

6 B

96
12
108

COMMAND==>RC

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 0 DRIVE A DENS=40(0/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	FF	00	00	00	03	00	20	20	20	20	20	20	20	20	20	20	
10	8F	00	04	00	04	00	72	65	61	64	6D	65	20	20	20	20	README
20	47	00	05	00	14	00	72	65	61	64	74	78	74	20	20	20	G.....READTXT
30	12	00	15	00	3B	00	75	74	69	6C	69	74	79	20	20	20	UTILITY
40	FE	00	3C	00	3D	00	75	74	69	6C	63	6F	64	65	31	20	...<=.UTILCODE!
50	08	00	3E	00	3F	00	62	6F	6F	74	73	74	72	20	20	20	...>?.BOOTSTR
60	FF	00	CF	02	FF	FF	8F	FF	FF	F4	09	A8	10	4B	F4		K.
70	00	2A	32	35	36	0E	00	00	00	01	00	2D	32	35	36	0E	..*256.....-256.

COMMAND==>RN

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 1 DRIVE A DENS=40(0/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	00	00	00	01	00	2D	36	30	30	0E	00	00	58	02	00	3A	-600...X..:
10	EA	6D	61	78	74	3D	36	0D	00	14	12	00	FD	6D	65	6D	..MAXT=6.....MEM
20	73	74	61	72	74	2D	31	0E	00	00	01	00	00	0D	00	1E	START-1.....
30	37	00	F1	62	75	66	66	73	74	61	72	74	3D	BE	32	33	7..BUFFSTART=.23
40	37	33	30	0E	00	00	B2	5C	00	2B	32	35	36	0E	00	00	730.....\..+256...
50	00	01	00	2A	BE	32	33	37	33	31	0E	00	00	B3	5C	00	...*.23731.....\.
60	2B	31	0E	00	00	01	00	00	0D	00	28	27	00	ED	38	36	+1.....('...86
70	35	30	0E	00	00	CA	21	00	3A	F1	62	6F	6F	74	73	74	50.....!...BOOTST

COMMAND==>+Q LIST DEVICE OFF

ROM - 26 00 3C 00 84 00 72 6F 6D 20

58FF

ROM
1000/1E40
Futh FF dha 1E41
27F

RC: 00000000, 3.F9
per leggere le ROM che contengono 10000 (Togliendo l'HEADER)

1000/1E39 proprio

1E3A/2707 Tutti FFFF etc

2708/2866 Proprio. 1/5000

2867/2948 Messaggi

2949/29A9 Codici esecutivi ?

29AA/2FFF Tutti FF

3000/3020 Codici ?

3780/382C Codici

3E80/3FFF } 1° Settore disco (?)

5000 / --- Zerri, con valori finali e le

D1000 103FF

1000: F3 31 02 40 C3 37 17 FF C3 10 05 E1 F5 C3 67 00 .1.0.7.....G.
1010: E3 FD E1 D5 5E 23 18 3B FD CB 01 7E C0 CF 47 FF1#.....G.
1020: D7 20 00 C0 FF FF FF FF E1 4E 06 00 E5 C3 91 05N.....
1030: E1 4E 23 E5 C3 D7 04 FF FD E5 D7 38 00 FD E1 C0 .N#.....8.....
1040: DD 86 03 2F 32 02 38 C0 C5 D5 11 4A 00 D5 06 00 .../2.8.....J.....
1050: F7 06 E0 56 23 E3 EB E5 21 08 17 E3 FD E5 E3 FD ...V#...!.....
1060: 21 3A 5C C3 00 07 E0 D7 7B 00 23 E3 E5 D5 06 FF !:\.....[.#.....
1070: F7 00 D1 C1 E0 FD CB 02 0E C5 2A 51 5C E5 DD E1*Q\....
1080: DD 7E 04 F6 20 EB 37 ED 52 45 F7 08 F1 CD 74 007.RE....T.
1090: E1 E1 D0 F5 FD CB 37 6E 20 04 F1 C3 00 07 F1 307N0
10A0: FA FE 0D 28 08 D7 85 0F CD 04 05 38 0F CD 04 05 ...(.8.....
10B0: 25 10 EF 00 34 F1 27 AE 14 7A 38 18 08 DD 2A 51 %...4.'...Z8...*Q
10C0: 5C CD 66 06 E1 E1 18 D3 2A 4F 5C 01 10 00 00 ED \.F.....*Q\.....
10D0: 4B 61 5C ED 42 20 28 0B 0B 0B 0A D6 F7 20 20 3C KAN.B (..... <
10E0: 06 06 CD 51 0C 18 18 FE 1B 38 02 CF 31 32 3A 5C ...Q.....8..12:\
10F0: 2A 5D 5C 22 5F 5C FD CB 00 7E 32 3A 5C 20 00 CD *]\"+\....2:\ ..
1100: 43 05 ED 7B 3D 5C 18 03 FD CB 0D 7E 20 F1 ED 5B C...[=\.....[
1110: 61 5C E5 A7 ED 52 E1 30 E6 ED 5B 59 5C A7 ED 52 A\...R.0..[Y\..R
1120: 38 00 D7 FB 10 2A 5D 5C 2B 18 00 2A 45 5C D7 6E 8.....*]\+...*E\..N
1130: 10 23 23 23 FD 56 0D 1E 00 D7 8B 10 DF 20 03 D7 .###.V..... ..
1140: A7 11 D7 BF 16 E7 06 FF F7 02 E5 E7 C0 FE 2A C2*.....
1150: 4E 03 DF 28 06 01 22 00 D7 30 00 D5 E7 CD 5C 04 N...(. "...0.....\
1160: CD 78 05 52 06 4C 36 C0 D5 CD 78 05 0E 06 BD DD .X.R.L6...X.....
1170: 21 25 00 DD 10 3E C3 CD 6A 02 DD 23 3E 1F CD 6A !%...>...J..#>...J
1180: 02 E1 A7 ED 42 EB DD E1 CD 0F 05 E5 CD 39 04 E1B.....0...
1190: DD 46 0C DD 4E 0B C5 03 03 03 03 03 03 03 E5 22 .F..N....."
11A0: 5B 5C D7 2B 2D 3A 74 5C A7 F5 3E 01 28 01 3C CD [\..+-:T\..>.(.<.
11B0: ED 05 DD E5 E1 D7 15 16 F1 E1 C1 DD E5 ED 5B 65[E
11C0: 5C ED 52 10 30 03 2A 5B 5C E5 2A 61 5C A7 20 17 \.R.0.*[\.*A\.. .
11D0: C5 01 01 00 CD 7A 02 01 0A 00 00 0E 06 CD 7A 02Z.....Z.
11E0: C1 E1 CD 7A 02 18 7B 01 01 00 CD BC 02 28 02 CF ...Z..[.....(.
11F0: 35 2B 7E 01 11 00 00 77 F5 E5 0E 0B 00 0E 06 CD 5+.....W.....
1200: 07 02 DD E1 F1 FE 03 28 00 3A 74 5C 3D 28 1C 3D(. :T\-(.=
1210: 20 3C CD 78 05 CB 07 3D 2B 36 E1 2B 2B 2B 36 C0 <.X...+6..++6.
1220: 2B 36 3C E1 CD 0F 05 28 12 CF 32 CD 78 05 08 08 +6<.....(..2.X...
1230: AC 21 68 00 10 36 C0 E1 CD 0F 05 DD E5 E1 42 4B .!H..6.....BK
1240: 30 05 CD 07 02 18 1B CD BC 02 28 16 CF 34 CD 78 0.....(..4.X
1250: 05 B6 08 0E E1 CD 0F 05 42 4B E5 CD 97 02 E1 D7BK.....
1260: CE 08 DD E1 CD 70 06 C3 AF 03 DD 77 D7 DD 77 EBP.....W...W.
1270: DD 77 37 DD 77 58 DD 77 6C C0 D0 DD 2A 51 5C DD .W7.VX.WL...*\..
1280: 7E 04 F6 20 06 00 F7 08 D0 78 B1 C8 7E 23 0B D0X.#.....
1290: E5 CD 74 00 E1 18 F1 D0 DD 2A 51 5C DD 7E 04 F6 ..T.....*Q\...
12A0: 20 06 02 F7 08 D0 78 B1 C8 D0 E5 CD 74 00 E1 30X.....T..0
12B0: 06 D0 77 23 0B 18 EF 28 F1 D7 E4 15 D0 DD 2A 51 ..W#....(.....*Q
12C0: 5C DD 7E 04 F6 20 06 02 F7 08 D0 78 B1 C8 D0 E5 \....X.....
12D0: CD 74 00 E1 30 07 D0 BE C0 23 0B 18 EE 28 F0 D7 .T..0.....#.....(.
12E0: E4 15 CD 5C 04 FE CC 20 65 DF 28 0A CD DD 06 3E ...\. ...E.(...>
12F0: 02 CD ED 05 DD E5 E7 CD 5C 04 CD 39 04 DD E1 DD \..0.....
1300: E5 CD 66 06 3E 01 CD ED 05 E1 E5 DD E5 DD E5 D7 ..F..>.....
1310: 15 16 D7 E6 15 30 12 2A 51 5C E3 F5 D7 15 16 F10.*Q\.....
1320: D7 F2 15 2A 51 5C E3 18 E6 20 0E 3E BF DB FE 0F ...*Q\....>.....
1330: 38 E0 3E FE DB FE 0F 38 D0 E1 DD E1 CD 70 06 DD 8.>.....8.....P..
1340: E1 CD 70 06 18 60 D7 82 1C CD 4F 04 28 03 D7 8A ..P..I.....0.(...
1350: 1C CD 5C 04 06 01 FE DF 20 0F E7 D7 48 20 28 11 ..\.....H (.
1360: C5 D7 82 1C CD 39 04 18 0F 06 03 FE BF 20 02 E70.....
1370: 05 CD 39 04 C5 CD DD 06 EF 05 C5 02 38 CD 78 05 ..9.....8.X.
1380: 36 17 21 2B 2B 36 C0 CD 0F 05 28 02 CF 2A E5 EF 6.!++6.....(.*...
1390: 04 E5 38 E1 F1 E5 CD ED 05 E1 01 18 5C A7 ED 42 ..8.....\..B
13A0: 00 38 04 DD CB 04 AE EB CD D1 06 EB 73 23 72 3E .8.....\$#R>
13B0: FE D7 01 16 FD 36 00 FF CD 04 05 76 1B FE 23 206.....V..#
13C0: 8D E7 D7 48 20 20 08 CD 39 04 CD B1 06 18 E0 D7 ...H ...9.....
13D0: 82 1C CD 39 04 D7 1E 17 78 B1 28 D3 DD 2A 4F 5C ...9.....X.(...*Q\
13E0: DD 00 DD 2B E5 CD 75 06 C3 30 17 DF 28 07 F5 3E ...+...U..0..(>
13F0: 02 D7 01 16 F1 D7 70 20 D4 4F 04 06 00 18 06 06P .0.....

#

#


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1400: 02 18 02 06 04 C5 CD 5C 04 CD 39 04 D7 F1 2B E1 ...D...T...#
1410: D5 C5 1A 44 F7 0A C1 D1 CD 74 00 18 02 FE 23 20 ...0...>...2...2.
1420: 0E E7 CD 39 04 3E 07 D7 9B 22 32 8D 5C AF 32 8E ...2...K...:(.
1430: 5C 32 01 5C D7 6B 0D 18 E2 D7 18 00 FE 3A 28 04 ...6...
1440: FE 0D 20 DB DF C0 FD 36 00 FF CD 04 05 F4 1B D7 ...;(...#
1450: 18 00 FE 3B 28 03 FE 2C C0 E7 BF C0 FE 23 20 0C ...5...+...3.
1460: DF 28 03 D7 00 35 E7 D7 82 1C 18 2B D7 FB 24 FD ...V(...5...8
1470: CB 01 76 28 0D DF 28 12 AF D7 D0 35 EF 04 01 38 ...0...0...
1480: 18 08 CD 4F 04 20 0D D7 82 1C CD 4F 04 20 08 D7 ...0...0...
1490: 8C 1C 18 06 D7 E6 1C D7 E6 1C DF 28 05 06 02 CD ...0...0...
14A0: 50 00 D7 18 00 C9 01 03 00 D7 30 00 D5 D7 B6 2A P...0...*
14B0: EF 08 C0 02 C1 02 01 38 D7 F1 2B 0B 78 B1 28 02 ...8...+...X.(.
14C0: CF 29 1A CB EF E1 77 E5 D7 99 1E E1 23 71 23 70 ...W...#Q#P
14D0: EF 06 E0 E1 17 38 C9 21 01 30 CB 4E 21 FF 1F 28 ...8...!...N!...(
14E0: 02 23 23 CD F5 04 4F 7E 23 23 A7 28 06 B9 28 03 ...0...0...
14F0: 23 18 F4 79 48 CD FF 04 0C C8 C5 06 00 09 C1 56 ...YH...V
1500: 2B 5E EB C9 E1 5E 23 56 ED 7B 3D 5C D5 C3 00 07 ...+...#V.[=\...
1510: E1 7E FD 77 00 CD 43 05 ED 7B 3D 5C E1 E5 3E 13 ...W...C...[=\...>.
1520: BC 38 1D CD 78 05 03 13 41 CD 0F 05 3D 06 FF F7 ...8...X...A...=...
1530: 04 7E E6 7F D7 10 00 CB 7E 23 28 F5 21 49 13 E3 ...#(!I...
1540: C3 00 07 D7 C5 16 FD CB 02 0E 3A 3A 5C FE 57 C8 ...N.W.
1550: 2A 4F 5C 01 14 00 09 E5 DD E1 ED 5B 53 5C 1B A7 ...0\...[S\...
1560: ED 52 C8 D2 85 0C 19 DD 4E 05 DD 46 06 DD CB 04 ...R...N...F...
1570: 6E 28 E3 CD 75 06 18 D8 E1 5E 23 56 23 4E 23 06 N(...U...#V#N#.
1580: 00 E5 C5 D5 CD BD 05 E1 D5 D7 C3 33 E1 EB 2B C1 ...3...+...
1590: C9 CD BD 05 E1 D5 0B 2B ED A0 23 ED B0 D1 E5 E5 ...+...#...
15A0: 2A 3D 5C 2B 36 C9 23 E3 D5 C5 D1 C1 C5 D7 1D 1C ...=\+6.#...
15B0: C1 E3 D5 F5 50 59 CD DC 05 F1 D1 E1 C9 D7 05 1F ...PY...
15C0: 21 00 00 39 54 5D A7 ED 42 F9 C5 E5 2A 3D 5C ED ...!...9T]...B...*=\.
15D0: 52 44 4D E1 EB ED B0 C1 2A 3D 5C C9 EB 1B E5 37 RDM...*=\.7
15E0: ED 72 2B 44 4D E1 2B ED B8 13 EB F9 C9 F5 EF 05 ...R+DM...+...
15F0: C1 02 38 D7 F1 2B C5 D5 1A 06 04 F7 08 D1 C1 F1 ...8...+...
1600: E9 D5 C5 EB 23 4E 23 46 EB 57 7C CD 22 06 C1 0B ...#N#F.W..."...
1610: 0B 0B 38 0B 7D C5 CD 22 06 C1 30 03 D7 65 17 7A ...8..."...0...E.Z
1620: D1 C9 A7 F2 28 06 2F 0B B9 D8 78 A7 C8 37 C9 C5 ...(/...X...7...
1630: F5 ED 53 5F 5C 2A 53 5C 2B D7 55 16 23 E5 DD E1 ...S-\*S\+...U.#...
1640: F1 CD 52 06 54 5D 2A 5F 5C ED A0 EB C1 CD 61 06 ...R.T]...A...
1650: EB C9 DD E5 E1 CD 58 06 01 08 00 0F 38 03 01 C4 ...X...8...
1660: 15 71 23 70 23 C9 06 08 DD 7F 04 F6 20 F7 08 E9 ...Q#P#...
1670: 06 06 CD 68 06 CD D1 06 01 14 00 A7 ED 42 D8 00 ...H...B...
1680: E5 DD E5 E1 DD 4E 05 DD 46 06 C5 D7 E8 19 CD 78 ...N...F...X
1690: 05 63 16 23 62 6B 36 42 23 36 4B 23 23 23 36 16 ...C.#BK6B#6K##6.
16A0: 23 23 23 36 10 C1 78 2F 47 79 2F 4F 03 E1 C3 0F ...##6...X/GY/O...
16B0: 05 2A 4F 5C 11 14 00 19 EB 2A 53 5C 2B D7 E5 19 ...*0\...*S\+...
16C0: CD 78 05 7C 12 0C CD 0F 05 AF 06 18 12 13 10 FC ...X...
16D0: C9 DD E5 E1 ED 4B 4F 5C A7 ED 42 23 C9 EF 05 A1 ...KO\...B#...
16E0: 1B 38 C9 FF FF FF FF FF FF FF FF FF FF FF FF ...8...
16F0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ...
1700: C9 C0 04 C0 04 0B 07 25 07 DD 06 21 00 00 CD 01 ...%...!...
1710: 06 38 13 DD 2A 4F 5C 1A FE 70 D8 01 05 00 20 03 ...8...*0\...P...
1720: 01 0F 00 DD 09 C9 D7 E7 34 4B 07 6F 07 3D 07 25 ...4K.0?=%
1730: 07 DD 06 67 07 75 07 3D 07 25 07 DD 06 21 00 00 ...G.U.=.%...!..
1740: CD 01 06 38 E1 01 07 00 C3 2F 06 FE 0D 20 07 CD ...8.../...
1750: 67 07 3E 0A 18 11 FE 20 D8 FE 80 38 0A D6 A5 38 G.>...8!...8
1760: 04 D7 10 0C C9 3E 3F 06 00 67 3E FF C3 51 0C CD ...>?..G>..Q..
1770: 75 07 CB BF C9 06 02 18 F0 97 07 A2 07 83 07 25 U...%
1780: 07 AB 07 21 00 0F CD 01 06 30 03 D7 0E 16 01 08 ...!...0...
1790: 00 CD 2F 06 ED A0 C9 F5 CD B1 07 F1 D9 D7 F2 15 .../...
17A0: D9 C9 CD B1 07 D9 D7 E6 15 D9 C9 CD B1 07 C3 66 ...F
17B0: 06 06 0F DD 7E 07 D7 01 16 DD 2A 51 5C DD 7E 04 ...*Q\...
17C0: F6 20 FE 23 C0 10 EC CF 48 02 08 48 08 B3 08 4D ...#...H...H...M
17D0: 08 0D 09 F5 DD 7E 1E DD B6 1F 28 27 F1 DD E5 E1 ...('...
17E0: 01 07 00 09 CB 6E 28 09 32 0F 5C 7E E6 0F 77 18 ...N(.2...\..W.
17F0: 1F CB 76 28 06 32 0E 5C CB EE C9 FE 17 20 03 CB ...V(.2...\...

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D1800 1BFF

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1800: F6 C9 F5 CD CA 0B D2 29 02 F1 12 DD CB 07 FE C9 .....).
1810: DD 4E 08 DD 46 09 D7 2B 2D DD 4E 1E DD 46 1F D7 .N..F..+-.N..F..
1820: 2B 2D ED 4B 0E 5C D7 2B 2D EF 06 04 01 32 38 D7 +-..K..\..+-.28.
1830: 09 1E DD 6E 10 DD 66 11 09 44 4D CD 1A 0C D7 99 ...N..F..DM.....
1840: 1E DD 71 0A DD 70 0B C9 CD CA 0B 1A C9 DD CB 00 ..Q..P.....
1850: 5E C8 DD 5E 0C DD 56 0D DD 6E 0E DD 66 0F DD 4E ↑..↑..V..N..F..N
1860: 0A DD 46 0B 0B A7 ED 42 20 0B DD 6E 12 DD 66 13 ..F.....B ..N..F.
1870: A7 ED 52 28 3B DD E5 D5 C5 DD E5 01 03 00 D7 30 ..R(;.....0
1880: 00 36 00 2B DD 7E 07 E6 0F 77 3E 03 CD 29 0A E1 .6..+.....W>...).
1890: 11 14 00 19 EB 01 0A 00 CD 73 0A 30 2F E1 22 9C .....S.0/..".
18A0: 5C E1 22 A0 5C 2A 0E 5C CD 8D 0B CD 70 06 DD E1 \..".\*..\....P...
18B0: C3 6A 0C 21 F6 F1 F5 3E 03 CD 34 0A CD 73 0A E1 .J.!...>..4..S..
18C0: 30 06 3E 02 CB 4C 20 0B CB 44 20 02 CF 30 CD B7 0.>..L ..D ..0..
18D0: 0A 3E 01 F5 CD 6A 0C F1 CD 52 06 11 AB 5C CD F3 .>....J...R...\..
18E0: 08 2A 9E 5C 2B EB 72 2B 73 2B 54 5D 2B 2B ED A8 .*.\+.R+S+T1++..
18F0: ED A8 C9 DD E5 E1 01 1F 00 09 AF 77 2B 77 2B EB .....U+W+.
1900: 0E 10 ED B8 DD 7E 0F E6 0F DD 77 0F C9 DD 4E 0E .....W...N.
1910: DD 46 0F 03 D7 2B 2D DD 4E 0A DD 46 0B D7 2B 2D .F...+-..N..F..+-
1920: DD 4E 08 DD 46 09 D7 2B 2D DD 4E 12 DD 46 13 D7 .N..F..+-..N..F..
1930: 2B 2D DD 4E 0C DD 46 0D D7 2B 2D EF 0E 03 04 01 +-..N..F..+-.
1940: 03 0F 31 36 30 00 02 30 38 C9 50 09 B9 09 E3 09 ..160..08.P.....
1950: 3E 02 CD 29 0A 21 00 00 CD 8A 09 CD AE 09 CD 8A >..).!.....
1960: 09 30 FB 44 4D D7 2B 2D DD 4E 08 DD 46 09 D7 2B .0.DM..+-..N..F..+
1970: 2D EF 09 04 34 3B 00 05 3A 38 CD AE 09 DD E5 D7 -...4;...8.....
1980: E3 2D DD E1 CD AE 09 C3 70 06 E5 CD 7C 0B E1 ED .-.....P.....
1990: 5B 9E 5C 19 ED 5B A0 5C 7A A3 3C 37 C8 ED 52 11 [.\\..[.\\Z.<7..R.
19A0: A2 5C 1A A7 C8 06 0A CD B0 09 13 1A 10 F9 3E 0D .\\.....>.
19B0: DD E5 D7 F2 15 DD E1 A7 C9 3E 03 21 F6 F1 CD 2C .....>.!...
19C0: 0A CD 73 0A D2 CC 08 2A 0E 5C E5 23 E5 CD 7C 0B ..S.....*\..#...
19D0: 2A A0 5C 7C A5 3C E1 20 F2 22 0E 5C E1 CD 8D 0B *.\.<..".\....
19E0: C3 70 06 21 F6 F1 CD 01 06 DA 39 0A 13 1A 13 13 .P.!.....0.....
19F0: CD 6C 0B F5 06 04 CD 51 0C 0B ED 43 9C 5C ED 43 .L.....Q...C.\.C
1A00: AC 5C 22 AE 5C 21 03 00 22 A0 5C 6C 22 9E 5C 2B .\\..\\!..".\\L".\\+
1A10: 22 B0 5C F1 06 00 21 00 00 11 9C 5C C3 51 0C D3 ".\\....!.....\\Q..
1A20: 07 48 08 29 0A 6A 0C 0D 09 21 00 F1 CD 34 0A DD .H.)..J....!...4..
1A30: 36 04 EF C9 CD 01 06 30 02 CF 2B C5 F5 D5 EB 23 6.....0..+.....#
1A40: 7E 06 06 CD 51 0C 21 20 00 09 D1 F1 C5 44 4D CD ...Q.! .....DM.
1A50: 2F 06 ED A0 E3 EB 73 23 72 AF 23 77 23 77 23 77 /.....S#R.#V#V#W
1A60: 23 77 E5 CD 3E 0C E1 01 22 00 09 EB CD F3 08 D1 #W...>....".
1A70: 13 C1 C9 D5 C5 DD 36 1E 10 21 01 00 22 0E 5C CD .....6..!..."\\.
1A80: 10 08 CD 7C 0B FD 34 D4 2A A0 5C 7C A5 3C C1 D1 .....4.*.\.<..
1A90: C8 D5 C5 21 A2 5C 1A ED A1 20 E7 13 EA 96 0A 3E ...!.\\....>
1AA0: 20 EB 21 AC 5C 37 ED 52 38 07 EB ED A1 20 E7 18 .!.\\7.R8.....
1AB0: F0 C1 D1 FD 35 D4 C9 2A 0E 5C E5 D5 C5 CD 10 08 .....5.*.\.....
1AC0: CD 7C 0B FD 36 D4 00 CD 10 08 CD 7C 0B 01 00 00 ...6.....
1AD0: C5 0B 2A A0 5C 7C A5 3C 28 1E E5 03 C5 CD 7C 0B .*.\.<.....
1AE0: C1 2A 9E 5C D1 A7 ED 52 D1 D5 EB A7 ED 52 30 E2 .*.\...R.....R0.
1AF0: E1 D5 ED 43 0E 5C 18 DA C1 0B D7 2B 2D DD 4E 08 ...C.\.....+-..N.
1B00: DD 46 09 D7 2B 2D EF 22 C0 01 E1 37 00 0C A2 04 .F..+-.."...7....
1B10: 3A 31 30 00 13 E0 04 33 08 04 E1 03 36 00 09 E1 :10....3....6....
1B20: A1 03 E0 32 38 A7 C9 38 30 02 CF 2E CD 10 08 CD ...28..80.....
1B30: 7C 0B 2A A0 5C 23 22 9E 5C E5 D7 99 1E E1 09 22 .*.\#"..\....."
1B40: A0 5C D7 99 1E ED 43 9C 5C C1 D1 CD 6C 0B 01 10 .\\....C.\...L...
1B50: 00 D7 30 00 21 9C 5C ED B0 FD 34 D4 E1 D5 CD 8D ..0.!.\...4.....
1B60: 0B E1 2B 01 10 00 11 AB 5C ED B8 C9 C5 21 AC 5C ..+.....\\....!.\
1B70: 06 0A 2B 36 20 10 FB C1 EB ED B0 C9 21 9C 5C 06 ..+6 .....!.\.
1B80: 10 C5 E5 CD C4 0B E1 77 23 C1 10 F5 C9 E5 ED 5B .....W#.....[
1B90: 0E 5C A7 ED 52 30 03 FD 35 D4 CD 10 08 21 9C 5C .\\..R0..5....!.\
1BA0: 06 10 C5 E5 CD C4 0B E1 46 77 23 78 12 DD CB 07 .....FW#X....
1BB0: FE C1 10 EE 2A 0E 5C D1 A7 ED 52 C8 D5 30 D8 FD .....*\...R..0..
1BC0: 34 D4 18 D9 CD 48 08 D8 CF 2E DD 5E 0A DD 56 0B 4....H.....↑..V.
1BD0: DD 4E 0C DD 46 0D DD 6E 12 DD 66 13 A7 ED 42 3F .N..F..N..F...B?
1BE0: D0 20 0B DD 6E 0E DD 66 0F A7 ED 52 3F D0 D5 DD . ..N..F...R?...
1BF0: 6E 08 DD 66 09 37 ED 52 30 09 03 CD 1A 0C 11 00 N..F..7.R0.....

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L1708,171E

1708 NOP
1709 DEC HL
170A EX SP,HL
170B PUSH AF
170C PUSH DE
170D PUSH HL
170E LD DE,A3EA
1711 ADD HL,DE
1712 JR NC,06
1714 LD DE,FF00
1717 ADD HL,DE
1718 JR NC,05
171A POP HL
171B POP DE
171C POP AF
171D EX SP,HL
171E RET
171F

#

04D7 LD HL,3001
04DA BIT 1,(HL)
04DC LD HL,1FFF
04DF JR Z,02
04E1 INC HL
04E2 INC HL
04E3 CALL 04F5
04E6 LD C,A
04E7 LD A,(HL)
04E8 INC HL
04E9 INC HL
04EA AND A
04EB JR Z,06
04ED CP C
04EE JR Z,03
04F0 INC HL
04F1 JR F4
04F3 LD A,C
04F4 LD C,B
04F5 CALL 04FF
04F8 INC C
04F9 RET Z
04FA PUSH BC
04FB LD B,00
04FD ADD HL,BC
04FE POP BC
04FF LD D,(HL)
0500 DEC HL
0501 LD E,(HL)
0502 EX DE,HL
0503 RET
0504

#


```

30 OPEN #5 "m"; 1; readText IN
31 LET b$ = ""
32 FOR A = 1 TO 20000
33   POKE 23692, 255
34   LET A$ = INKEY$ #5
35   PRINT A$; : LET b$ = b$ + A$
36   NEXT A
37   CLOSE #5
38   GOTO 10
9907 SAVE "TextCopy" LINE 10
9908 US: PRINT AT 10,5; "RIAVOLEI IN NASTRO" TAB 7; "E PULSI (ENTER)":
                                     PAUSE#
9999 CLS: PRINT AT 10,40; "VERIFICA"; VERIFY "TextCopy": GOTO 10

```

- 1) Leggi il file in b\$
- 2) Stampa b\$ sulla schermata
- 3) Salva il file in c\$

with code 2

SPECTRADS DISCO "HOT"

TK ϕ SEC ϕ to 39(?)

~~1~~

~~2~~

3 ?

SEC

2
14(?)

READ HEX 47 $\phi\phi$

05 $\phi\phi$
14 $\phi\phi$

RET TXT 12 $\phi\phi$ 15 $\phi\phi$ 3B $\phi\phi$

8F	$\phi\phi$	$\phi\phi$	$\phi\phi$	$\phi\phi$
47	00	65	00	14

→ READ HEX
TXT

COMANDI INVIATI DURANTE DOFORMAT (CARICAT' IN A, RUNDI CALL DSKCMD)

F4 WRITE TRACK WITH DELAY

4E

F4

FF → VERSO DF

[(0113) → DA TRACCIA
HL = 989A]

90

D ϕ → ^{PORT} D ϕ COMANDI (R000E INTERRUPT)

1

THIS VERSION OF THE DISC OPERATING SYSTEM HAS A NUMBER OF EXTENSIONS WHICH IMPROVE ITS COMPATIBILITY WITH THE MICRO- DRIVE SYSTEM. THESE EXTENSIONS ARE DESCRIBED BELOW.

FOR LOAD* AND SAVE* ALL OF THE USUAL CASSETTE/MICRODRIVE OPTIONS ARE NOW AVAILABLE.

WHEN USING OPEN# WITH THE OUT EXTENSION A MAXIMUM LENGTH CAN BE SPECIFIED.

FOR EXAMPLE

OPEN# 4;"M";1;"OUTFILE" OUT 256

OPENS A FILE WITH A MAXIMUM LENGTH OF 256 BYTES. THE CORRECT LENGTH IS WRITTEN WHEN THE STREAM IS CLOSED USING THE CLOSE# COMMAND. IF NO LENGTH IS SPECIFIED WHEN A FILE IS OPENED IT IS ALLOCATED ONE HALF OF THE LARGEST FREE SPACE REMAINING ON THE DISC. THIS MEANS THAT IF A PROGRAMME FAILS AND THE STREAM IS NOT CORRECTLY CLOSED HALF OF THE LARGEST AVAILABLE DISC SPACE WILL BE USED UP.

A CLEAR # COMMAND HAS BEEN IMPLEMENTED. THIS CAN BE USED TO RESET A STREAM AND MAKE IT AVAILABLE AGAIN. IT IS USEFUL WHEN A FAILURE OCCURS AND STREAMS CANNOT BE CLOSED CORRECTLY USING CLOSE#. FOR EXAMPLE

CLEAR #4

RESETS STREAM FOUR, WHILE

CLEAR #

RESETS ALL STREAMS.

MERGE *(<FILENAME>) AND VERIFY *(<FILENAME>) ARE NOW AVAILABLE. THESE MERGE AND VERIFY FILES ON THE DISC OPERATING SYSTEM IN THE SAME WAY AS THE CORRESPONDING CASSETTE COMMANDS.

THE MOVE COMMAND CAN NOW BE USED TO TRANSFER INFORMATION FROM CHANNEL TO CHANNEL, FROM STREAM TO CHANNEL AND FROM CHANNEL TO STREAM.

MOVE "M";1;"TEXT" TO "S"

WHICH TRANSFERS THE CONTENTS OF THE FILE 'TEXT' ON DRIVE 1 TO THE SCREEN.

MOVE "K" TO "M";1;"INFILE"

TRANSFERS CHARACTERS FROM THE KEYBOARD TO THE FILE 'INFILE' ON DRIVE 1. IN THIS CASE (AND ON OTHER SLOW CHANNELS) AN END-OF -FILE IS CAUSED BY PRESSING SHIFT AND ENTER TOGETHER.

THE CAT #(<STREAM>);(<DRIVE>) COMMAND IS NOW AVAILABLE AND CATALOGUES THE DISC IN THE SPECIFIED DRIVE TO THE GIVEN STREAM. FOR EXAMPLE

THE FORMAT <CHANNEL> COMMAND IS AVAILABLE. FOR THE DISC SYSTEM THIS COMMAND REWRITES THE CATALOGUE FILE ON A PREVIOUSLY INITIALISED DISC. IF USED ANY INFORMATION ALREADY ON THE DISC WILL BE LOST. USE WITH CARE!!

TWO EXTRA CHANNELS HAVE BEEN ADDED.

THE CHANNEL "CAT";<DRIVE>IN/OUT OPENS THE DISC CATALOGUE FOR INPUT OR OUTPUT. CARE MUST BE TAKEN IF WRITING TO THE CATALOGUE FILE. IF IT IS CORRUPTED THEN FILES ON THE DISC WILL BE LOST.

THE CHANNEL "T" IS USED TO OUTPUT TEXT TO THE PARALLEL PRINTER PORT. THE CHANNEL IGNORES CODES 0 TO 31 EXCEPT FOR CARRIAGE RETURN (13) WHICH CAUSES A CARRIAGE-RETURN/LINE-FEED PAIR TO BE SENT. CODES GREATER THAN 127 WHICH REPRESENT TOKENS ARE EXPANDED WHILE GRAPHICS CHARACTERS ARE PRINTED AS ?. THIS CONTRASTS WITH THE "B" CHANNEL WHICH PASSES ALL CODES TO THE PARALLEL PRINTER PORT WITHOUT MODIFICATION.

IN ADDITION THE "M" CHANNEL IS TAKEN AS THE DEFAULT AND SO, FOR EXAMPLE, THE COMMAND

LOAD*1;"UTILITY"

IS EQUIVALENT TO

LOAD*"M";1;"UTILITY".

A NUMBER OF USEFUL CALLS ARE:

USR 8 - RETURNS THE VERSION NUMBER.

USR 14070 - RESETS THE SYSTEM AS ON POWER UP.

USR 432 - RETURNS THE NUMBER OF BYTES REMAINING IN THE CURRENT STREAM.
FOR EXAMPLE

PRINT #4;<.....> OR

INPUT #4;<.....>

LEAVES FOUR AS THE CURRENT STREAM. THIS CALL RETURNS -1 IF THE STREAM IS OF UNKNOWN LENGTH.

NOTE (1) INKEY\$# 4 LEAVES THE CURRENT STREAM UNCHANGED. ANY SHADOW ROM COMMAND RESETS THE CURRENT STREAM TO THE SCREEN.

(2) THE FOLLOWING COMMANDS

PRINT #4; : PRINT USR 432

DO NOT WORK AS PRINT RESETS THE CURRENT STREAM TO THE SCREEN. TO DO THIS USE

PRINT #4; LET I=USR 432 : PRINT I

THIS CAN MORE USEFULLY BE USED TO DETECT THE END OF A FILE. FOR EXAMPLE

PRINT #4; IF USR 423=0 THEN PRINT "EOF"

TO BACKUP THE UTILITY DISC USE THE PROGRAMME 'UT. BACKUP' AND NOT THE MAIN UTILITY PROGRAMME. THE MASS DUPLICATION OF THE UTILITY DISC LEAVES ONLY NECESSARY TRACKS FORMATTED AND SO THE MAIN PROGRAMME WILL FAIL WITH A DISC I/O ERROR.

$$\begin{array}{r} 9000 / 9DFF \\ 39936 \\ \hline 1FF = 512 \end{array}$$

SAVE
"UTILCODE1", 39936, 512
BOOTSTR 340

(E6)	(01)	(00)	(F0)
246	1	0	252

C. H8000 = 32768

10 CLEAR 32767

$$1530 = 30.000$$

1530 CF RST 08
2F DB 2F
21 0000 LD HL, 0
11 0080 LD DE, 8000
01 0020 LD BC, 2000
E0 80 LD R
C3 0007 JP 700

CF
2D

deil copyright

LINEA 8630 MODIFICATO IF in REM

© 1984 Dave Corney, 0:1

9000
9D53

40275-
39936
340


```

10 LET MEMSTART=PEEK 23675+256*PEEK 23676-6*18*256-256-600: REM MAXT=6
20 CLEAR MEMSTART-1
30 LET BUFFSTART=PEEK 23730+256*PEEK 23731+1
40 GO SUB 8650: LET BOOTSTR=CODESTART+CODELEN
50 LOAD *1:FS$CODE CODESTART: LOAD *1:"BOOTSTR"CODE CODESTART+CODELEN
60 LET DANDS=CODESTART: LET TRACK=CODESTART+1: LET STARTBUFF=CODESTART
+2: LET INITBUFF=CODESTART+4
70 LET WRITEBOOT=INITBUFF+3: LET RESTORE=WRITEBOOT+3: LET WRITET=RESTO
RE+3: LET STEPIN=WRITET+3
80 LET WRITEM=STEPIN+3: LET READM=WRITEM+3: LET ENQM=READM+3
90 LET MAXT=6: LET MAXSECT=MAXT*18: DIM CS$(16): LET DRNO=1: GO SUB 830
0: REM GET DEFAULT VALUES
100 GO SUB 0000 : REM DISPLAY TITLE
110 GO SUB 0800 : REM DISPLAY MENU
120 GO SUB 0700 : REM GET A KEY
140 IF IS<>"1" AND IS<>"2" AND IS<>"3" AND IS<>"4" THEN GO TO 120
150 LET OPTION=VAL IS
160 GO SUB 200+(OPTION-1)*1000
170 GO TO 110
200 CLS
210 PRINT AT 1,0:"DISC FORMATTER"
220 PRINT AT 2,0:"-----"
240 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
250 GO SUB 0700
260 IF IS<>"1" AND IS<>"2" THEN GO TO 250
270 PRINT AT 6,28:IS: LET DRNO=VAL IS
276 PRINT AT 8,3:"AT PRESENT THE SYSTEM IS SET      FOR ": IF SIDES=1 TH
EN PRINT "SINGLE ":
279 IF SIDES=2 THEN PRINT "DOUBLE ":
282 PRINT "SIDED ":STR$ NOTRACKS:" TRACK      DRIVES.": PRINT AT 12,3:
"DO YOU WISH TO CHANGE THIS      CONFIGURATION (Y OR N)? ":
285 GO SUB 0700: IF IS<>"Y" AND IS<>"N" THEN GO TO 285
286 PRINT AT 12,0:"
"
288 IF IS="N" THEN GO TO 440
291 PRINT AT 8,3:"
"
300 PRINT AT 8,5:"IS THE DRIVE SINGLE OR"
310 PRINT AT 9,5:"DOUBLE SIDED (S OR D)?"
320 GO SUB 0700
330 IF IS<>"S" AND IS<>"D" THEN GO TO 320
340 PRINT AT 9,28:IS
350 IF IS="S" THEN LET SIDES=1
360 IF IS="D" THEN LET SIDES=2
370 PRINT AT 11,5:"DOES THE DRIVE HAVE 40"
380 PRINT AT 12,5:"OR 80 TRACKS (F OR E)?"
390 GO SUB 0700
400 IF IS<>"F" AND IS<>"E" THEN GO TO 390
410 IF IS="F" THEN LET NOTRACKS=40
420 IF IS="E" THEN LET NOTRACKS=80
430 PRINT AT 12,28:NOTRACKS
440 INPUT "DISC TITLE ":TS
450 IF LEN TS>10 THEN PRINT AT 20,0:"TITLE TOO LONG, PLEASE REENTER": P
AUSE 30: PRINT AT 20,0:"      ": GO TO 440
455 IF TS="" THEN LET TS=""
460 PRINT AT 14,5:"DISC TITLE: ":TS
470 PRINT AT 18,3:"ARE YOU SURE THAT YOU WISH TO": PRINT AT 19,3:"FORMA
T THE DISC (Y OR N)?"
480 GO SUB 0700
490 IF IS<>"Y" AND IS<>"N" THEN GO TO 480
500 IF IS="N" THEN RETURN
510 CLS : PRINT AT 1,8:"FORMATTING DISC": PRINT AT 2,8:"-----"
": PRINT : PRINT
530 GO SUB 8750: RANDOMIZE USR INITBUFF
550 LET SDS=SIDES-1: POKE DANDS,DRNO
582 DATA 0,7,14,3,10,17,6,13,2,9,16,5,12,1,8,15,4,11
585 FOR S=0 TO SDS: INK 4*S: PRINT AT 3,0:"SIDE ":S: RESTORE : LET BC=B

```



```

BUFFSTART+97: FOR C=0 TO 17: READ C1: POKE BC+2,C1: POKE BC+S,0: LET BC=B
C+334: NEXT C: POKE DANDS,DRNO+16*S: RANDOMIZE USR RESTORE
590 FOR T=0 TO NOTRACKS-1
620 LET BC=BUFFSTART+97: FOR C=0 TO 17: POKE BC,T: LET BC=BC+334: NEXT
C: POKE STARTBUFF+1,INT (BUFFSTART/256): POKE STARTBUFF,BUFFSTART-256*PE
EK (STARTBUFF+1): RANDOMIZE USR WRITET
640 IF T<10 THEN PRINT "0":
660 PRINT STR$ T:" ": IF T<NOTRACKS-1 THEN RANDOMIZE USR STEPIN
670 NEXT T: NEXT S: INK 0
690 LET S=1: REM SET SIDE
700 GO SUB 8000
710 POKE BOOTSTR+2,NOTRACKS
720 POKE BOOTSTR+3,18
730 POKE BOOTSTR+4,64+(SIDES-1)*16
740 RANDOMIZE USR WRITEROOT
880 FORMAT "M":DRNO:TS
890 PRINT AT 6+T/8,9:"DISC FORMATTED"
950 PAUSE 160
960 RETURN
1200 CLS
1210 PRINT AT 1,10:"DISC BACKUP"
1220 PRINT AT 2,10:"-----"
1230 PRINT AT 6,3:"SOURCE DRIVE (1 OR 2)?"
1240 GO SUB 9700
1250 IF IS<>"1" AND IS<>"2" THEN GO TO 1240
1260 PRINT AT 6,26:IS
1270 LET SDRNO=VAL IS
1280 PRINT AT 8,3:"DESTINATION DRIVE (1 OR 2)?"
1290 GO SUB 9700
1300 IF IS<>"1" AND IS<>"2" THEN GO TO 1290
1310 PRINT AT 8,31:IS
1320 LET DDRNO=VAL IS
1330 IF SDRNO=DDRNO THEN GO SUB 8000
1340 IF SDRNO<>DDRNO THEN GO SUB 7000
1350 RETURN
2200 CLS
2210 PRINT AT 1,9:"COMPACT A DISC"
2220 PRINT AT 2,9:"-----"
2230 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
2240 GO SUB 9700
2250 IF IS<>"1" AND IS<>"2" THEN GO TO 2240
2260 PRINT AT 6,27:IS
2270 LET DRNO=VAL IS
2280 PRINT
2300 GO SUB 6000
2330 RETURN
3200 PRINT USR 0
3210 STOP
6000 OPEN #4:" CAT ":DRNO:IN
6010 OPEN #5:" CAT ":DRNO:OUT
6015 OPEN #6:" CAT ":DRNO: PRINT #6:: LET IX=PEEK 23633+256*PEEK 23634:
POKE IX+18,255: POKE IX+19,255: POKE IX+30,PEEK (IX+8): POKE IX+31,PEEK
(IX+9)
6020 LET NEXTBLK=0: LET ERROR=0
6030 GO SUB 9000: REM GET A CATALOGUE ENTRY INTO C$
6040 LET FIRSTBLK=CODE C$(3)+256*CODE C$(4)
6050 LET LASTBLK=CODE C$(5)+256*CODE C$(6)
6060 IF LASTBLK=65535 THEN GO SUB 9050: GO TO 6130
6065 INPUT : PRINT TAB 7:C$(7 TO 16)
6070 IF FIRSTBLK=NEXTBLK THEN GO SUB 9400: GO TO 6100
6080 IF FIRSTBLK>NEXTBLK THEN GO SUB 9500: GO TO 6100
6090 LET ERROR=1: REM WE SHOULD NOT GET HERE
6100 IF ERROR=0 THEN GO TO 6030
6110 PRINT : PRINT TAB 5:"ERROR WHEN COMPACTING THE DISC"
6120 GO TO 6140
6130 PRINT : PRINT TAB 5:"DISC COMPACTED"
6140 CLOSE #4
6150 CLOSE #5
6160 CLOSE #6
6170 PAUSE 160

```

```

6180 RETURN
6095 REM BACKUP WITH SEPARATE DRIVES
7000 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO: PRINT AT 17,0;"PUT THE DESTINATION DISC INTO": PRINT "DRIVE NUMBER "
:DDRNO
7010 GO SUB 9750
7020 REM GET SOURCE AND DESTINATION TRACKS AND SIDES
7030 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
7035 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
7040 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
PAUSE 80: RETURN
7050 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
7055 REM READ TRACKS
7060 GO SUB 8750: GO SUB 9100
7110 LET SAVESS=S: LET SAVEST=T: LET S=SAVEDS: LET T=SAVEDT
7120 GO SUB 8750: GO SUB 9200
7130 IF T=DT THEN GO TO 7190
7170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVESS: LET T=SAVEST
7180 GO TO 7060
7190 PAUSE 80
7200 RETURN
8000 GO SUB 9300: REM INSERT SOURCE DISC
8001 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
8002 REM ST AND SS
8005 REM GET DESTINATION TRACKS AND SIDES
8010 GO SUB 9340: REM INSERT DESTINATION DISC
8014 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
8015 REM DT AND DS
8020 REM
8030 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
PAUSE 80: RETURN
8035 REM
8040 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
8045 REM READ TRACKS
8050 GO SUB 9300
8060 GO SUB 8750: GO SUB 9100
8070 REM SAVE VALUES
8080 LET SAVESS=S: LET SAVEST=T: LET S=SAVEDS: LET T=SAVEDT
8090 REM WRITE TRACKS
8100 GO SUB 9340
8120 GO SUB 8750: GO SUB 9200
8125 REM FINISHED?
8130 IF T=DT THEN GO TO 8190
8135 REM SAVE VALUES
8170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVESS: LET T=SAVEST
8175 REM REPEAT UNTIL FINISHED
8180 GO TO 8050
8190 PAUSE 80
8200 RETURN
8295 REM GET TRACKS AND SIDES
8300 OPEN #4;" CAT ";DRNO: CLOSE #4: POKE DANDS,DRNO
8310 RANDOMIZE USR ENQM
8320 LET NOTRACKS=PEEK TRACK
8330 LET SIDES=1+INT (PEEK (DANDS)/16)
8340 RETURN
8645 REM GET INFORMATION ON UTILCODE
8650 LET AS=STR$ USR 8
8660 LET FS="UTILCODE"+A$(LEN AS)
8670 OPEN #4:1:FSIN
8680 IF CODE INKEY$#4<>3 THEN PRINT "WRONG FILE TYPE: ";FS: STOP
8690 LET CODELEN=CODE INKEY$#4+256*CODE INKEY$#4
8700 LET CODESTART=CODE INKEY$#4+256*CODE INKEY$#4
8710 CLOSE #4
8720 RETURN
8745 REM SET UP BUFFER START FOR M/CODE
8750 POKE STARTBUFF+1,INT (BUFFSTART/256)
8760 POKE STARTBUFF,BUFFSTART-256*PEEK (STARTBUFF+1)
8770 RETURN
8895 REM SET UP DRIVE AND SIDE
8900 POKE DANDS,DRNO+16*(S-1)

```



```

8010 RETURN
8095 REM GET A CATALOGUE ENTRY INTO C$
9000 FOR I=1 TO 16
9010 LET C$(I)=INKEY$#4
9020 NEXT I
9030 RETURN
9040 REM WRITE A CATALOGUE ENTRY FROM C$
9050 FOR I=1 TO 16
9060 PRINT #5;C$(I);
9070 NEXT I
9080 RETURN
9095 REM READ TRACKS
9100 FOR C=1 TO MAXT
9110 IF T=ST THEN GO TO 9160
9115 REM
9120 POKE TRACK,T: POKE DANDS,SDRNO+16*(S-1): RANDOMIZE USR READM
9125 REM
9130 IF S<SS THEN LET S=S+1: GO TO 9150
9140 IF S=SS THEN LET S=1: LET T=T+1
9150 NEXT C
9160 RETURN
9195 REM WRITE TRACKS
9200 FOR C=1 TO MAXT
9210 IF T=DT THEN GO TO 9260
9220 POKE TRACK,T: POKE DANDS,DDRNO+16*(S-1): RANDOMIZE USR WRITEM
9230 IF S<DS THEN LET S=S+1: GO TO 9250
9240 IF S=DS THEN LET S=1: LET T=T+1
9250 NEXT C
9260 RETURN
9295 REM INSERT SOURCE DISC
9300 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO
9310 GO SUB 9750
9320 PRINT AT 14,0;"": PRINT ""
"
9330 RETURN
9340 PRINT AT 14,0;"PUT THE DESTINATION DISC INTO ": PRINT "DRIVE NUMBER
":DDRNO
9350 GO SUB 9750
9360 PRINT AT 14,0;"": PRINT ""
"
9370 RETURN
9400 GO SUB 9050
9410 LET NEXTBLK=LASTBLK+1
9420 RETURN
9500 LET SAVENBLK=NEXTBLK
9510 FOR N=FIRSTBLK TO LASTBLK
9520 PRINT #6;TAB N;
9530 POKE IX+7,128+PEEK (IX+7): POKE IX+12,NEXTBLK-INT (NEXTBLK/256)*256
: POKE IX+13,INT (NEXTBLK/256)
9540 LET NEXTBLK=NEXTBLK+1
9550 NEXT N
9630 LET C$(4)=CHR$ INT (SAVENBLK/256)
9635 LET C$(3)=CHR$ (SAVENBLK-256*CODE C$(4))
9640 LET C$(6)=CHR$ INT ((NEXTBLK-1)/256)
9645 LET C$(5)=CHR$ (NEXTBLK-1-256*CODE C$(6))
9650 GO SUB 9050
9660 RETURN
9700 PAUSE 0
9710 LET IS=INKEY$
9720 RETURN
9730 REM WAIT FOR ANY KEY
9750 PRINT AT 21,4;"PRESS ANY KEY WHEN READY"
9760 PAUSE 0
9770 PRINT AT 21,4;"": PRINT ""
"
9780 RETURN
9795 REM MENU
9800 CLS
9802 PRINT AT 0,0;"? ???"
9804 PRINT AT 1,0;"?????? ?? ? ?"

```

```

0806 PRINT AT 2,0;"?  ????? ? ?"
0808 PRINT AT 3,0;"?  ?? ?? ?? ?"
0810 PRINT AT 4,0;"?  ??? ? ???"
0812 PRINT AT 5,0;"?????????????"
0814 PRINT AT 11,6;"(1) FORMAT A DISC"
0816 PRINT AT 13,6;"(2) BACKUP A DISC"
0818 PRINT AT 15,6;"(3) COMPACT A DISC"
0820 PRINT AT 17,6;"(4) FINISH"
0840 PRINT AT 20,4;"ENTER THE NUMBER OF THE"
0850 PRINT AT 21,4;"OPTION THAT YOU REQUIRE"
0860 RETURN
0870 REM
0895 REM TITLE SCREEN
0900 PRINT AT 4,0;"???           ?           ??????????"
0902 PRINT AT 5,0;"?  ?? ?? ?? ????? ?? ? ?? ??"
0904 PRINT AT 6,0;"?  ??? ????? ?? ????? ? ? ?? ? ??"
0906 PRINT AT 7,0;"?  ?? ?? ?? ????? ? ? ? ?? ?? ?"
0908 PRINT AT 8,0;"?? ?? ?? ?? ???      ?? ?? ?? ??"
0910 PRINT AT 9,0;"  ?"
0912 PRINT AT 11,6;"?  ?? ? ?? ? ?"
0914 PRINT AT 12,6;"?  ????? ?? ??? ?? ???"
0916 PRINT AT 13,6;"?  ?? ? ?? ? ? ?????"
0918 PRINT AT 14,6;"?  ????? ?? ??? ? ? ?"
0920 PRINT AT 15,6;"????? ?? ??? ??? ??"
0930 PAUSE 80
0940 RETURN

```



```

0100 JP F000
0103 LD HL,0700
0106 LD (05C3),HL
0109 XOR A
010A LD (020B),A
010D LD (0210),A
0110 CALL 0200
0113 LD A,(0210)
0116 INC A
0117 CP 12
0119 JP NC,0120
011C LD DE,0100
011F LD HL,(05C3)
0122 ADD HL,DE
0123 LD (05C3),HL
0126 JP 010D
0129 XOR A
012A LD (0210),A
012D LD A,(020B)
0130 INC A
0131 CP 0B06
0133 JP NC,0000
0136 LD (020B),A
0139 JP 0110
013C

```

5A0
6D1

#

[illegible]

COMMAND==>RN

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 17 DRIVE A DENS=40(O/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	64	74	78	74	22	CC	22	73	22	0D	00	28	02	00	E2	0D	DTXT"."S"..(.....
10	EA	6D	61	78	74	3D	36	0D	00	14	12	00	FD	6D	65	6D	.MAXT=6.....MEM
20	73	74	61	72	74	2D	31	0E	00	00	01	00	00	0D	00	1E	START-1.....
30	37	00	F1	62	75	66	66	73	74	61	72	74	3D	BE	32	33	7..BUFFSTART=.23
40	37	33	30	0E	00	00	B2	5C	00	2B	32	35	36	0E	00	00	730....\..+256...
50	00	01	00	2A	BE	32	33	37	33	31	0E	00	00	B3	5C	00	...*.23731....\.
60	2B	31	0E	00	00	01	00	00	0D	00	28	27	00	ED	38	36	+1.....('..86
70	35	30	0E	00	00	CA	21	00	3A	F1	62	6F	6F	74	73	74	50....!...BOOTST

COMMAND==>↑Q LIST DEVICE OFF

COMMAND==>RC

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 20 DRIVE A DENS=40(O/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	0D	0D	0D	20	20	20	20	54	68	69	73	20	20	76	65	72	... THIS VER
10	73	69	6F	6E	20	20	6F	66	20	20	74	68	65	20	20	64	SION OF THE D
20	69	73	63	0D	6F	70	65	72	61	74	69	6E	67	20	73	79	ISC.OPERATING SY
30	73	74	65	6D	20	68	61	73	20	61	20	6E	75	6D	62	65	STEM HAS A NUMBE
40	72	20	6F	66	0D	65	78	74	65	6E	73	69	6F	6E	73	20	R OF.EXTENSIONS
50	77	68	69	63	68	20	69	6D	70	72	6F	76	65	20	69	74	WHICH IMPROVE IT
60	73	0D	63	6F	6D	70	61	74	69	62	69	6C	69	74	79	20	S.COMPATIBILITY
70	77	69	74	68	20	74	68	65	20	6D	69	63	72	6F	2D	0D	WITH THE MICRO--

COMMAND==>RN

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 21 DRIVE A DENS=40(O/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	64	72	69	76	65	20	73	79	73	74	65	6D	2E	20	54	68	DRIVE SYSTEM. TH
10	65	73	65	20	65	78	74	65	6E	73	69	6F	6E	73	0D	61	ESE EXTENSIONS.A
20	72	65	20	64	65	73	63	72	69	62	65	64	20	62	65	6C	RE DESCRIBED BEL
30	6F	77	2E	20	0D	0D	0D	20	20	20	20	46	6F	72	20	4C	OW. ... FOR L
40	4F	41	44	2A	20	61	6E	64	20	53	41	56	45	2A	20	61	OAD* AND SAVE* A
50	6C	6C	20	6F	66	0D	74	68	65	20	75	73	75	61	6C	20	LL OF.THE USUAL
60	63	61	73	73	65	74	74	65	2F	6D	69	63	72	6F	64	72	CASSETTE/MICRODR
70	69	76	65	0D	6F	70	74	69	6F	6E	73	20	61	72	65	20	IVE.OPTIONS ARE

COMMAND==>↑Q LIST DEVICE OFF

#L100 13B

RDSK

0100 JP F000
0103 LD HL,0700
0106 LD (05C3),HL
0109 XOR A
010A LD (020B),A
010D LD (0210),A
0110 CALL 0200
0113 LD DE,0100
0116 LD HL,(05C3)
0119 ADD HL,DE
011A LD (05C3),HL
011D LD A,(0210)
0120 INC A
0121 CP 12
0123 JP NC,0120
0126 JP 010D
0129 XOR A
012A LD (0210),A
012D LD A,(020B)
0130 INC A
0131 CP 08
0133 JP NC,0000
0136 LD (020B),A
0139 JP 0110
013C

DANDO, IN MONITOR, 6103
NELLE CONDIZIONI PREESISTENTE
DAL LISTATO A FIANCO, SI HA
LA LETTURA DELLE TRACCE
DA 00 A 04H (10000H) DEL
DISCO OPUS. IL BUFFER
DI MEMORIA USATO INIZIA A
700H.

#L200 210

0200 LD A,80
0202 LD (0051),A
0205 LD A,00
0207 LD (DD40),A
020A LD A,00
020C LD (DD41),A
020F LD A,00
0211 LD (DD43),A
0214 LD A,03
0216 LD (0050),A
0219 CALL 05A0
021C RET
021D

CODICE DISCO (5th/D.D.)

DRIVE

TRACCE

SETTORE - 1 (x 0, FFH)

NO TENTATIVI LETTURA

← SOSTITUENDO 05AAH A 05APH
SI HA LA SCRITTURA INVECE
DELLA LETTURA.

#L5A0 6D1

05A0 CALL 061D
05A3 LD A,(0047)
05A6 SET 0,A
05A8 JR 08
05AA CALL 061D
05AD LD A,(0047)
05B0 RES 0,A
05B2 RES 7,A
05B4 LD (0047),A
05B7 LD A,(0050)
05BA LD B,A
05BB PUSH BC
05BC CALL 0673
05BF POP BC
05C0 JR NZ,54
05C2 LD HL,0700
05C5 PUSH BC
05C6 LD BC,00D3
05C9 LD A,(0047)
05CC BIT 0,A
05CE JR 7,11
05D0 CALL F83F
05D3 LD A,88
05D5 CALL F021

← MONITOR 5.0

← MONITOR 5.0

05D8	INIR	
05DA	NOP	
05DB	NOP	
05DC	NOP	
05DD	NOP	
05DE	NOP	
05DF	JR	0F
05E1	CALL	F83F
05E4	LD	A, A8
05E6	CALL	F021
05E9	OTIR	
05EB	NOP	
05EC	NOP	
05ED	NOP	
05EE	NOP	
05EF	NOP	
05F0	CALL	F842
05F3	CALL	F01E
05F6	POP	BC
05F7	AND	1F
05F9	JR	Z, 1B
05FB	NOP	
05FC	NOP	
05FD	NOP	
05FE	DEC	B
05FF	JP	NZ, 05BB
0602	LD	A, (0047)
0605	BIT	7, A
0607	JR	NZ, 0D
0609	SET	7, A
060B	LD	(0047), A
060E	CALL	064A
0611	JR	NZ, 03
0613	JP	05B7
0616	LD	(DD4C), A
0619	XOR	A
061A	OUT	D6, A
061C	RET	
061D	PUSH	AF
061E	PUSH	HL
061F	LD	A, (DD43)
0622	INC	A
0623	LD	(DD51), A
0626	LD	HL, 0051
0629	LD	A, (DD40)
062C	ADD	A, L
062D	LD	L, A
062E	XOR	A
062F	BIT	4, (HL)
0631	LD	A, (DD41)
0634	JR	Z, 02
0636	SRL	A
0638	LD	(DD50), A
063B	LD	A, (HL)
063C	RES	4, A
063E	JR	NC, 02
0640	SET	4, A
0642	OUT	D6, A
0644	LD	(004E), A
0647	POP	HL
0648	POP	AF
0649	RET	
064A	LD	A, (DD40)
064D	CALL	F04B
0650	OR	00
0652	CALL	F021
0655	CALL	F01E

0658	CPL	
0659	AND	04
065B	PUSH	AF
065C	LD	A, (004E)
065F	OUT	D6, A
0661	CALL	0668
0664	LD	(HL), 00
0666	POP	AF
0667	RET	
0668	PUSH	AF
0669	LD	HL, 004A
066C	LD	A, (DD40)
066F	ADD	A, L
0670	LD	L, A
0671	POP	AF
0672	RET	
0673	PUSH	BC
0674	LD	B, 03
0676	CALL	0668
0679	LD	A, (HL)
067A	CP	FF
067C	JR	NZ, 06
067E	CALL	064A
0681	JR	NZ, 4B
0683	XOR	A
0684	OUT	D1, A
0686	LD	C, A
0687	LD	A, (DD51)
068A	OUT	D2, A
068C	LD	A, (DD50)
068F	OUT	D7, A
0691	CP	C
0692	LD	C, 00
0694	JR	Z, 02
0696	LD	C, 04
0698	LD	A, (DD40)
069B	CALL	F04B
069E	OR	10
06A0	OR	C
06A1	CALL	F021
06A4	CALL	F01E
06A7	AND	18
06A9	PUSH	AF
06AA	LD	A, (004E)
06AD	OUT	D6, A
06AF	POP	AF
06B0	JR	Z, 0B
06B2	CALL	064A
06B5	JR	NZ, 17
06B7	DJNZ	CA
06B9	LD	A, 83
06BB	JR	11
06BD	PUSH	AF
06BE	IN	A, D1
06C0	LD	(HL), A
06C1	BIT	2, C
06C3	JR	Z, 08
06C5	LD	BC, 1B58
06C8	DEC	BC
06C9	LD	A, B
06CA	OR	C
06CB	JR	NZ, FB
06CD	POP	AF
06CE	POP	BC
06CF	BIT	7, A
06D1	RET	
06D2		

DISASSEMBLAGGIO ROM SPECTRUM

LUNOME22A 4000

START ADDR. 0

OFFSET 109

BYTES: 13 - 17

25 - 27

2B - 2F

5F - 65

95 - 28D

3F9 - 406 ← CHECK 1DE9 - 1DE9

439 - 43A

43F - 440

449 - 457

46D - 4C1

941 - 9F3

A11 - A22

FA0 - FAB

1391 - 1354

15AF - 15C3

1505 - 15D3

162D - 1633

1716 - 171B

1737 - 173B

177A - 1780

1A40 - 1B16

1C01 - 1C0C

1C8B - 1C8B

1CEB - 1CEC

1CEF - 1CEF

10F7 - 10F8

1D14 - 1D15

1D17 - 1D1C

1DB0 - 1DC1

1DD9 - 1DD9

1DD3 - 1DE8

1F37 - 1F39

21CF - 21CF

21D5 - 21D5

232E - 24B6

24FA - 24FA

2596 - 25AE

25F8 - 262F

2795 - 27BC

2813 - 2813

2CCE - 2CEA

2D3B - 2D7E

2DA2 - 2E55

2EC0 - 2ECE

2F2F - 2F30

32C5 - 335C

3440 - 3468

36A1 - 3FFF


```

10 LET MEMSTART=PEEK 23675+256*PEEK 23676-6*18*256-256-600: REM MAXT=6
20 CLEAR MEMSTART-1
30 LET BUFFSTART=PEEK 23730+256*PEEK 23731+1
40 GO SUB 8650: LET BOOTSTR=CODESTART+CODELEN
50 LOAD *1:FS CODE CODESTART: LOAD *1:"BOOTSTR"CODE CODESTART+CODELEN
60 LET DANDS=CODESTART: LET TRACK=CODESTART+1: LET STARTBUFF=CODESTART
+2: LET INITBUFF=CODESTART+4
70 LET WRITEBOOT=INITBUFF+3: LET RESTORE=WRITEBOOT+3: LET WRITET=RESTO
RE+3: LET STEPIN=WRITET+3
80 LET WRITEM=STEPIN+3: LET READM=WRITEM+3: LET ENQM=READM+3
90 LET MAXT=6: LET MAXSECT=MAXT*18: DIM CS(16): LET DRNO=1: GO SUB 830
0: REM GET DEFAULT VALUES
100 GO SUB 9000: REM DISPLAY TITLE
110 GO SUB 9800: REM DISPLAY MENU
120 GO SUB 9700: REM GET A KEY
140 IF IS<>"1" AND IS<>"2" AND IS<>"3" AND IS<>"4" THEN GO TO 120
150 LET OPTION=VAL IS
160 GO SUB 200+(OPTION-1)*1000
170 GO TO 110
200 CLS
210 PRINT AT 1,0:"DISC FORMATTER"
220 PRINT AT 2,0:"=====
240 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
250 GO SUB 9700
260 IF IS<>"1" AND IS<>"2" THEN GO TO 250
270 PRINT AT 6,28:IS: LET DRNO=VAL IS
276 PRINT AT 8,3:"AT PRESENT THE SYSTEM IS SET      FOR ": IF SIDES=1 TH
EN PRINT "SINGLE ":
270 IF SIDES=2 THEN PRINT "DOUBLE ":
282 PRINT "SIDED ":STR$ NOTRACKS:" TRACK      DRIVES.": PRINT AT 12,3:
"DO YOU WISH TO CHANGE THIS      CONFIGURATION (Y OR N)? ":
285 GO SUB 9700: IF IS<>"Y" AND IS<>"N" THEN GO TO 285
286 PRINT AT 12,0:"
"
288 IF IS="N" THEN GO TO 440
201 PRINT AT 8,3:"
"
300 PRINT AT 8,5:"IS THE DRIVE SINGLE OR"
310 PRINT AT 9,5:"DOUBLE SIDED (S OR D)?"
320 GO SUB 9700
330 IF IS<>"S" AND IS<>"D" THEN GO TO 320
340 PRINT AT 9,28:IS
350 IF IS="S" THEN LET SIDES=1
360 IF IS="D" THEN LET SIDES=2
370 PRINT AT 11,5:"DOES THE DRIVE HAVE 40"
380 PRINT AT 12,5:"OR 80 TRACKS (F OR E)?"
390 GO SUB 9700
400 IF IS<>"F" AND IS<>"E" THEN GO TO 390
410 IF IS="F" THEN LET NOTRACKS=40
420 IF IS="E" THEN LET NOTRACKS=80
430 PRINT AT 12,28:NOTRACKS
440 INPUT "DISC TITLE ":TS
450 IF LEN TS>10 THEN PRINT AT 20,0:"TITLE TOO LONG, PLEASE REENTER": P
AUSE 30: PRINT AT 20,0:"      ": GO TO 440
455 IF TS="" THEN LET TS=" "
460 PRINT AT 14,5:"DISC TITLE: ":TS
470 PRINT AT 18,3:"ARE YOU SURE THAT YOU WISH TO": PRINT AT 19,3:"FORMA
T THE DISC (Y OR N)?"
480 GO SUB 9700
490 IF IS<>"Y" AND IS<>"N" THEN GO TO 480
500 IF IS="N" THEN RETURN
510 CLS: PRINT AT 1,8:"FORMATTING DISC": PRINT AT 2,8:"=====
": PRINT: PRINT
530 GO SUB 8750: RANDOMIZE USR INITBUFF
550 LET SDS=SIDES-1: POKE DANDS,DRNO
582 DATA 0,7,14,3,10,17,6,13,2,9,16,5,12,1,8,15,4,11
585 FOR S=0 TO SDS: INK 4*S: PRINT AT 3,0:"SIDE ":S: RESTORE: LET BC=B

```



```

BUFFSTART+97: FOR C=0 TO 17: READ C1: POKE BC+2,C1: POKE BC+S,0: LET BC=B
C+334: NEXT C: POKE DANDS,DRNO+16*S: RANDOMIZE USR RESTORE
590 FOR T=0 TO NOTRACKS-1
620 LET BC=BUFFSTART+97: FOR C=0 TO 17: POKE BC,T: LET BC=BC+334: NEXT
C: POKE STARTBUFF+1,INT (BUFFSTART/256): POKE STARTBUFF,BUFFSTART-256*PE
EK (STARTBUFF+1): RANDOMIZE USR WRITET
640 IF T<10 THEN PRINT "0":
660 PRINT STR$ T:" ": IF T<NOTRACKS-1 THEN RANDOMIZE USR STEPIN
670 NEXT T: NEXT S: INK 0
690 LET S=1: REM SET SIDE
700 GO SUB 8900
710 POKE BOOTSTR+2,NOTRACKS
720 POKE BOOTSTR+3,18
730 POKE BOOTSTR+4,64+(SIDES-1)*16
740 RANDOMIZE USR WRITEROOT
880 FORMAT "M":DRNO:TS
890 PRINT AT 6+T/8,9:"DISC FORMATTED"
950 PAUSE 160
960 RETURN
1200 CLS
1210 PRINT AT 1,10:"DISC BACKUP"
1220 PRINT AT 2,10:"-----"
1230 PRINT AT 6,3:"SOURCE DRIVE (1 OR 2)?"
1240 GO SUB 9700
1250 IF IS<>"1" AND IS<>"2" THEN GO TO 1240
1260 PRINT AT 6,26:IS
1270 LET SDRNO=VAL IS
1280 PRINT AT 8,3:"DESTINATION DRIVE (1 OR 2)?"
1290 GO SUB 9700
1300 IF IS<>"1" AND IS<>"2" THEN GO TO 1290
1310 PRINT AT 8,31:IS
1320 LET DDRNO=VAL IS
1330 IF SDRNO-DDRNO THEN GO SUB 8000
1340 IF SDRNO<>DDRNO THEN GO SUB 7000
1350 RETURN
2200 CLS
2210 PRINT AT 1,0:"COMPACT A DISC"
2220 PRINT AT 2,0:"-----"
2230 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
2240 GO SUB 9700
2250 IF IS<>"1" AND IS<>"2" THEN GO TO 2240
2260 PRINT AT 6,27:IS
2270 LET DRNO=VAL IS
2280 PRINT
2300 GO SUB 6000
2330 RETURN
3200 PRINT USR 0
3210 STOP
6000 OPEN #4:" CAT ":DRNO:IN
6010 OPEN #5:" CAT ":DRNO:OUT
6015 OPEN #6:" CAT ":DRNO: PRINT #6:: LET IX=PEEK 23633+256*PEEK 23634:
POKE IX+18,255: POKE IX+19,255: POKE IX+30,PEEK (IX+8): POKE IX+31,PEEK
(IX+9)
6020 LET NEXTBLK=0: LET ERROR=0
6030 GO SUB 9000: REM GET A CATALOGUE ENTRY INTO C$
6040 LET FIRSTBLK=CODE C$(3)+256*CODE C$(4)
6050 LET LASTBLK=CODE C$(5)+256*CODE C$(6)
6060 IF LASTBLK-65535 THEN GO SUB 9050: GO TO 6130
6065 INPUT ;: PRINT TAB 7:C$(7 TO 16)
6070 IF FIRSTBLK=NEXTBLK THEN GO SUB 9400: GO TO 6100
6080 IF FIRSTBLK>NEXTBLK THEN GO SUB 9500: GO TO 6100
6090 LET ERROR=1: REM WE SHOULD NOT GET HERE
6100 IF ERROR=0 THEN GO TO 6030
6110 PRINT : PRINT TAB 5:"ERROR WHEN COMPACTING THE DISC"
6120 GO TO 6140
6130 PRINT : PRINT TAB 5:"DISC COMPACTED"
6140 CLOSE #4
6150 CLOSE #5
6160 CLOSE #6
6170 PAUSE 160

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```

6180 RETURN
6905 REM BACKUP WITH SEPARATE DRIVES
7000 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO: PRINT AT 17,0;"PUT THE DESTINATION DISC INTO": PRINT "DRIVE NUMBER "
;DDRNO
7010 GO SUB 9750
7020 REM GET SOURCE AND DESTINATION TRACKS AND SIDES
7030 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
7035 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
7040 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
  PAUSE 80: RETURN
7050 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
7055 REM READ TRACKS
7060 GO SUB 8750: GO SUB 9100
7110 LET SAVES=S: LET SAVEDT=T: LET S=SAVEDS: LET T=SAVEDT
7120 GO SUB 8750: GO SUB 9200
7130 IF T=DT THEN GO TO 7190
7170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVES: LET T=SAVEDT
7180 GO TO 7060
7190 PAUSE 80
7200 RETURN
8000 GO SUB 9300: REM INSERT SOURCE DISC
8001 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
8002 REM ST AND SS
8005 REM GET DESTINATION TRACKS AND SIDES
8010 GO SUB 9340: REM INSERT DESTINATION DISC
8014 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
8015 REM DT AND DS
8020 REM
8030 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
  PAUSE 80: RETURN
8035 REM
8040 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
8045 REM READ TRACKS
8050 GO SUB 9300
8060 GO SUB 8750: GO SUB 9100
8070 REM SAVE VALUES
8080 LET SAVES=S: LET SAVEDT=T: LET S=SAVEDS: LET T=SAVEDT
8090 REM WRITE TRACKS
8100 GO SUB 9340
8120 GO SUB 8750: GO SUB 9200
8125 REM FINISHED?
8130 IF T=DT THEN GO TO 8190
8135 REM SAVE VALUES
8170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVES: LET T=SAVEDT
8175 REM REPEAT UNTIL FINISHED
8180 GO TO 8050
8190 PAUSE 80
8200 RETURN
8205 REM GET TRACKS AND SIDES
8300 OPEN #4:" CAT ";DRNO: CLOSE #4: POKE DANDS,DRNO
8310 RANDOMIZE USR ENQM
8320 LET NOTRACKS=PEEK TRACK
8330 LET SIDES=1+INT (PEEK (DANDS)/16)
8340 RETURN
8645 REM GET INFORMATION ON UTILCODE
8650 LET AS=STR$ USR 8
8660 LET FS="UTILCODE"+A$(LEN AS)
8670 OPEN #4:1;FS:IN
8680 IF CODE INKEY$#4<>3 THEN PRINT "WRONG FILE TYPE: ";FS: STOP
8690 LET CODELEN=CODE INKEY$#4+256*CODE INKEY$#4
8700 LET CODESTART=CODE INKEY$#4+256*CODE INKEY$#4
8710 CLOSE #4
8720 RETURN
8745 REM SET UP BUFFER START FOR M/CODE
8750 POKE STARTBUFF+1,INT (BUFFSTART/256)
8760 POKE STARTBUFF,BUFFSTART-256*PEEK (STARTBUFF+1)
8770 RETURN
8805 REM SET UP DRIVE AND SIDE
8900 POKE DANDS,DRNO+16*(S-1)

```



```

8010 RETURN
8095 REM GET A CATALOGUE ENTRY INTO C$
0000 FOR I=1 TO 16
0010 LET C$(I)=INKEY$#4
0020 NEXT I
0030 RETURN
0040 REM WRITE A CATALOGUE ENTRY FROM C$
0050 FOR I=1 TO 16
0060 PRINT #5;C$(I);
0070 NEXT I
0080 RETURN
0095 REM READ TRACKS
0100 FOR C=1 TO MAXT
0110 IF T=ST THEN GO TO 0160
0115 REM
0120 POKE TRACK,T: POKE DANDS,SDRNO+16*(S-1): RANDOMIZE USR READM
0125 REM
0130 IF S<SS THEN LET S=S+1: GO TO 0150
0140 IF S=SS THEN LET S=1: LET T=T+1
0150 NEXT C
0160 RETURN
0195 REM WRITE TRACKS
0200 FOR C=1 TO MAXT
0210 IF T=DT THEN GO TO 0260
0220 POKE TRACK,T: POKE DANDS,DDRNO+16*(S-1): RANDOMIZE USR WRITEM
0230 IF S<DS THEN LET S=S+1: GO TO 0250
0240 IF S=DS THEN LET S=1: LET T=T+1
0250 NEXT C
0260 RETURN
0295 REM INSERT SOURCE DISC
0300 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO
0310 GO SUB 0750
0320 PRINT AT 14,0;"": PRINT ""
"
0330 RETURN
0340 PRINT AT 14,0;"PUT THE DESTINATION DISC INTO ": PRINT "DRIVE NUMBER
";DDRNO
0350 GO SUB 0750
0360 PRINT AT 14,0;"": PRINT ""
"
0370 RETURN
0400 GO SUB 0050
0410 LET NEXTBLK=LASTBLK+1
0420 RETURN
0500 LET SAVENBLK=NEXTBLK
0510 FOR N=FIRSTBLK TO LASTBLK
0520 PRINT #6;TAB N;
0530 POKE IX+7,128+PEEK (IX+7): POKE IX+12,NEXTBLK-INT (NEXTBLK/256)*256
: POKE IX+13,INT (NEXTBLK/256)
0540 LET NEXTBLK=NEXTBLK+1
0550 NEXT N
0630 LET C$(4)=CHR$ INT (SAVENBLK/256)
0635 LET C$(3)=CHR$ (SAVENBLK-256*CODE C$(4))
0640 LET C$(6)=CHR$ INT ((NEXTBLK-1)/256)
0645 LET C$(5)=CHR$ (NEXTBLK-1-256*CODE C$(6))
0650 GO SUB 0050
0660 RETURN
0700 PAUSE 0
0710 LET I$=INKEY$
0720 RETURN
0730 REM WAIT FOR ANY KEY
0750 PRINT AT 21,4;"PRESS ANY KEY WHEN READY"
0760 PAUSE 0
0770 PRINT AT 21,4;"": PRINT ""
"
0780 RETURN
0795 REM MENU
0800 CLS
0802 PRINT AT 0,0;"? ???"
0804 PRINT AT 1,0;"?????? ?? ? ?"

```

```

0806 PRINT AT 2,0;"? ???? ? ?"
0808 PRINT AT 3,0;"? ? ? ? ?"
0810 PRINT AT 4,0;"? ? ? ? ?"
0812 PRINT AT 5,0;"?????????????"
0814 PRINT AT 11,6;"(1) FORMAT A DISC"
0816 PRINT AT 13,6;"(2) BACKUP A DISC"
0818 PRINT AT 15,6;"(3) COMPACT A DISC"
0820 PRINT AT 17,6;"(4) FINISH"
0840 PRINT AT 20,4;"ENTER THE NUMBER OF THE"
0850 PRINT AT 21,4;"OPTION THAT YOU REQUIRE"
0860 RETURN
0870 REM
0895 REM TITLE SCREEN
0900 PRINT AT 4,0;"??? ? ?????"
0902 PRINT AT 5,0;"? ? ? ? ? ? ? ? ? ?"
0904 PRINT AT 6,0;"? ? ? ? ? ? ? ? ? ?"
0906 PRINT AT 7,0;"? ? ? ? ? ? ? ? ? ?"
0908 PRINT AT 8,0;"? ? ? ? ? ? ? ? ? ?"
0910 PRINT AT 9,0;" ?"
0912 PRINT AT 11,6;"? ? ? ? ? ?"
0914 PRINT AT 12,6;"? ? ? ? ? ? ? ?"
0916 PRINT AT 13,6;"? ? ? ? ? ? ? ?"
0918 PRINT AT 14,6;"? ? ? ? ? ? ? ?"
0920 PRINT AT 15,6;"???? ? ? ? ? ? ?"
0930 PAUSE 80
0940 RETURN

```



```

0100 JP F000
0103 LD HL,0700
0106 LD (05C3),HL
0109 XOR A
010A LD (020B),A
010D LD (0210),A
0110 CALL 0200
0113 LD A,(0210)
0116 INC A
0117 CP 12
0119 JP NC,0120
011C LD DE,0100
011F LD HL,(05C3)
0122 ADD HL,DE
0123 LD (05C3),HL
0126 JP 010D
0129 XOR A
012A LD (0210),A
012D LD A,(020B)
0130 INC A
0131 CP 0B
0133 JP NC,0000
0136 LD (020B),A
0139 JP 0110
013C

```

5A0
6D1

#

LOGON PARAMETERS==> TRACK 2 SECTOR 2 DRIVE A DENS=40(O/S)

COMMAND==>P LIST DEVICE ON
COMMAND==>Q LIST DEVICE OFF
COMMAND==>RC

DISCO "HOT"

LOGON PARAMETERS==> TRACK 0 SECTOR 0 DRIVE A DENS=40(C/S)

COMMAND==>RM

LOGON PARAMETERS--> TRACK 0 SECTOR 1 DRIVE A DENS=40(0/S)

COMMAND==>↑Q LIST DEVICE OFF
COMMAND==>RC

LOGON PARAMETERS==> TRACK 0 SECTOR 16 DRIVE A DENS=40(O/S)

[illegible]

COMMAND==>RN

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 17 DRIVE A DENS=40(0/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	64	74	78	74	22	CC	22	73	22	0D	00	28	02	00	E2	0D	DTXT"."S"..(.....
10	EA	6D	61	78	74	3D	36	0D	00	14	12	00	FD	6D	65	6D	.MAXT=6.....MEM
20	73	74	61	72	74	2D	31	0E	00	00	01	00	00	0D	00	1E	START-1.....
30	37	00	F1	62	75	66	66	73	74	61	72	74	3D	BE	32	33	7..BUFFSTART=.23
40	37	33	30	0E	00	00	B2	5C	00	2B	32	35	36	0E	00	00	730....\..+256...
50	00	01	00	2A	BE	32	33	37	33	31	0E	00	00	B3	5C	00	...*.23731....\.
60	2B	31	0E	00	00	01	00	00	0D	00	28	27	00	ED	38	36	+1.....('..86
70	35	30	0E	00	00	CA	21	00	3A	F1	62	6F	6F	74	73	74	50....!...BOOTST

COMMAND==>↑Q LIST DEVICE OFF

COMMAND==>RC

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 20 DRIVE A DENS=40(0/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	0D	0D	0D	20	20	20	20	54	68	69	73	20	20	76	65	72	... THIS VER
10	73	69	6F	6E	20	20	6F	66	20	20	74	68	65	20	20	64	SION OF THE D
20	69	73	63	0D	6F	70	65	72	61	74	69	6E	67	20	73	79	ISC.OPERATING SY
30	73	74	65	6D	20	68	61	73	20	61	20	6E	75	6D	62	65	STEM HAS A NUMBE
40	72	20	6F	66	0D	65	78	74	65	6E	73	69	6F	6E	73	20	R OF.EXTENSIONS
50	77	68	69	63	68	20	69	6D	70	72	6F	76	65	20	69	74	WHICH IMPROVE IT
60	73	0D	63	6F	6D	70	61	74	69	62	69	6C	69	74	79	20	S.COMPATIBILITY
70	77	69	74	68	20	74	68	65	20	6D	69	63	72	6F	2D	0D	WITH THE MICRO-.

COMMAND==>RN

FILE PARAMETERS==> NO FILE CURRENTLY OPEN

LOGON PARAMETERS==> TRACK 0 SECTOR 21 DRIVE A DENS=40(0/S)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
00	64	72	69	76	65	20	73	79	73	74	65	6D	2E	20	54	68	DRIVE SYSTEM. TH
10	65	73	65	20	65	78	74	65	6E	73	69	6F	6E	73	0D	61	ESE EXTENSIONS.A
20	72	65	20	64	65	73	63	72	69	62	65	64	20	62	65	6C	RE DESCRIBED BEL
30	6F	77	2E	20	0D	0D	0D	20	20	20	20	46	6F	72	20	4C	OW. ... FOR L
40	4F	41	44	2A	20	61	6E	64	20	53	41	56	45	2A	20	61	OAD* AND SAVE* A
50	6C	6C	20	6F	66	0D	74	68	65	20	75	73	75	61	6C	20	LL OF.THE USUAL
60	63	61	73	73	65	74	74	65	2F	6D	69	63	72	6F	64	72	CASSETTE/MICRODR
70	69	76	65	0D	6F	70	74	69	6F	6E	73	20	61	72	65	20	IVE.OPTIONS ARE

COMMAND==>↑Q LIST DEVICE OFF

LETTURA
TRACCE
OPUS
DOS

RDDSK #L100 13B
0100 JP F000
0103 LD HL,0700
0106 LD (0503),HL
0109 XOR A
010A LD (020B),A
010D LD (0210),A
0110 CALL 0200
0113 LD DE,0100
0116 LD HL,(0503)
0119 ADD HL,DE
011A LD (0503),HL
011D LD A,(0210)
0120 INC A
0121 CP 12
0123 JP NC,0120
0126 JP 010D
0129 XOR A
012A LD (0210),A
012D LD A,(020B)
0130 INC A
0131 CP 08
0133 JP NC,0000
0136 LD (020B),A
0139 JP 0110
013C

DANDO, IN MONITOR, G103
NELLE CONDIZIONI PREESISTENTE
DAL LISTATO A FRANCO, SI HA
LA LETTURA DELLE TRACCE
DA 00 A 0AH (10 DECIM) DEL
DISCO OPUS. IL BUFFER
DI MEMORIA USATO INIZIA A
700H.

#L200 21C
0200 LD A,80
0202 LD (0051),A
0205 LD A,00
0207 LD (DD40),A
020A LD A,00
020C LD (DD41),A
020F LD A,00
0211 LD (DD43),A
0214 LD A,03
0216 LD (0050),A
0219 CALL 05A0
021C RET
021D

CODICE DISCO (5^a/D.D.)

DRWE

TRACCE 4

SETTONE - 1 (20, FFH)

NO TENTATIVI LETTURA

← SOSTITUENDO 05AAH A 05APH
SI HA LA SCRITTURA INVECE
DELLA LETTURA.

#L5A0 6D1
05A0 CALL 061D
05A3 LD A,(0047)
05A6 SET 0,A
05A8 JR 08
05AA CALL 061D
05AD LD A,(0047)
05B0 RES 0,A
05B2 RES 7,A
05B4 LD (0047),A
05B7 LD A,(0050)
05BA LD B,A
05BB PUSH BC
05BC CALL 0673
05BF POP BC
05C0 JR NZ,54
05C2 LD HL,0700
05C5 PUSH BC
05C6 LD BC,00D3
05C9 LD A,(0047)
05CC BIT 0,A
05CE JR 7,11
05D0 CALL F83F
05D3 LD A,88
05D5 CALL F021

← MONITOR 5.0

← MONITOR 5.0

05D8	INIR
05DA	NOP
05DB	NOP
05DC	NOP
05DD	NOP
05DE	NOP
05DF	JR 0F
05E1	CALL F83F
05E4	LD A,A8
05E6	CALL F021
05E9	OTIR
05EB	NOP
05EC	NOP
05ED	NOP
05EE	NOP
05EF	NOP
05F0	CALL F842
05F3	CALL F01E
05F6	POP BC
05F7	AND 1F
05F9	JR Z,1B
05FB	NOP
05FC	NOP
05FD	NOP
05FE	DEC B
05FF	JP NZ,05BB
0602	LD A,(0047)
0605	BIT 7,A
0607	JR NZ,0D
0609	SET 7,A
060B	LD (0047),A
060E	CALL 064A
0611	JR NZ,03
0613	JP 05B7
0616	LD (DD4C),A
0619	XOR A
061A	OUT D6,A
061C	RET
061D	PUSH AF
061E	PUSH HL
061F	LD A,(DD43)
0622	INC A
0623	LD (DD51),A
0626	LD HL,0051
0629	LD A,(DD48)
062C	ADD A,L
062D	LD L,A
062E	XOR A
062F	BIT 4,(HL)
0631	LD A,(DD41)
0634	JR Z,02
0636	SRL A
0638	LD (DD50),A
063B	LD A,(HL)
063C	RES 4,A
063E	JR NC,02
0640	SET 4,A
0642	OUT D6,A
0644	LD (004E),A
0647	POP HL
0648	POP AF
0649	RET
064A	LD A,(DD40)
064D	CALL F04B
0650	OR 00
0652	CALL F021
0655	CALL F01E

```

0658 CPL
0659 AND 04
065B PUSH AF
065C LD A,(004E)
065F OUT D6,A
0661 CALL 0668
0664 LD (HL),00
0666 POP AF
0667 RET
0668 PUSH AF
0669 LD HL,004A
066C LD A,(DD40)
066F ADD A,L
0670 LD L,A
0671 POP AF
0672 RET
0673 PUSH BC
0674 LD B,03
0676 CALL 0668
0679 LD A,(HL)
067A CP FF
067C JR NZ,06
067E CALL 064A
0681 JR NZ,4B
0683 XOR A
0684 OUT D1,A
0686 LD C,A
0687 LD A,(DD51)
068A OUT D2,A
068C LD A,(DD50)
068F OUT D7,A
0691 CP C
0692 LD C,00
0694 JR Z,02
0696 LD C,04
0698 LD A,(DD40)
069B CALL F04B
069E OR 10
06A0 OR C
06A1 CALL F021
06A4 CALL F01E
06A7 AND 18
06A9 PUSH AF
06AA LD A,(004E)
06AD OUT D6,A
06AF POP AF
06B0 JR Z,0B
06B2 CALL 064A
06B5 JR NZ,17
06B7 DJNZ CA
06B9 LD A,83
06BB JR 11
06BD PUSH AF
06BE IN A,D1
06C0 LD (HL),A
06C1 BIT 2,C
06C3 JR Z,08
06C5 LD BC,1B58
06C8 DEC BC
06C9 LD A,B
06CA OR C
06CB JR NZ,FB
06CD POP AF
06CE POP BC
06CF BIT 7,A
06D1 RET
06D2

```


DISASSEMBLING ROM SPECTRUM

LUNOME22A 4000

START ADDR. 0

OFFSET 109

BYTES: 13-17

25-27

2B-2F

5F-65

95-28D

3F9-406 ← CHECK 1DE9-1DE9

439-43A

43F-440

449-457

46D-4C1

941-9F3

A11-A22

FA0-FAB

1391-1354

15AF-15C3

1505-15D3

162D-1633

1716-171B

1737-1738

177A-1780

1A48-1B16

1C01-1C0C

1C8B-1C8B

1CEB-1CEC

1CEF-1CEF

10F7-10F8

1D14-1D15

1D17-1D1C

1D0C-1D01

1DD9-1DD9

1DD3-1DE8

1F37-1F39

21CF-21CF

21D5-21D5

232E-24B6

24FA-24FA

2596-25AE

25F8-262F

2795-27BC

2813-2813

2CCF-2CEA

2D3B-2D7E

2DA2-2E55

2EC0-2ECE

2F2F-2F36

32C5-335C

344D-3468

36A1-3F7F


```

10 LET MEMSTART=PEEK 23675+256*PEEK 23676-6*18*256-256-600: REM MAXT=6
20 CLEAR MEMSTART-1:PEEK 23676-6*18*256-256-600: REM MAXT=6
30 LET BUFFSTART=PEEK 23730+256*PEEK 23731+1
40 GO SUB 8650: LET BOOTSTR=CODESTART+CODELEN
50 LOAD *1:FS CODE CODESTART:LOAD *1:"BOOTSTR"CODE CODESTART+CODELEN
60 LET DANDS=CODESTART: LET TRACK=CODESTART+1: LET STARTBUFF=CODESTART
+2: LET INITBUFF=CODESTART+4
70 LET WRITEBOOT=INITBUFF+3: LET RESTORE=WRITEBOOT+3: LET WRITET=RESTO
RE+3: LET STEPIN=WRITET+3
80 LET WRITEM=STEPIN+3: LET READM=WRITEM+3: LET ENQM=READM+3
90 LET MAXT=6: LET MAXSECT=MAXT*18: DIM C$(16): LET DRNO=1: GO SUB 830
0: REM GET DEFAULT VALUES
100 GO SUB 9000 : REM DISPLAY TITLE
110 GO SUB 9800 : REM DISPLAY MENU
120 GO SUB 9700 : REM GET A KEY
140 IF IS<>"1" AND IS<>"2" AND IS<>"3" AND IS<>"4" THEN GO TO 120
150 LET OPTION=VAL IS
160 GO SUB 200+(OPTION-1)*1000
170 GO TO 110
200 CLS
210 PRINT AT 1,0:"DISC FORMATTER"
220 PRINT AT 2,0:"=====
240 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
250 GO SUB 9700
260 IF IS<>"1" AND IS<>"2" THEN GO TO 250
270 PRINT AT 6,28:IS: LET DRNO=VAL IS
276 PRINT AT 8,3:"AT PRESENT THE SYSTEM IS SET      FOR ";: IF SIDES=1 TH
EN PRINT "SINGLE ";
270 IF SIDES=2 THEN PRINT "DOUBLE ";
282 PRINT "SIDED ";STR$ NOTRACKS;" TRACK      DRIVES.": PRINT AT 12,3;
"DO YOU WISH TO CHANGE THIS      CONFIGURATION (Y OR N)? ";
285 GO SUB 9700: IF IS<>"Y" AND IS<>"N" THEN GO TO 285
286 PRINT AT 12,0:"
"
288 IF IS="N" THEN GO TO 440
291 PRINT AT 8,3:"
"
300 PRINT AT 8,5:"IS THE DRIVE SINGLE OR"
310 PRINT AT 9,5:"DOUBLE SIDED (S OR D)?"
320 GO SUB 9700
330 IF IS<>"S" AND IS<>"D" THEN GO TO 320
340 PRINT AT 9,28:IS
350 IF IS="S" THEN LET SIDES=1
360 IF IS="D" THEN LET SIDES=2
370 PRINT AT 11,5:"DOES THE DRIVE HAVE 40"
380 PRINT AT 12,5:"OR 80 TRACKS (F OR E)?"
390 GO SUB 9700
400 IF IS<>"F" AND IS<>"E" THEN GO TO 390
410 IF IS="F" THEN LET NOTRACKS=40
420 IF IS="E" THEN LET NOTRACKS=80
430 PRINT AT 12,28:NOTRACKS
440 INPUT "DISC TITLE ";TS
450 IF LEN TS>10 THEN PRINT AT 20,0:"TITLE TOO LONG, PLEASE REENTER": P
AUSE 30: PRINT AT 20,0:"
": GO TO 440
455 IF TS="" THEN LET TS=" "
460 PRINT AT 14,5:"DISC TITLE: ";TS
470 PRINT AT 18,3:"ARE YOU SURE THAT YOU WISH TO": PRINT AT 19,3:"FORMA
T THE DISC (Y OR N)?"
480 GO SUB 9700
490 IF IS<>"Y" AND IS<>"N" THEN GO TO 480
500 IF IS="N" THEN RETURN
510 CLS : PRINT AT 1,8:"FORMATTING DISC": PRINT AT 2,8:"=====
": PRINT : PRINT
530 GO SUB 8750: RANDOMIZE USR INITBUFF
550 LET SDS=SIDES-1: POKE DANDS,DRNO
582 DATA 0,7,14,3,10,17,6,13,2,9,16,5,12,1,8,15,4,11
585 FOR S=0 TO SDS: INK 4*S: PRINT AT 3,0;"SIDE ";S: RESTORE : LET BC=B

```



```

UFFSTART+97: FOR C=0 TO 17: READ C1: POKE BC+2, C1: POKE BC+S, 0: LET BC=BC+334: NEXT
C:334: NEXT C: POKE DANDS, DRNO+16*S: RANDOMIZE USR RESTORE
500 FOR T=0 TO NOTRACKS-1
620 LET BC=BUFFSTART+97: FOR C=0 TO 17: POKE BC,T: LET BC=BC+334: NEXT
C: POKE STARTBUFF+1, INT (BUFFSTART/256): POKE STARTBUFF, BUFFSTART-256*PE
EK (STARTBUFF+1): RANDOMIZE USR WRITET
640 IF T<10 THEN PRINT "0";
660 PRINT STR$ T: " ": IF T<NOTRACKS-1 THEN RANDOMIZE USR STEPIN
670 NEXT T: NEXT S: INK 0
690 LET S=1: REM SET SIDE
700 GO SUB 8000
710 POKE BOOTSTR+2, NOTRACKS
720 POKE BOOTSTR+3, 18
730 POKE BOOTSTR+4, 64+(SIDES-1)*16
740 RANDOMIZE USR WRITEBOOT
880 FORMAT "M"; DRNO; TS
890 PRINT AT 6,T/8,9:"DISC FORMATTED"
950 PAUSE 160
960 RETURN
1200 CLS
1210 PRINT AT 1,10:"DISC BACKUP"
1220 PRINT AT 2,10:"=====
1230 PRINT AT 6,3:"SOURCE DRIVE (1 OR 2)?"
1240 GO SUB 9700
1250 IF IS<>"1" AND IS<>"2" THEN GO TO 1240
1260 PRINT AT 6,26;IS
1270 LET SDRNO=VAL IS
1280 PRINT AT 8,3:"DESTINATION DRIVE (1 OR 2)?"
1290 GO SUB 9700
1300 IF IS<>"1" AND IS<>"2" THEN GO TO 1290
1310 PRINT AT 8,31;IS
1320 LET DDRNO=VAL IS
1330 IF SDRNO=DDRNO THEN GO SUB 8000
1340 IF SDRNO<>DDRNO THEN GO SUB 7000
1350 RETURN
2200 CLS
2210 PRINT AT 1,9:"COMPACT A DISC"
2220 PRINT AT 2,9:"=====
2230 PRINT AT 6,5:"WHICH DRIVE (1 OR 2)?"
2240 GO SUB 9700
2250 IF IS<>"1" AND IS<>"2" THEN GO TO 2240
2260 PRINT AT 6,27;IS
2270 LET DRNO=VAL IS
2280 PRINT
2300 GO SUB 6000
2330 RETURN
3200 PRINT USR 0
3210 STOP
6000 OPEN #4:" CAT ";DRNO:IN
6010 OPEN #5:" CAT ";DRNO:OUT
6015 OPEN #6:" CAT ";DRNO: PRINT #6:: LET IX=PEEK 23633+256*PEEK 23634:
POKE IX+18,255: POKE IX+19,255: POKE IX+30,PEEK (IX+8): POKE IX+31,PEEK
(IX+9)
6020 LET NEXTBLK=0: LET ERROR=0
6030 GO SUB 9000: REM GET A CATALOGUE ENTRY INTO C$
6040 LET FIRSTBLK=CODE C$(3)+256*CODE C$(4)
6050 LET LASTBLK=CODE C$(5)+256*CODE C$(6)
6060 IF LASTBLK=65535 THEN GO SUB 9050: GO TO 6130
6065 INPUT : PRINT TAB 7;C$(7 TO 16)
6070 IF FIRSTBLK=NEXTBLK THEN GO SUB 9400: GO TO 6100
6080 IF FIRSTBLK>NEXTBLK THEN GO SUB 9500: GO TO 6100
6090 LET ERROR=1: REM WE SHOULD NOT GET HERE
6100 IF ERROR=0 THEN GO TO 6030
6110 PRINT : PRINT TAB 5;"ERROR WHEN COMPACTING THE DISC"
6120 GO TO 6140
6130 PRINT : PRINT TAB 5;"DISC COMPACTED"
6140 CLOSE #4
6150 CLOSE #5
6160 CLOSE #6
6170 PAUSE 160

```



```
6005 REM BACKUP WITH SEPARATE DRIVES
7000 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO: PRINT AT 17,0;"PUT THE DESTINATION DISC INTO": PRINT "DRIVE NUMBER "
:DDRNO
7010 GO SUB 0750
7020 REM GET SOURCE AND DESTINATION TRACKS AND SIDES
7030 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
7035 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
7040 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
PAUSE 80: RETURN
7050 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
7055 REM READ TRACKS
7060 GO SUB 8750: GO SUB 9100
7110 LET SAVESS=S: LET SAVEST=T: LET S=SAVEDS: LET T=SAVEDT
7120 GO SUB 8750: GO SUB 9200
7130 IF T=DT THEN GO TO 7190
7170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVESS: LET T=SAVEST
7180 GO TO 7060
7190 PAUSE 80
7200 RETURN
8000 GO SUB 9300: REM INSERT SOURCE DISC
8001 LET DRNO=SDRNO: GO SUB 8300: LET ST=NOTRACKS: LET SS=SIDES
8002 REM ST AND SS
8005 REM GET DESTINATION TRACKS AND SIDES
8010 GO SUB 9340: REM INSERT DESTINATION DISC
8014 LET DRNO=DDRNO: GO SUB 8300: LET DT=NOTRACKS: LET DS=SIDES
8015 REM DT AND DS
8020 REM
8030 IF DT<>ST OR DS<>SS THEN PRINT AT 20,0;"INCOMPATIBLE DISC FORMATS":
PAUSE 80: RETURN
8035 REM
8040 LET T=0: LET S=1: LET SAVEDT=0: LET SAVEDS=1
8045 REM READ TRACKS
8050 GO SUB 9300
8060 GO SUB 8750: GO SUB 9100
8070 REM SAVE VALUES
8080 LET SAVESS=S: LET SAVEST=T: LET S=SAVEDS: LET T=SAVEDT
8090 REM WRITE TRACKS
8100 GO SUB 9340
8120 GO SUB 8750: GO SUB 9200
8125 REM FINISHED?
8130 IF T=DT THEN GO TO 8190
8135 REM SAVE VALUES
8170 LET SAVEDS=S: LET SAVEDT=T: LET S=SAVESS: LET T=SAVEST
8175 REM REPEAT UNTIL FINISHED
8180 GO TO 8050
8190 PAUSE 80
8200 RETURN
8205 REM GET TRACKS AND SIDES
8300 OPEN #4;" CAT ";DRNO: CLOSE #4: POKE DANDS,DRNO
8310 RANDOMIZE USR ENQM
8320 LET NOTRACKS=PEEK TRACK
8330 LET SIDES=1+INT (PEEK (DANDS)/16)
8340 RETURN
8645 REM GET INFORMATION ON UTILCODE
8650 LET A$=STR$ USR 8
8660 LET F$="UTILCODE"+A$(LEN A$)
8670 OPEN #4:1;F$IN
8680 IF CODE INKEY$#4<>3 THEN PRINT "WRONG FILE TYPE: ";F$: STOP
8690 LET CODELEN=CODE INKEY$#4+256*CODE INKEY$#4
8700 LET CODESTART=CODE INKEY$#4+256*CODE INKEY$#4
8710 CLOSE #4
8720 RETURN
8745 REM SET UP BUFFER START FOR M/CODE
8750 POKE STARTBUFF+1,INT (BUFFSTART/256)
8760 POKE STARTBUFF,BUFFSTART-256*PEEK (STARTBUFF+1)
8770 RETURN
8895 REM SET UP DRIVE AND SIDE
8900 POKE DANDS,DRNO+16*(S-1)
```


8910 RETURN

4

8995 REM GET A CATALOGUE ENTRY INTO C\$

9000 FOR I=1 TO 16

9010 LET C\$(I)=INKEY\$#4

9020 NEXT I

9030 RETURN

9040 REM WRITE A CATALOGUE ENTRY FROM C\$

9050 FOR I=1 TO 16

9060 PRINT #5;C\$(I);

9070 NEXT I

9080 RETURN

9095 REM READ TRACKS

9100 FOR C=1 TO MAXT

9110 IF T=ST THEN GO TO 9160

9115 REM

9120 POKE TRACK,T: POKE DANDS,SDRNO+16*(S-1): RANDOMIZE USR READM

9125 REM

9130 IF S<SS THEN LET S=S+1: GO TO 9150

9140 IF S=SS THEN LET S=1: LET T=T+1

9150 NEXT C

9160 RETURN

9195 REM WRITE TRACKS

9200 FOR C=1 TO MAXT

9210 IF T=DT THEN GO TO 9260

9220 POKE TRACK,T: POKE DANDS,DDRNO+16*(S-1): RANDOMIZE USR WRITEM

9230 IF S<DS THEN LET S=S+1: GO TO 9250

9240 IF S=DS THEN LET S=1: LET T=T+1

9250 NEXT C

9260 RETURN

9295 REM INSERT SOURCE DISC

9300 PRINT AT 14,0;"PUT THE SOURCE DISC INTO DRIVE": PRINT "NUMBER ";SDR
NO

9310 GO SUB 9750

9320 PRINT AT 14,0;"

": PRINT "

9330 RETURN

9340 PRINT AT 14,0;"PUT THE DESTINATION DISC INTO ": PRINT "DRIVE NUMBER
":DDRNO

9350 GO SUB 9750

9360 PRINT AT 14,0;"

": PRINT "

9370 RETURN

9400 GO SUB 9050

9410 LET NEXTBLK=LASTBLK+1

9420 RETURN

9500 LET SAVENBLK=NEXTBLK

9510 FOR N=FIRSTBLK TO LASTBLK

9520 PRINT #6;TAB N;

9530 POKE IX+7,128+PEEK (IX+7): POKE IX+12,NEXTBLK-INT (NEXTBLK/256)*256
: POKE IX+13,INT (NEXTBLK/256)

9540 LET NEXTBLK=NEXTBLK+1

9550 NEXT N

9630 LET C\$(4)=CHR\$ INT (SAVENBLK/256)

9635 LET C\$(3)=CHR\$ (SAVENBLK-256*CODE C\$(4))

9640 LET C\$(6)=CHR\$ INT ((NEXTBLK-1)/256)

9645 LET C\$(5)=CHR\$ (NEXTBLK-1-256*CODE C\$(6))

9650 GO SUB 9050

9660 RETURN

9700 PAUSE 0

9710 LET I\$=INKEY\$

9720 RETURN

9730 REM WAIT FOR ANY KEY

9750 PRINT AT 21,4;"PRESS ANY KEY WHEN READY"

9760 PAUSE 0

9770 PRINT AT 21,4;"

"

9780 RETURN

9795 REM MENU

9800 CLS

9802 PRINT AT 0,0;"? ??"

9804 PRINT AT 1,0;"?????? ? ? ?"

5

```

0806 PRINT AT 2,0;"?  ????? ? ?"
0808 PRINT AT 3,0;"?  ?? ?? ?? ?"
0810 PRINT AT 4,0;"?  ??? ? ???"
0812 PRINT AT 5,0;"?????????????"
0814 PRINT AT 11,6;"(1) FORMAT A DISC"
0816 PRINT AT 13,6;"(2) BACKUP A DISC"
0818 PRINT AT 15,6;"(3) COMPACT A DISC"
0820 PRINT AT 17,6;"(4) FINISH"
0840 PRINT AT 20,4;"ENTER THE NUMBER OF THE"
0850 PRINT AT 21,4;"OPTION THAT YOU REQUIRE"
0860 RETURN
0870 REM
0895 REM TITLE SCREEN
9000 PRINT AT 4,0;"???           ?           ??????????"
9002 PRINT AT 5,0;"?  ?? ?? ?? ????? ?? ? ?? ??"
9004 PRINT AT 6,0;"?  ??? ????? ?? ????? ? ? ?? ? ??"
9006 PRINT AT 7,0;"?  ?? ?? ?? ????? ? ? ? ?? ?? ?"
9008 PRINT AT 8,0;"??? ?? ?? ?? ???  ?? ?? ?? ??"
9010 PRINT AT 9,0;"  ?"
9012 PRINT AT 11,6;"?  ?? ? ?? ? ?"
9014 PRINT AT 12,6;"?  ????? ?? ??? ?? ???"
9016 PRINT AT 13,6;"?  ?? ? ?? ? ? ??????"
9018 PRINT AT 14,6;"?  ????? ?? ??? ? ? ?"
9020 PRINT AT 15,6;"????? ?? ??? ??? ??"
9030 PAUSE 80
9040 RETURN

```


MA 0052Bφ

MD

HALT

B4
B8
BC
C0
C4

MA 0000 533φ

MD

HALT

34
38
3C
40
64

NEW START
BUFF START

} VALON CALCULAT

CODE LEN

} VALON WITH DA OSCO

CODE START

UTIL CODEL
FILE

BOOTSRT

FILE
POSTSTR

- 1 BANDS
- 1 TRACK
- 2 STARTBUF
- 3 INITBUF
- 3 WRITEBOOT
- 3 RSTORE
- 3 WRITER
- 3 STEPIN
- 3 WRITEM
- 3 READM
- 3 ENQM

MA

444) 52B
(2) 533

Per chiamare RR (D5Aφ) occorre

Mettere in DD43 il settore fisico richiesto --

(in DD51 viene coperto il settore + 1)

Mettere in DD40 il settore richiesto

Scrivere a 51 89H (5"/D.O.) o il valore voluto (esempio
secondo settore)

Mettere in DD41 la traccia voluta

Mettere in 50 il n° di testetivi

~~106~~

10B TRACCA

NO SETTORE

5C3 DYA BUT

4 SET = 1K

1 Traccia = 17 SET

4K + 1/4

10K

I 10 TRACCA

700 = 17 FF

1 1800 = 28 FF

2 900 = 39 FF

3 300 = 4 FF

4 500 = 5 FF

5 600 = 6 FF

6 700 = 7 FF

7 800 = 8 FF

8 900 = 9 FF

9 1000 = 10 FF

700
16 FF } 4K
1700 } 256

1000 10 FF
1500 15 FF
2000 20 FF

Prime 5 Tracce

da 700 a 18FF 0

= 11FF 4K 1/2

1900 a 2AFF 1

2800 a 3CFF 2

3800 a 4EFF 3 / ms a 4760

4700 a 50FF 4

6100 a 72FF 5

DISCO OPUS/POS

				TK/SEC
700 ÷ 8FF	RESERVATO	00 00	00 03	φφ - φ1
800 ÷ 9FF	READ ME	00 - φ4	00 - 04	↓
900 ÷ 10FF	READ DTX	00 05	00 14	<u>φ1 - φ3</u>
1000 ÷ 13FF	UTILITY	00 15	00 3B	01 - φ4 → 03 - 06
1400 ÷ 15FF	UTILCODE1	3C	3D	φ3 - φ4 → 03 - 08
1600 ÷ 17FF	BOOTSTR	3E	3F	03 - φ9 → 03 - 0A

1 1900/FF
2 400/FF
3 600/FF
4 800/FF

3 0 3000/FF
1 1 500/FF
2 2 700/FF
3 3 900/FF
4 4 1100/FF
5 5 1300/FF
6 6 1500/FF
7 7 1700/FF
8 8 1900/FF
9 9 2100/FF
A 10 2300/FF

README	00-04 / 08-04	4 / 4
READTXT	0205 / 08-14	5 / 20
UTILITY	04-15 / 08-3B	15 / 59
UTLCODE1	08-3C / 08-3D	60 / 61
BOOTSTR	083E / 083F	62 / 63

		START	(IDENTIFIC)	
X	SETT 0 - 2000 ÷ 2000	0	195 → 400	(160)
X	1	100	12AF	(1280)
X	2	200	C1C	(BF0)
X	3	300	58Z	(550)
X	4	400	16A0	(1670)
X	5	500	101B	(FE0)
X	6	600 -	97B	(950)
X	7	700 -	2E6	(230)
X	8	800 -	13FF	(1300)
X	9	900	D6D	(D40)
X	10	A00	6D8	(6A0)
X	11	B00	17F1	(17CA)
X	12	C00	115F	(1130)
X	13	D00	ACC	(AA0)
X	14	E00	43Z	(400)
X	15	2000	F	(1520)
X	16	3000	10	(E90)
X	17	3100	M	(7F0)

2187 → 6000

2208

100/1400
2100/31000

167/2159

18/05/14

989A/B163 → 100

19C9

SAVE 25 CTRACRA 08 etc

$$\begin{aligned} 0 + FF &= 94 \\ 1000 - 1FF &= 84 \end{aligned}$$

~~06E7~~ 6FF Tuth FF
 0700 E39

 1708 1865 $\rightarrow$ ~~mini FF~~

1866 1999 ASSii
 194A 19A9

1FF0

 ORG 1708 $\leftarrow$ LEN
 OFFS 2608 22A2

~~SPERIMENTARE~~

- SELEZIONE -

OTT/NOV 79

MULTIMETRO

DIGITALE

	200/	<u>49K</u>
OPUSKINI P2N		17/18
	TK SEC	21/22
24, A, M-	10/14	8/9
24, F, 15		
24, 138		
24, 138D →	13 o 18	
127 →	SEC	
181 →	TK	
196 →	MAXTRACK	