d DECD R45
2295 E2A5 4a2d59 SUB R45,R89
2296 E2A8 4b2c58 SBB R44,R88
2297 E2AB db59 DECD R89
2298 E2AD e70c JL $E2BB
2299 E2AF 985018 MOVD R80,R24
2300 E2B2 8edbe2 CALL $DBE2
2301 E2B5 76ff1611 BTJO %>FF,R22,$E2CA
2302 E2B9 e0f0 JMP $E2AB
2303 E2BB 981c2d MOVD R28,R45
2304 E2BE 98502f MOVD R80,R47
2305 E2C1 78022f ADD %>02,R47
2306 E2C4 79002e ADC %>00,R46
2307 E2C7 8ee2d3 CALL $E2D3
2308 E2CA 985718 MOVD R87,R24
2309 E2CD 0a RETS
2310
2311 -----
2312
2313 -----
2314 E2CE 720716 MOV %>07,R22
2315 E2D1 e0f7 JMP $E2CA
2316 E2D3 982d48 MOVD R45,R72
2317 E2D6 e60d JNE $E2E5
2318 E2D8 76ff4809 BTJO %>FF,R72,$E2E5
2319 E2DC 8800004a MOVD %>0000,R74
2320 E2E0 8800004c MOVD %>0000,R76
2321 E2E4 0a RETS
2322
2323 -----
2324
2325 -----
2326 E2E5 4c2d2f MPY R45,R47
2327 E2E8 980136 MOVD R1,R54
2328 E2EB 4c2c2f MPY R44,R47
2329 E2EE 480135 ADD R1,R53
2330 E2F1 2900 ADC %>00,A
2331 E2F3 d034 MOV A,R52
2332 E2F5 4c2d2e MPY R45,R46
2333 E2F8 480135 ADD R1,R53
2334 E2FB 490034 ADC R0,R52
2335 E2FE 4c2c2e MPY R44,R46
2336 E301 480134 ADD R1,R52
2337 E304 98364c MOVD R54,R76
2338 E307 73014b AND %>01,R75
2339 E30A dd34 RRC R52
2340 E30C dd35 RRC R53
2341 E30E 76014b0a BTJO %>01,R75,$E31C
2342 E312 76ff4c06 BTJO %>FF,R76,$E31C
2343 E316 77ff3302 BTJZ %>FF,R51,$E31C
2344 E31A db35 DECD R53
2345 E31C 983a31 MOVD R58,R49
2346 E31F 720a31 MOV %>0A,R49

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2347 E322 780531 ADD    %>05,R49
2348 E325 9a31   LDA    *R49
2349 E327 c0     MOV    A,B
2350 E328 db31   DECD  R49
2351 E32A 9a31   LDA    *R49
2352 E32C d04a   MOV    A,R74
2353 E32E db31   DECD  R49
2354 E330 9a31   LDA    *R49
2355 E332 d049   MOV    A,R73
2356 E334 76ff3405 BTJO  %>FF,R52,$E33D
2357 E338 4d0135 CMP    R1,R53
2358 E33B e708   JL     $E345
2359 E33D 4a0135 SUB    R1,R53
2360 E340 7b0034 SBB   %>00,R52
2361 E343 e0dd   JMP    $E322
2362 E345 48354a ADD    R53,R74
2363 E348 790049 ADC    %>00,R73
2364 E34B 0a     RETS
2365
2366 -----
2367
2368 -----
2369 E34C 8ee4a7 CALL  $E4A7
2370 E34F 7d0026 CMP    %>00,R38
2371 E352 e615   JNE   $E369
2372 E354 8ee459 CALL  $E459
2373 E357 8ac0bd LDA    @>C0BD
2374 E35A 8bc295 STA    @>C295
2375 E35D 8ac0be LDA    @>C0BE
2376 E360 2d18   CMP    %>18,A
2377 E362 e701   JL     $E365
2378 E364 b2     DEC    A
2379 E365 8bc296 STA    @>C296
2380 E368 0a     RETS
2381
2382 -----
2383
2384 -----
2385 E369 8ee657 CALL  $E657
2386 E36C 7dc026 CMP    %>C0,R38
2387 E36F e625   JNE   $E396
2388 E371 722c0e MOV    %>2C,R14      R14=vdp write address pointer for trap
2389 E374 8ec810 CALL  $C810
2390 E377 72300e MOV    %>30,R14      R14=vdp write address pointer for trap
2391 E37A 8ec810 CALL  $C810
2392 E37D 887ffb0e MOVD  %>7FFB,R14      R14=vdp write address pointer for trap
2393 E381 8ec86d CALL  $C86D
2394 E384 2dff   CMP    %>FF,A
2395 E386 e604   JNE   $E38C
2396 E388 7680501f BTJO  %>80,R80,$E3AB
2397 E38C 98510e MOVD  R81,R14      R14=vdp write address pointer for trap
2398 E38F f6     TRAP  9
2399 E390 d728   SWAP  R40
2400 E392 2d51   CMP    %>51,A
2401 E394 e706   JL     $E39C
2402 E396 8ee4a0 CALL  $E4A0
2403 E399 2201   MOV    %>01,A
2404 E39B e8     TRAP  23
2405 E39C c0     MOV    A,B
2406 E39D 88064f0e MOVD  %>064F,R14      R14=vdp write address pointer for trap
2407 E3A1 d728   SWAP  R40
2408 E3A3 9b0e   STA    *R14      R14=vdp write address pointer for trap
2409 E3A5 db0e   DECD  R14      R14=vdp write address pointer for trap
2410 E3A7 caf8   DJNZ  B,$E3A1
2411 E3A9 e017   JMP    $E3C2
2412 E3AB 9a51   LDA    *R81
2413 E3AD 2d51   CMP    %>51,A
2414 E3AF e3e5   JHS   $E396
2415 E3B1 c0     MOV    A,B

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```

2416 E3B2 88064f0e MOVD  %>064F,R14      R14=vdp write address pointer for trap
2417 E3B6 db51      DECD  R81
2418 E3B8 9a51      LDA   *R81
2419 E3BA 9b0e      STA   *R14      R14=vdp write address pointer for trap
2420 E3BC db0e      DECD  R14      R14=vdp write address pointer for trap
2421 E3BE db51      DECD  R81
2422 E3C0 caf6      DJNZ  B,$E3B8
2423 E3C2 723c0e     MOV   %>3C,R14      R14=vdp write address pointer for trap
2424 E3C5 8ec810     CALL  $C810
2425 E3C8 8ee4b1     CALL  $E4B1
2426 E3CB 8ee528     CALL  $E528
2427 E3CE 8ee4be     CALL  $E4BE
2428 E3D1 8ec858     CALL  $C858
2429 E3D4 8ee357     CALL  $E357
2430 E3D7 8802c110  MOVD  %>02C1,R16
2431 E3DB 8ed0a5     CALL  $D0A5
2432 E3DE 8ee4a0     CALL  $E4A0
2433 E3E1 76ff1601  BTJO  %>FF,R22,$E3E6
2434 E3E5 0a        RETS
2435
2436 -----
2437
2438 -----
2439 E3E6 b5        CLR   A
2440 E3E7 d51d      CLR   R29
2441 E3E9 e8        TRAP  23
2442 E3EA 22c8      MOV   %>C8,A
2443 E3EC 8bc0c2    STA   @>C0C2
2444 E3EF 8ee4ae    CALL  $E4AE
2445 E3F2 8ec858    CALL  $C858
2446 E3F5 8ee657    CALL  $E657
2447 E3F8 e065      JMP   $E45F
2448 E3FA 981001    MOVD  R16,R1
2449 E3FD 8bc0c0    STA   @>C0C0
2450 E400 62        MOV   B,A
2451 E401 8bc0c1    STA   @>C0C1
2452 E404 1212      MOV   R18,A
2453 E406 8bc0c2    STA   @>C0C2
2454 E409 1211      MOV   R17,A
2455 E40B 8bc0c3    STA   @>C0C3
2456 E40E a2062d    MOVVP %>06,P45
2457 E411 a2c82d    MOVVP %>C8,P45
2458 E414 120d      MOV   R13,A
2459 E416 8bc0bf    STA   @>C0BF
2460 E419 120e      MOV   R14,A      R14=vdp write address pointer for trap
2461 E41B 8bc0c4    STA   @>C0C4
2462 E41E 88001801 MOVD  %>0018,R1
2463 E422 abc0a4    STA   @>C0A4(B)
2464 E425 cafb      DJNZ  B,$E422
2465 E427 2210      MOV   %>10,A
2466 E429 8bc0a4    STA   @>C0A4
2467 E42C 98100e    MOVD  R16,R14      R14=vdp write address pointer for trap
2468 E42F f7        TRAP  8
2469 E430 c5        CLR   B
2470 E431 72190d    MOV   %>19,R13
2471 E434 72280e    MOV   %>28,R14      R14=vdp write address pointer for trap
2472 E437 8ac0bf    LDA   @>C0BF
2473 E43A 822e      MOVVP A,P46
2474 E43C 922e      MOVVP B,P46
2475 E43E da0ef9    DJNZ  R14,$E43A      R14=vdp write address pointer for trap
2476 E441 8ac0c4    LDA   @>C0C4
2477 E444 23e0      AND   %>E0,A
2478 E446 822e      MOVVP A,P46
2479 E448 822e      MOVVP A,P46
2480 E44A da0de7    DJNZ  R13,$E434
2481 E44D 8ee3ef    CALL  $E3EF
2482 E450 8ac0c2    LDA   @>C0C2
2483 E453 a2062d    MOVVP %>06,P45
2484 E458 0a        RETS

```

```

2485
2486 -----
2487
2488 -----
2489 E459 8ee4b1    CALL    $E4B1
2490 E45C 8ee528    CALL    $E528
2491 E45F 8ee79d    CALL    $E79D
2492 E462 88e66d12  MOVD    %>E66D,R18 <---
2493 E466 8aef5e    LDA     @>EF5E
2494 E469 2d41       CMP     %>41,A
2495 E46B e204       JEQ     $E471 -----
2496 E46D 88e67412  MOVD    %>E674,R18 |
2497 E471 8ec852    CALL    $C852 <-----
2498 E474 d524       CLR     R36
2499 E476 72501a    MOV     %>50,R26
2500 E479 88064f20  MOVD    %>064F,R32
2501 E47D 8ee7b4    CALL    $E7B4
2502 E480 2d0d       CMP     %>0D,A
2503 E482 e6de       JNE     $E462 ----->
2504 E484 5250       MOV     %>50,B
2505 E486 aa05ff    LDA     @>05FF(B) <-
2506 E489 8ed906    CALL    $D906
2507 E48C ab05ff    STA     @>05FF(B) |
2508 E48F caf5       DJNZ   B,$E486 ----
2509 E491 8ee4be    CALL    $E4BE
2510 E494 e0cc       JMP     $E462 -----
2511
2512 -----
2513
2514 -----
2515 E496 8ec858    CALL    $C858
2516 E499 8802c110  MOVD    %>02C1,R16
2517 E49D 8ed0a5    CALL    $D0A5
2518 E4A0 88065801  MOVD    %>0658,R1
2519 E4A4 8cd513    BR     $D513
2520 E4A7 88065801  MOVD    %>0658,R1
2521 E4AB 8cd4a9    BR     $D4A9
2522 E4AE 8ee4a7    CALL    $E4A7
2523 E4B1 8802c110  MOVD    %>02C1,R16
2524 E4B5 8cd082    BR     $D082
2525
2526 E4B8 c8         PUSH   B
2527 E4B9 40         ????.
2528 E4BA c8         PUSH   B
2529 E4BB 430000    AND    R0,R0
2530
2531
2532 -----
2533 Execution d'une commande
2534 -----
2535 E4BE 5250       MOV     %>50,B
2536 E4C0 88064f0e  MOVD    %>064F,R14
2537 E4C4 8ee5d8    CALL    $E5D8
2538 E4C7 e21c       JEQ     $E4E5 -----> retour
2539 E4C9 8806df10  MOVD    %>06DF,R16
2540 E4CD 9a0e       LDA     *R14 <---
2541 E4CF 9b10       STA     *R16
2542 E4D1 2d20       CMP     %>20,A
2543 E4D3 e211       JEQ     $E4E6 ---|---
2544 E4D5 db0e       DECD   R14
2545 E4D7 db10       DECD   R16
2546 E4D9 caf2       DJNZ   B,$E4CD -
2547 E4DB 721f16    MOV     %>1F,R22
2548 E4DE d816       PUSH   R22 <-----|-----
2549 E4E0 8eea6a    CALL    $EA6A
2550 E4E3 d916       POP    R22
2551 E4E5 0a        RETS
2552 E4E6 981012    MOVD    R16,R18 <---
2553 E4E9 88efc010  MOVD    %>EFC0,R16

```

saisie d'une commande
touche return ?

80 octets en 05FF

execution de la commande

affichage du message d'erreur

---> retour

```

2554 E4ED 8ee5d8 CALL $E5D8
2555 E4F0 e216 JEQ $E508 -----
2556 E4F2 2d20 CMP %>20,A <--
2557 E4F4 e605 JNE $E4FB - |
2558 E4F6 8ee5d8 CALL $E5D8 | |
2559 E4F9 e20b JEQ $E506 -|---|--
2560 E4FB 9a0e LDA *R14 <- |
2561 E4FD 9b10 STA *R16 |
2562 E4FF db0e DECD R14 |
2563 E501 c2 DEC B |
2564 E502 d310 INC R16 |
2565 E504 e6ec JNE $E4F2 ---- |
2566 E506 d210 DEC R16 <-----
2567 E508 b5 CLR A <-----
2568 E509 9b10 STA *R16
2569 E50B 8ee634 CALL $E634
2570 E50E e203 JEQ $E513 --
2571 E510 8ee646 CALL $E646 |
2572 E513 8ec858 CALL $C858 <-
2573 E516 8ee5e5 CALL $E5E5
2574 E519 981014 MOVD R16,R20
2575 E51C 8ec858 CALL $C858
2576 E51F 76ff1602 BTJO %>FF,R22,$E525 -
2577 E523 9c14 BR *R20 -----|--- --> branchement au traitement de la commande
2578 <-----
2579 E525 8ce4de BR $E4DE -----
2580
2581 -----
2582
2583 -----
2584 E528 b5 CLR A
2585 E529 8b0653 STA @>0653
2586 E52C 8b0650 STA @>0650
2587 E52F 8b0651 STA @>0651
2588 E532 8ac295 LDA @>C295
2589 E535 8bc0bd STA @>C0BD
2590 E538 8ac296 LDA @>C296
2591 E53B 8bc0be STA @>C0BE
2592 E53E 88c0bc0e MOVD %>C0BC,R14 R14=vdp write address pointer for trap
2593 E542 8ac2ad LDA @>C2AD
2594 E545 c0 MOV A,B
2595 E546 c8 PUSH B
2596 E547 b5 CLR A
2597 E548 9b0e STA *R14 R14=vdp write address pointer for trap
2598 E54A db0e DECD R14
2599 E54C cafa DJNZ B,$E548
2600 E54E 5219 MOV %>19,B
2601 E550 8ac29f LDA @>C29F
2602 E553 3a00 SUB R0,B
2603 E555 b9 POP A
2604 E556 3a00 SUB R0,B
2605 E558 e215 JEQ $E56F
2606 E55A 8ac109 LDA @>C109
2607 E55D d010 MOV A,R16
2608 E55F 8bc0c3 STA @>C0C3
2609 E562 2208 MOV %>08,A
2610 E564 77041001 BTJZ %>04,R16,$E569
2611 E568 be RL A
2612 E569 9b0e STA *R14 R14=vdp write address pointer for trap
2613 E56B db0e DECD R14
2614 E56D caf3 DJNZ B,$E562
2615 E56F 8ac29f LDA @>C29F
2616 E572 e208 JEQ $E57C
2617 E574 c0 MOV A,B
2618 E575 b5 CLR A
2619 E576 9b0e STA *R14 R14=vdp write address pointer for trap
2620 E578 db0e DECD R14
2621 E57A cafa DJNZ B,$E576
2622 E57C 2290 MOV %>90,A

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```

2623 E57E 8bc0a4 STA @>C0A4
2624 E581 8ac103 LDA @>C103
2625 E584 8bc0c1 STA @>C0C1
2626 E587 8ac102 LDA @>C102
2627 E58A 8bc0c0 STA @>C0C0
2628 E58D 8ac299 LDA @>C299
2629 E590 8bc0bf STA @>C0BF
2630 E593 22c8 MOV %>C8,A
2631 E595 8bc0c2 STA @>C0C2
2632 E598 8ac29a LDA @>C29A
2633 E59B 8bc0c4 STA @>C0C4
2634 E59E 8ec858 CALL $C858
2635 E5A1 0a RETS
2636
2637 -----
2638
2639 -----
2640 E5A2 88eafe10 MOVD %>EAFE,R16
2641 E5A6 8806df0e MOVD %>06DF,R14 R14=vdp write address pointer for trap
2642 E5AA e008 JMP $E5B4
2643 E5AC 2803 ADD %>03,A
2644 E5AE 4a0010 SUB R0,R16
2645 E5B1 7b000f SBB %>00,R15
2646 E5B4 9a10 LDA *R16
2647 E5B6 e117 JLT $E5CF
2648 E5B8 c0 MOV A,B
2649 E5B9 db10 DECD R16
2650 E5BB e004 JMP $E5C1
2651 E5BD db0e DECD R14 R14=vdp write address pointer for trap
2652 E5BF db10 DECD R16
2653 E5C1 9a10 LDA *R16
2654 E5C3 9d0e CMPA *R14 R14=vdp write address pointer for trap
2655 E5C5 e609 JNE $E5D0
2656 E5C7 caf4 DJNZ B,$E5BD
2657 E5C9 db0e DECD R14 R14=vdp write address pointer for trap
2658 E5CB 9a0e LDA *R14 R14=vdp write address pointer for trap
2659 E5CD 2d20 CMP %>20,A
2660 E5CF 0a RETS
2661
2662 -----
2663
2664 -----
2665 E5D0 c2 DEC B
2666 E5D1 62 MOV B,A
2667 E5D2 8806df0e MOVD %>06DF,R14 R14=vdp write address pointer for trap
2668 E5D6 e0d4 JMP $E5AC
2669 E5D8 2220 MOV %>20,A
2670 E5DA 9d0e CMPA *R14 R14=vdp write address pointer for trap
2671 E5DC e606 JNE $E5E4
2672 E5DE db0e DECD R14 R14=vdp write address pointer for trap
2673 E5E0 caf8 DJNZ B,$E5DA
2674 E5E2 3d01 CMP R1,B
2675 E5E4 0a RETS
2676
2677 -----
2678
2679 -----
2680 E5E5 8ee634 CALL $E634
2681 E5E8 2220 MOV %>20,A
2682 E5EA ab06cb STA @>06CB(B)
2683 E5ED d112 MOV B,R18
2684 E5EF 8ee5a2 CALL $E5A2
2685 E5F2 e231 JEQ $E625
2686 E5F4 3212 MOV R18,B
2687 E5F6 222e MOV %>2E,A
2688 E5F8 ab06cb STA @>06CB(B)
2689 E5FB 8a06de LDA @>06DE
2690 E5FE 2d3a CMP %>3A,A
2691 E600 e619 JNE $E61B

```

```

2692 E602 8a06df LDA @>06DF
2693 E605 2823 ADD %>23,A
2694 E607 2d66 CMP %>66,A
2695 E609 e602 JNE $E60D
2696 E60B 2202 MOV %>02,A
2697 E60D d01f MOV A,R31
2698 E60F 5214 MOV %>14,B
2699 E611 aa06c9 LDA @>06C9(B)
2700 E614 ab06cb STA @>06CB(B)
2701 E617 caf8 DJNZ B,$E611
2702 E619 e007 JMP $E622
2703 E61B 8aef5e LDA @>EF5E
2704 E61E 2823 ADD %>23,A
2705 E620 d01f MOV A,R31
2706 E622 8ce10b BR $E10B
2707 E625 db10 DECD R16
2708 E627 9a10 LDA *R16
2709 E629 c0 MOV A,B
2710 E62A db10 DECD R16
2711 E62C 9a10 LDA *R16
2712 E62E 980110 MOVD R1,R16
2713 E631 d516 CLR R22
2714 E633 0a RETS
2715
2716 -----
2717
2718 -----
2719 E634 5214 MOV %>14,B
2720 E636 aa06cb LDA @>06CB(B)
2721 E639 2d2e CMP %>2E,A
2722 E63B e208 JEQ $E645
2723 E63D 2d20 CMP %>20,A
2724 E63F e202 JEQ $E643
2725 E641 caf3 DJNZ B,$E636
2726 E643 2201 MOV %>01,A
2727 E645 0a RETS
2728 E646 5205 MOV %>05,B
2729 E648 aae651 LDA @>E651(B)
2730 E64B 9b12 STA *R18
2731 E64D db12 DECD R18
2732 E64F caf7 DJNZ B,$E648
2733 E651 0a RETS
2734
2735 E652 20 ????
2736 E653 4a424f SUB R66,R79
2737 E656 2e52 DAC %>52,A
2738 E658 50 ????
2739 E659 2220 MOV %>20,A
2740 E65B ab05ff STA @>05FF(B)
2741 E65E cafb DJNZ B,$E65B
2742 E660 0a RETS
2743
2744 -----
2745
2746 -----
2747 E661 2242 MOV %>42,A
2748 E663 8bef5e STA @>EF5E
2749 E666 0a RETS
2750
2751 -----
2752
2753 -----
2754 E667 2241 MOV %>41,A
2755 E669 8bef5e STA @>EF5E
2756 E66C 0a RETS
2757
2758 -----
2759
2760 -----

```



```

2761 E66D 0d      LDSP
2762 E66E 0a      RETS
2763
2764 -----
2765
2766 -----
2767 E66F 5b41     SBB    %>41,B
2768 E671 5d20     CMP    %>20,B
2769 E673 00      NOP
2770 E674 0d      LDSP
2771 E675 0a      RETS
2772
2773 -----
2774
2775 -----
2776 E676 5b42     SBB    %>42,B
2777 E678 5d20     CMP    %>20,B
2778 E67A 00      NOP
2779 E67B 8a0653   LDA    @>0653
2780 E67E 2510     XOR    %>10,A
2781 E680 8b0653   STA    @>0653
2782 E683 0a      RETS
2783
2784 -----
2785
2786 -----
2787 E684 8ee698   CALL   $E698
2788 E687 e6fa     JNE    $E683
2789 E689 72011e   MOV    %>01,R30          R30=command code
2790 E68C 8ed34c   CALL   $D34C
2791 E68F 76ff1602 BTJO   %>FF,R22,$E695
2792 E693 e0ef     JMP    $E684
2793 E695 8ce4de   BR     $E4DE
2794 E698 5270     MOV    %>70,B
2795 E69A aa0721   LDA    @>0721(B)
2796 E69D 270113   BTJZ   %>01,A,$E6B3
2797 E6A0 aa0720   LDA    @>0720(B)
2798 E6A3 d01d     MOV    A,R29
2799 E6A5 aa0721   LDA    @>0721(B)
2800 E6A8 72641f   MOV    %>64,R31
2801 E6AB 278002   BTJZ   %>80,A,$E6B0
2802 E6AE d31f     INC    R31
2803 E6B0 3d01     CMP    R1,B
2804 E6B2 0a      RETS
2805
2806 -----
2807
2808 -----
2809 E6B3 5a10     SUB    %>10,B
2810 E6B5 e5e3     JGE    $E69A
2811 E6B7 0a      RETS
2812
2813 -----
2814
2815 -----
2816 E6B8 8ac0c0   LDA    @>C0C0
2817 E6BB d00f     MOV    A,R15
2818 E6BD 8ac0c1   LDA    @>C0C1
2819 E6C0 d010     MOV    A,R16
2820 E6C2 72c812   MOV    %>C8,R18
2821 E6C5 8ac0bf   LDA    @>C0BF
2822 E6C8 d00d     MOV    A,R13
2823 E6CA 8ac0c4   LDA    @>C0C4
2824 E6CD d00e     MOV    A,R14          R14=vdp write address pointer for trap
2825 E6CF 8ac0c3   LDA    @>C0C3
2826 E6D2 2401     OR     %>01,A
2827 E6D4 d011     MOV    A,R17
2828 E6D6 720a1e   MOV    %>0A,R30          R30=command code
2829 E6D9 72021f   MOV    %>02,R31

```

```

2830 E6DC 8ec80d CALL $C80D
2831 E6DF 7dff16 CMP %>FF,R22
2832 E6E2 e2b1 JEQ $E695
2833 E6E4 5218 MOV %>18,B
2834 E6E6 b5 CLR A
2835 E6E7 abc0a4 STA @>C0A4(B)
2836 E6EA cafb DJNZ B,$E6E7
2837 E6EC b5 CLR A
2838 E6ED 8bc0bd STA @>C0BD
2839 E6F0 2217 MOV %>17,A
2840 E6F2 8bc0be STA @>C0BE
2841 E6F5 8ec858 CALL $C858
2842 E6F8 76ff165b BTJO %>FF,R22,$E757
2843 E6FC 0a RETS
2844
2845 -----
2846 Commande ROM
2847 -----
2848 E6FD 8af006 LDA @>F006
2849 E700 2dff CMP %>FF,A
2850 E702 e21c JEQ $E720 ----- EXL100
2851 ==== EXELTEL =====
2852 E704 8aefc0 LDA @>EFC0
2853 E707 e606 JNE $E70F -----
2854 E709 720a16 MOV %>0A,R22 <---|
2855 E70C 8cea6a BR $EA6A -----|---|--->
2856 E70F 2a30 SUB %>30,A <---|
2857 E711 e1f6 JLT $E709
2858 E713 26f8f3 BTJO %>F8,A,$E709 -
2859 E716 b8 PUSH A
2860 E717 8ee684 CALL $E684
2861 E71A b9 POP A
2862 E71B 8ef028 CALL $F028
2863 E71E e006 JMP $E726 -----
2864 <-----|
2865 ==== EXL100 =====
2866 E720 8ee684 CALL $E684
2867 E723 8ec807 CALL $C807
2868 =====
2869 E726 887ffc0e MOVD %>7FFC,R14 <---
2870 E72A 8ee746 CALL $E746 <-----
2871 E72D 9a0e LDA *R14
2872 E72F 2daa CMP %>AA,A
2873 E731 e207 JEQ $E73A --
2874 E733 2d55 CMP %>55,A |
2875 E735 e61a JNE $E751 --|---|
2876 E737 740402 OR %>04,R2 |
2877 <-----|
2878 E73A 8ce75a BR $E75A -----|---|
2879 E73D 8ee684 CALL $E684
2880 E740 8880000e MOVD %>8000,R14 |
2881 E744 e0e4 JMP $E72A -----|
2882
2883 -----
2884
2885 -----
2886 E746 8ac0c9 LDA @>C0C9
2887 E749 2410 OR %>10,A
2888 E74B 8bc0c9 STA @>C0C9
2889 E74E 8240 MOVP A,P64
2890 E750 0a RETS
2891
2892 -----
2893
2894 -----
2895 E751 8ec80a CALL $C80A <----- SELRAM= selection ram disquette
2896 E754 72ff16 MOV %>FF,R22
2897 E757 8ce4de BR $E4DE -----|---> retour erreur
2898 E75A 980e01 MOVD R14,R1 <-----

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```

2899 E75D c3      INC      B
2900 E75E 8bc007   STA      @>C007
2901 E761 62      MOV      B,A
2902 E762 8bc008   STA      @>C008
2903 E765 228c     MOV      %>8C,A
2904 E767 8bc006   STA      @>C006
2905 E76A 8bc00c   STA      @>C00C
2906 E76D 8bc029   STA      @>C029
2907 E770 b5      CLR      A
2908 E771 5206     MOV      %>06,B
2909 E773 abffff   STA      @>BFFF(B)
2910 E776 cafb     DJNZ     B,$E773
2911 E778 88c6000e MOVD     %>C600,R14
2912 E77C 88050010 MOVD     %>0500,R16
2913 E780 9b0e     STA      *R14
2914 E782 db0e     DECD     R14
2915 E784 db10     DECD     R16
2916 E786 e3f8     JHS      $E780
2917 E788 527d     MOV      %>7D,B
2918 E78A ab0002   STA      @>0002(B)
2919 E78D cafb     DJNZ     B,$E78A
2920 E78F 09      STSP
2921 E790 8ac0c5   LDA      @>C0C5
2922 E793 5203     MOV      %>03,B
2923 E795 abc0c5   STA      @>C0C5(B)
2924 E798 cafb     DJNZ     B,$E795
2925 E79A 8cc006   BR       $C006
2926 E79D 88e7a412 MOVD     %>E7A4,R18
2927 E7A1 8cc852   BR       $C852
2928 E7A4 0a      RETS

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```

-----
2933 E7A5 0d      LDSP
2934 E7A6 455845  XOR     R88,R69
2935 E7A9 4c444f  MPY     R68,R79
2936 E7AC 5320    AND     %>20,B
2937 E7AE 20      ?????
2938 E7AF 56312e  BTJO   %>31,B,$E7E0
2939 E7B2 3400    OR     R0,B

```

```

-----
2942 Boucle de saisie d'une commande
-----

```

```

2944 E7B4 88000019 MOVD   %>0000,R25
2945 E7B8 98201e  MOVD   R32,R30
2946 E7BB d517    CLR    R23
2947 E7BD d21a    DEC    R26
2948 E7BF 8ee8da  CALL   $E8DA
2949 E7C2 98011c  MOVD   R1,R28
2950 E7C5 8ec846  CALL   $C846 <-----
2951 E7C8 520f    MOV    %>0F,B
2952 E7CA adea3c  CMPA   @>EA3C(B) <--
2953 E7CD e611    JNE    $E7E0 ----
2954 E7CF ce      RL     B
2955 E7D0 b8      PUSH   A
2956 E7D1 aaea4a  LDA    @>EA4A(B)
2957 E7D4 d00d    MOV    A,R13
2958 E7D6 aaea4b  LDA    @>EA4B(B)
2959 E7D9 d00e    MOV    A,R14
2960 E7DB b9      POP    A
2961 E7DC 9e0e    CALL   *R14
2962 E7DE e0e5    JMP    $E7C5 ----|---|>
2963             <-----|
2964 E7E0 cae8    DJNZ   B,$E7CA ----
2965 E7E2 8ee809  CALL   $E809
2966 E7E5 e0de    JMP    $E7C5 -----

```

R30=command code

KEYIN attente et saisie d'une touche

```

2968 -----
2969 ESCAPE, UP, DOWN, RETURN
2970 -----
2971 E7E7 b8      PUSH  A
2972 E7E8 3218    MOV   R24,B
2973 E7EA 3a19    SUB   R25,B
2974 E7EC 4a011e  SUB   R1,R30
2975 E7EF 7b001d  SBB  %>00,R29
2976 E7F2 321a    MOV   R26,B
2977 E7F4 3a18    SUB   R24,B
2978 E7F6 c3      INC   B
2979 E7F7 2220    MOV   %>20,A
2980 E7F9 9b1e    STA  *R30 <---
2981 E7FB db1e    DECD  R30      |
2982 E7FD cafa    DJNZ  B,$E7F9 -
2983 E7FF b9      POP   A
2984 E800 c9      POP   B      depilage de 2 octets supplementaires
2985 E801 c9      POP   B      pour retour a la routine precedente !!!!
2986 E802 3218    MOV   R24,B
2987 E804 0a      RETS      ne retourne pas a la routine appelante !
2988 -----
2989 -----
2990 -----
2991 -----
2992 E805 740117  OR    %>01,R23
2993 E808 0a      RETS
2994 -----
2995 -----
2996 -----
2997 -----
2998 E809 4d1a19  CMP   R26,R25
2999 E80C e714    JL    $E822 ----
3000 E80E 9b1e    STA  *R30      |
3001 E810 981c16  MOVD  R28,R22 <-|-----|
3002 E813 8ee8e2  CALL  $E8E2    |
3003 E816 98161c  MOVD  R22,R28  |
3004 E819 8ec83d  CALL  $C83D    |
3005 E81C 2283    MOV   %>83,A   |
3006 E81E 8ec83d  CALL  $C83D    |
3007 E821 0a      RETS      -----|-----|----> retour
3008 <-----|
3009 E822 76011720 BTJO  %>01,R23,$E846 -
3010 E826 9b1e    STA  *R30      |
3011 E828 4d1a19  CMP   R26,R25  |
3012 E82B e3e3    JHS  $E810 ----|-----|
3013 E82D 981c16  MOVD  R28,R22  |
3014 E830 8ee8e2  CALL  $E8E2    |
3015 E833 98161c  MOVD  R22,R28  |
3016 E836 8ec83d  CALL  $C83D    |
3017 E839 d319    INC   R25      |
3018 E83B 4d1918  CMP   R25,R24  |
3019 E83E e303    JHS  $E843 --- |-----|
3020 E840 421918  MOV   R25,R24  |
3021 E843 db1e    DECD  R30 <----|
3022 E845 0a      RETS      -----|-----|----> retour
3023 E846 b8      PUSH  A <-----|
3024 E847 98200e  MOVD  R32,R14   R14=vdp write address pointer for trap
3025 E84A 4a1a0e  SUB   R26,R14   R14=vdp write address pointer for trap
3026 E84D 7b000d  SBB  %>00,R13
3027 E850 980e10  MOVD  R14,R16   R14=vdp write address pointer for trap
3028 E853 d30e    INC   R14       R14=vdp write address pointer for trap
3029 E855 79000d  ADC  %>00,R13
3030 E858 4d1a18  CMP   R26,R24
3031 E85B e302    JHS  $E85F --- |
3032 E85D d318    INC   R24      |
3033 E85F 321a    MOV   R26,B <--
3034 E861 3a19    SUB   R25,B
3035 E863 e2a9    JEQ  $E80E ----
3036 E865 9a0e    LDA  *R14 <--- R14=vdp write address pointer for trap

```

```

3037 E867 9b10      STA    *R16
3038 E869 d30e      INC    R14
3039 E86B 79000d    ADC    %>00,R13
3040 E86E d310      INC    R16
3041 E870 79000f    ADC    %>00,R15
3042 E873 caf0      DJNZ  B,$E865 -
3043 E875 b9        POP    A
3044 E876 9b1e      STA    *R30
3045 E878 8ac0be    LDA    @>C0BE
3046 E87B b8        PUSH  A
3047 E87C 8ee8a6    CALL  $E8A6
3048 E87F 981601    MOVD  R22,R1
3049 E882 8ee8d2    CALL  $E8D2
3050 E885 c9        POP    B
3051 E886 3a00      SUB    R0,B
3052 E888 4a011c    SUB    R1,R28
3053 E88B 8ec858    CALL  $C858
3054 E88E 4d1a19    CMP    R26,R25
3055 E891 e312      JHS    $E8A5 ---
3056 E893 d319      INC    R25
3057 E895 db1e      DECD  R30
3058 E897 2281      MOV    %>81,A
3059 E899 981c16    MOVD  R28,R22
3060 E89C 8ee8e2    CALL  $E8E2
3061 E89F 98161c    MOVD  R22,R28
3062 E8A2 8ec83d    CALL  $C83D
3063 E8A5 0a        RETS  <----
3064
3065 -----
3066
3067 -----
3068 E8A6 8ec858    CALL  $C858
3069 E8A9 8ee8da    CALL  $E8DA
3070 E8AC 980116    MOVD  R1,R22
3071 E8AF 981e14    MOVD  R30,R20
3072 E8B2 3218      MOV    R24,B
3073 E8B4 3a19      SUB    R25,B
3074 E8B6 c3        INC    B
3075 E8B7 9a14      LDA    *R20
3076 E8B9 c8        PUSH  B
3077 E8BA 8ee8e2    CALL  $E8E2
3078 E8BD 8ec85e    CALL  $C85E
3079 E8C0 c9        POP    B
3080 E8C1 db14      DECD  R20
3081 E8C3 caf2      DJNZ  B,$E8B7
3082 E8C5 0a        RETS
3083
3084 -----
3085
3086 -----
3087 E8C6 8ec858    CALL  $C858
3088 E8C9 981c01    MOVD  R28,R1
3089 E8CC 8ee8d2    CALL  $E8D2
3090 E8CF 8cc858    BR    $C858
3091 E8D2 8bc0bd    STA    @>C0BD
3092 E8D5 62        MOV    B,A
3093 E8D6 8bc0be    STA    @>C0BE
3094 E8D9 0a        RETS
3095 E8DA 8ac0be    LDA    @>C0BE
3096 E8DD c0        MOV    A,B
3097 E8DE 8ac0bd    LDA    @>C0BD
3098 E8E1 0a        RETS
3099
3100 -----
3101
3102 -----
3103 E8E2 b8        PUSH  A
3104 E8E3 c8        PUSH  B
3105 E8E4 8ee8da    CALL  $E8DA

```

R14=vdp write address pointer for trap

R30=command code

R30=command code

R30=command code

```

3106 E8E7 980122   MOVD  R1,R34
3107 E8EA d50e     CLR   R14
3108 E8EC c3       INC   B    <-----
3109 E8ED 5d19     CMP   %>19,B
3110 E8EF e308     JHS   $E8F9 -----|
3111 E8F1 aac0a4   LDA   @>C0A4(B) |
3112 E8F4 2618f5   BTJO  %>18,A,$E8EC - |
3113 E8F7 d30e     INC   R14
3114 <-----
3115 E8F9 76ff0e1e BTJO  %>FF,R14,$E91B --
3116 E8FD 8ac0bd   LDA   @>C0BD
3117 E900 2d27     CMP   %>27,A
3118 E902 e717     JL    $E91B ----->
3119 E904 981601   MOVD  R22,R1
3120 E907 8ee8d2   CALL  $E8D2
3121 E90A 2280     MOV   %>80,A
3122 E90C 8ec85e   CALL  $C85E
3123 E90F 8ee8da   CALL  $E8DA
3124 E912 980116   MOVD  R1,R22
3125 E915 982201   MOVD  R34,R1
3126 E918 8ee8d2   CALL  $E8D2
3127 E91B c9       POP   B    <-----
3128 E91C b9       POP   A
3129 E91D 0a       RETS
3130
3131 -----
3132
3133 -----
3134 E91E d318     INC   R24
3135 E920 98201e   MOVD  R32,R30
3136 E923 8ee8c6   CALL  $E8C6
3137 E926 2220     MOV   %>20,A
3138 E928 8ec83d   CALL  $C83D <-----
3139 E92B da18fa   DJNZ  R24,$E928 --
3140 E92E 8ee8c6   CALL  $E8C6
3141 E931 d519     CLR   R25
3142 E933 e070     JMP   $E9A5 ----->|
3143
3144 -----
3145 RIGHT
3146 -----
3147 E935 4d1819   CMP   R24,R25
3148 E938 e70e     JL    $E948 -----
3149 E93A 2220     MOV   %>20,A
3150 E93C 4d1a19   CMP   R26,R25
3151 E93F e703     JL    $E944 ---
3152 E941 8ce80e   BR   $E80E ---|---
3153 E944 9b1e     STA  *R30 <---
3154 E946 d318     INC   R24
3155 E948 4d1a19   CMP   R26,R25 <---
3156 E94B e34c     JHS   $E999 -----
3157 E94D d319     INC   R25
3158 E94F db1e     DECD  R30
3159 E951 e046     JMP   $E999 ----->|
3160
3161 -----
3162 DEL
3163 -----
3164 E953 981e0e   MOVD  R30,R14
3165 E956 980e10   MOVD  R14,R16
3166 E959 db0e     DECD  R14
3167 E95B 321a     MOV   R26,B
3168 E95D 3a19     SUB   R25,B
3169 E95F c3       INC   B
3170 E960 9a0e     LDA  *R14 <---
3171 E962 9b10     STA  *R16
3172 E964 db0e     DECD  R14
3173 E966 db10     DECD  R16
3174 E968 caf6     DJNZ  B,$E960 -

```

R30=command code

R30=command code

```

3175 E96A d310      INC      R16
3176 E96C 79000f    ADC      %>00,R15
3177 E96F 2220      MOV      %>20,A
3178 E971 9b10      STA      *R16
3179 E973 7d0018    CMP      %>00,R24
3180 E976 e22d      JEQ      $E9A5 -----|--
3181 E978 4d1819    CMP      R24,R25
3182 E97B e228      JEQ      $E9A5 -----|->
3183 E97D d218      DEC      R24
3184 E97F 8ee8a6    CALL     $E8A6
3185 E982 2220      MOV      %>20,A
3186 E984 8ec85e    CALL     $C85E
3187 E987 981601    MOVD     R22,R1
3188 E98A 8ee8d2    CALL     $E8D2
3189 E98D 8ec858    CALL     $C858
3190 E990 e013      JMP      $E9A5 -----|->
3191 E992 d219      DEC      R25
3192 E994 d31e      INC      R30
3193 E996 79001d    ADC      %>00,R29
3194 E999 981c16    MOVD     R28,R22 <---
3195 E99C 8ee8e2    CALL     $E8E2
3196 E99F 98161c    MOVD     R22,R28
3197 E9A2 8ec83d    CALL     $C83D
3198
3199 E9A5 73fe17    AND      %>FE,R23 <---
3200 E9A8 0a        RETS
3201
3202 -----
3203 HOME
3204 -----
3205 E9A9 98201e    MOVD     R32,R30
3206 E9AC d519      CLR      R25
3207 E9AE 8ee8c6    CALL     $E8C6
3208 E9B1 e0f2      JMP      $E9A5 ----->|
3209
3210 -----
3211 LEFT
3212 -----
3213 E9B3 7d0019    CMP      %>00,R25
3214 E9B6 e2ed      JEQ      $E9A5 ----->|
3215 E9B8 e0d8      JMP      $E992
3216 E9BA 421a14    MOV      R26,R20
3217 E9BD 4a1914    SUB      R25,R20
3218 E9C0 e2e3      JEQ      $E9A5 ----->|
3219 E9C2 981e0e    MOVD     R30,R14
3220 E9C5 3214      MOV      R20,B
3221 E9C7 8ee5d8    CALL     $E5D8
3222 E9CA e21d      JEQ      $E9E9
3223 E9CC 9a1e      LDA      *R30
3224 E9CE 981c16    MOVD     R28,R22
3225 E9D1 8ee8e2    CALL     $E8E2
3226 E9D4 98161c    MOVD     R22,R28
3227 E9D7 8ec83d    CALL     $C83D
3228 E9DA db1e      DECD     R30
3229 E9DC d319      INC      R25
3230 E9DE 4d1918    CMP      R25,R24
3231 E9E1 e303      JHS      $E9E6
3232 E9E3 421918    MOV      R25,R24
3233 E9E6 da14d9    DJNZ     R20,$E9C2
3234 E9E9 e0ba      JMP      $E9A5 ----->|
3235
3236 -----
3237 TAB
3238 -----
3239 E9EB 8ac0bd    LDA      @>C0BD
3240 E9EE c0        MOV      A,B
3241 E9EF 5808      ADD      %>08,B
3242 E9F1 53f8      AND      %>F8,B
3243 E9F3 3a00      SUB      R0,B

```

```

3244 E9F5 c8      PUSH  B  <-----
3245 E9F6 2281     MOV   %>81,A  |
3246 E9F8 8ee935  CALL  $E935   |
3247 E9FB c9      POP   B      |
3248 E9FC caf7     DJNZ  B,$E9F5 --
3249 E9FE 0a      RETS
3250
3251 -----
3252
3253 -----
3254 E9FF 8ec858   CALL  $C858
3255 EA02 8ee8da   CALL  $E8DA
3256 EA05 980116   MOVD  R1,R22
3257 EA08 3218     MOV   R24,B
3258 EA0A 3a19     SUB   R25,B
3259 EA0C c3       INC   B
3260 EA0D 2220     MOV   %>20,A <--
3261 EA0F c8      PUSH  B      |
3262 EA10 8ec85e   CALL  $C85E   |
3263 EA13 c9      POP   B      |
3264 EA14 caf7     DJNZ  B,$EA0D --
3265 EA16 421918   MOV   R25,R24
3266 EA19 981601   MOVD  R22,R1
3267 EA1C 8ee8d2   CALL  $E8D2
3268 EA1F 8ec858   CALL  $C858
3269 EA22 0a      RETS
3270
3271 -----
3272
3273 -----
3274 EA23 8ec882   CALL  $C882
3275 EA26 e609     JNE   $EA31 ---
3276 EA28 8a0653   LDA   @>0653  |
3277 EA2B 2502     XOR   %>02,A  |
3278 EA2D 8b0653   STA   @>0653 <-|-----
3279 EA30 0a      RETS          |-----|----> retour
3280 EA31 e9       TRAP  22 <-----|
3281 EA32 771002fa BTJZ  %>10,R2,$EA30 -|----> retour
3282 EA36 8a0653   LDA   @>0653  |
3283 EA39 2508     XOR   %>08,A  |
3284 EA3B e0f0     JMP   $EA2D  -----
3285
3286 -----
3287 EA30 0a e9 77 10 02 fa 8a 06 53 25 08 e0 f0 1b 80 82 ..w.....S%.....
3288 EA40 0d 10 01 08 81 83 b3 a2 85 05 09 13 e7 e7 e7 e7 .....
3289 -----
3290
3291 EA4C e7e7 1b= ESCAPE
3292 EA4E e7e7 80= UP
3293 EA50 e7e7 82= DOWN
3294 EA52 e7e7 0d= RETURN
3295 EA54 ea23 10= è
3296 EA56 e805 01= à
3297 EA58 e953 08= DEL
3298 EA5A e935 81= RIGHT
3299 EA5C e9b3 83= LEFT
3300 EA5E e9ba b3=
3301 EA60 e9ba a2=
3302 EA62 e9a9 85= HOME
3303 EA64 e91e 05=
3304 EA66 e9eb 09= TAB
3305 EA68 e9ff 13=
3306
3307 -----
3308
3309 -----
3310 EA6A d816     PUSH  R22
3311 EA6C 8ec894   CALL  $C894
3312 EA6F e603     JNE   $EA74 -----

```



```

3313 EA71 d916 POP R22 |
3314 EA73 0a RETS -----|--> retour
3315 EA74 88ea7b12 MOVD %>EA7B,R18 <-
3316 EA78 8cc852 BR $C852 -----> PRNTST affichage chaine de caracteres
3317 EA7B 0a RETS
3318
3319 -----

```

```

3320 EA70 03 d9 16 0a 88 ea 7b 12 8c c8 52 0a 0d 49 2f 4f .....{...R..I/O
3321 EA80 20 45 52 52 4f 52 00 0a 88 ea 8f 12 8c c8 52 0a ERROR.....R.
3322 EA90 0d 49 2f 4f 20 45 52 52 4f 52 00 8a c0 fb 8e c8 .I/O ERROR.....
3323 EAA0 3d 8a c0 fa 8e c8 3d d9 ff ff e6 b8 53 4f 52 43 =.....=.....SORC
3324 EAB0 04 e6 84 45 53 4f 4c 43 05 c8 9d 50 55 4b 43 41 ...ESOLC...PUKCA
3325 EAC0 42 06 c8 9a 54 41 4d 52 4f 46 06 e6 7b 47 4e 41 B...TAMROF..{GNA
3326 EAD0 4c 54 45 53 07 e7 3d 4d 41 52 43 04 e6 fd 4d 4f LTES..=MARC...MO
3327 EAE0 52 03 c8 a0 52 49 44 03 e4 96 54 49 58 45 04 e6 R...RID...TIXE..
3328 EAF0 61 3a 42 02 e6 67 3a 41 02 c8 7f 53 4c 43 03 05 a:B..g:A..SLC..
3329 EB00 a5 5a 55 aa 00 ff 80 00 00 00 00 00 00 00 00 .ZU.....
3330 EB10 ff ff ff 07 07 07 0f 0f 3f 1f 3f ff 7f 07 7f 0f .....??.?.?.
3331 EB20 7f 7f 7f 3f 1f ff 03 03 7f 07 00 00 00 00 00 00 [][]?....[].....
3332 EB30 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3333 EB40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3334 EB50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3335 EB60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3336 EB70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3337 EB80 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3338 EB90 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3339 EBA0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
3340 EBB0 ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff .....
3341 EBC0 ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff .....
3342 EBD0 ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff .....
3343 EBEO ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff .....
3344 EBF0 ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff .....
3345 -----
3346

```