

REFUSNIK

Ce petit programme utilitaire est tout-à-fait étonnant... Il va vous permettre d'utiliser douze nouvelles commandes à incorporer dans vos programmes basic ; faire tourner des lettres sur elles-mêmes, écrire vos titres en relief, modifier les vitesses d'affichage etc... A saisir et à utiliser absolument (NDLR).

Chargement de la routine en langage machine

Tapez et sauvegardez le programme "Chargeur". Ceci fait, lorsque vous effectuerez un RUN, il va créer le programme binaire "REFUSNIK.BIN" sur la disquette (veillez donc avant le RUN à avoir une disquette formatée dans le lecteur). C'est ce programme principal qui contient les routines en langage machine lesquelles gèrent les nouvelles instructions.

L'adresse d'implantation est 36900, la longueur du fichier binaire de 1625 octets. Pour disposer des commandes de "REFUSNIK", il vous faudra donc incorporer au début de vos programmes un petit chargeur basic de la forme :

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MEMORY 36899 : LOAD
"REFUSNIK.BIN": CALL
37556
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Pour tester la puissance de cet utilitaire, il suffit de saisir le programme de démonstration et de le sauvegarder sous le nom de "Démon.bas". Une fois sauvegardé, faites RUN. Les commandes et exemples sont expliqués dans la démonstration ; toutefois, voici un résumé des différentes nouvelles commandes :

! RELIEF, < style d'écriture (1 à 6) >, < chaîne alpha. > .
! TELEX, < chaîne alphanum. >
! ROTATINO, < chaîne

alphanum. >
! ISON, < période du ton >, < période du bruit > .
! VITES, < vitesse d'affichage > .
! FAST, < écriture en mode 1 ou 2 > .
! SLOW
! PENG, < couleur de l'encre graphique > .
! PAPER, < couleur du fond graphique > .
! WINDOW, < numéros du canal >, < gauche >, < droit >, < haut >, < bas >, < chaîne alphanum.(facultatif) >
! DESK, < décor 1 >, < décor 2 >
! SUPER, < chaîne alphanum. >
Attention les yeux ! Tout vous devient permis, vos programmes prennent un "look" professionnel...
Nota : ! s'obtient par shift et @

Pascal LESENNE

```
10 SYMBOL 255,112,176,54,123,50,124 [2723]
,55,98
20 SYMBOL 254,12,4,48,28,24,24,56,1 [2137]
2
30 SYMBOL 253,48,24,13,22,54,54,54, [2149]
92
40 SYMBOL 252,39,78,218,218,210,227 [2671]
,126,60
50 SYMBOL 251,69,62,30,6,62,102,127 [1991]
,50
60 SYMBOL 250,22,59,27,27,27,30,24, [2414]
40
70 SYMBOL 249,8,24,62,24,24,24,58,1 [2199]
2
80 SYMBOL 248,103,102,54,30,54,102, [2043]
103
90 SYMBOL 247,254,140,44,60,44,140, [2356]
254
100 MODE 1:PAPER 0:PEN 1:INK 0,10:I [3367]
NK 1,26:BORDER 10
110 PRINT " CHARGEUR DE R"+CHR$(247 [2946]
)+"FUSNI"+CHR$(248):PRINT
120 PRINT " VERSION 2.986" [1722]
130 PRINT:PRINT STRING$(19,32)+"CRE [7389]
ATION DU "+CHR$(252)CHR$(251)CHR$(2
50)CHR$(249) " "CHR$(255)CHR$(254)CH
R$(253)CHR$(253)
140 V=1:I=200:VL=0 [1173]
150 FOR T=36900 TO 38526:READ A$:A= [3380]
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VAL("&"+A$):VL=VL+A$:POKE T,A
160 V=V+1:IF V=80 THEN I=I+10:V=0:R [10726]
EAD A$:IF A$<>HEX$(VL) THEN PRINT "
ERREUR EN LIGNE ";I:END ELSE VL=0:P
RINT "LIGNE";I ;"CORRECTE":PRINT
170 NEXT [350]
180 I=I+10:READ A$:IF A$<>HEX$(VL) [8507]
THEN PRINT "ERREUR EN LIGNE ";I:END
ELSE VL=0:PRINT "LIGNE";I ;"CORREC
TE"
190 SAVE"REFUSNIK",B,36900,1625 [2133]
200 [1671]
*****
*****
210 DATA CD,CC,BB,CD,CC,BB,CD,CC,BB [12324]
,C9,F5,CD,1A,BC,F1,E5,16,0,5F,CB,23
,CB,12,CB,23,CB,12,CB,23,CB,12,CB,2
3,CB,12,21,7B,96,19,EB,E1,1,FF,7,CD
,70,90,9,CD,70,90,9,CD,70,90,9,CD,7
0,90,9,CD,70,90,9,CD,70,90,9,CD,70,
90,9,CD,70,90,C9,1A,77,13,2806
220 DATA 23,1A,77,13,C9,11,7C,96,3E [12157]
,0,6,FF,C5,F5,CD,8D,90,F1,C1,3C,10,
F6,CD,8D,90,C9,D5,CD,A5,BB,6,4,CD,6
,B9,D1,F5,EB,6,8,1A,77,ED,6F,2B,77,
23,23,23,13,10,F4,EB,F1,CD,C,B9,C9,
F5,CD,78,BB,2D,25,25,CD,1A,BC,F1,E5
,CD,A5,BB,EB,6,4,E1,CD,6,B9,2952
```


230 DATA F5,1A,77,1,0,8,9,13,1A,77, [13140] ,21,3,94,FE,6,20,3,21,8,94,22,D,94,
9,13,1A,77,9,13,1A,77,9,13,1A,77,9,
13,1A,77,9,13,1A,77,9,13,1A,77,F1,C
D,C,B9,C9,32,EE,91,3E,20,CD,5A,BB,3
E,8,CD,5A,BB,3A,EE,91,32,EE,91,CD,4
6,91,FD,21,67,91,6,F,C5,3E,FF,CD,A5
,BB,44,4D,FD,5E,0,3E,9,1D4A
240 DATA BB,28,D,16,0,21,5E,91,19,7 [12464]
E,2,FD,23,3,18,EB,FD,23,CD,78,BB,3E
,FF,CD,5A,BB,CD,75,BB,C1,3A,F0,91,3
D,CD,24,90,0,FE,0,20,F7,10,C7,3A,EE
,91,CD,5A,BB,C9,F5,CD,A5,BB,F1,6,4,
CD,6,B9,F5,11,5F,91,1,8,0,ED,B0,F1,
CD,C,B9,C9,0,0,0,0,0,252C
250 DATA 0,0,0,0,1,2,3,4,5,6,7,8,9, [7170]
0,1,2,4,5,7,8,0,9,0,0,1,3,5,7,0,0,9
,0,0,0,3,6,0,0,0,9,0,0,0,6,3,0,0,0,
9,0,0,7,5,3,1,0,0,9,0,8,7,5,4,2,1,0
,9,8,7,6,5,4,3,2,1,9,0,8,7,5,10C
260 DATA 4,2,1,0,9,0,0,7,5,3,1,0,0, [8289]
9,0,0,0,6,3,0,0,0,9,0,0,0,3,6,0,0,0
,9,0,0,1,3,5,7,0,0,9,0,1,2,4,5,7,8,
0,9,1,2,3,4,5,6,7,8,9,52,0,5,0,F5,2
1,8,92,CD,AA,BC,F1,CD,5A,BB,2A,EF,9
1,2B,7C,B5,ACA
270 DATA FE,0,20,F9,C9,2,0,0,40,0,0 [10470]
,F,1,0,0,0,0,3A,11,92,FE,0,C0,3E,1,
32,11,92,2A,D4,BD,22,12,92,21,2E,90
,22,D4,BD,CD,78,90,C9,3A,11,92,FE,1
,C0,3E,0,32,11,92,2A,12,92,22,D4,BD
,C9,3A,11,92,FE,0,C0,3E,1,32,11,92,
2A,D4,BD,22,12,92,21,1BDC
280 DATA AD,90,22,D4,BD,C9,DD,66,1, [14693]
DD,6E,0,46,23,5E,23,56,EB,7E,23,C5,
E5,CD,EA,90,E1,C1,10,F5,C9,DD,66,1,
DD,6E,0,46,23,5E,23,56,EB,7E,23,C5,
E5,CD,F1,91,E1,C1,10,F5,C9,7B,FE,0,
28,A1,FE,1,28,82,FE,2,28,AB,C9,53,1
E,0,ED,53,EF,91,C9,FE,2,C0,DD,2A57
290 DATA 6E,2,DD,66,3,22,B,92,7B,32 [13090]
,D,92,C9,B0,92,BE,92,1,BE,92,21,B0,
92,CD,D1,BC,C9,E4,92,C3,89,92,C3,2F
,92,C3,59,92,C3,71,92,C3,97,92,C3,9
F,92,C3,21,93,C3,3B,93,C3,B6,94,C3,
BB,94,C3,C9,94,C3,58,96,46,41,53,D4
,53,4C,4F,D7,52,4F,54,41,54,49,4F,2
9AC
300 DATA CE,54,45,4C,45,D8,56,49,54 [11714]
,45,D3,53,4F,CE,53,55,50,45,D2,52,4
5,4C,49,45,C6,50,45,4E,C7,50,41,50,
45,52,C7,57,49,4E,44,4F,D7,44,45,53
,CB,0,DD,66,1,DD,6E,0,46,23,5E,23,5
6,EB,7E,23,C5,E5,CD,86,94,E1,C1,10,
F5,C3,7E,93,DD,7E,2,21,E1,93,FE,2,2
3D2
310 DATA 20,3,21,EA,93,FE,3,20,3,21 [12169]
,FB,93,FE,4,20,3,21,FE,93,FE,5,20,3

,21,3,94,FE,6,20,3,21,8,94,22,D,94,
DD,66,1,DD,6E,0,46,23,5E,23,56,EB,7
E,23,C5,E5,CD,88,93,E1,C1,10,F5,11,
0,0,21,0,0,CD,C9,BB,C9,32,EE,91,3E,
1,CD,9F,BB,3E,3,CD,1FF5
320 DATA 59,BC,CD,32,94,CD,C9,BB,FD [12184]
,2A,D,94,FD,46,FF,FD,5E,0,FD,6E,1,1
6,0,26,0,3A,C,94,FD,23,FD,23,FE,0,C
C,DB,93,FE,1,CC,DD,93,C5,CD,C0,BB,3
A,EE,91,CD,FC,BB,C1,10,DB,3A,EE,91,
CD,5A,BB,3E,0,CD,9F,BB,3E,0,CD,59,B
C,C9,CB,23,CB,23,C9,4,1,4,2A1D
330 DATA 1,0,0,2,2,2,8,0,4,0,2,0,0, [9802]
1,4,1,0,2,4,2,2,2,0,1,0,6,2,2,4,3,6
,2,2,2,3,2,2,1,4,1,6,1,0,0,CB,25,CB
,14,CB,25,CB,14,CB,25,CB,14,CB,25,C
B,14,C9,CB,23,CB,12,1B,1B,C9,CB,3A,
CB,1B,13,C9,13,13,C9,1B,C9,CD,108F
340 DATA 11,BC,32,C,94,CD,78,BB,E5, [9898]
CD,87,BB,7B,FE,FF,20,D,3E,20,CD,5A,
BB,3E,8,CD,5A,BB,E1,2D,E5,CD,69,BB,
7A,3C,D1,44,19,BC,30,3,60,24,2C,E5,
3E,1A,95,6F,26,0,CD,F,94,EB,E1,6C,2
6,0,2D,CD,F,94,EB,2B,3A,C,94,2B,2B,
FE,0,CC,20,94,FE,2,CC,27,94,2421
350 DATA 1B,1B,C9,32,EE,91,CD,32,94 [11155]
,23,23,13,13,3A,C,94,FE,0,CC,2D,94,
FE,1,CC,30,94,CD,C9,BB,3A,EE,91,CD,
5A,BB,3E,2,CD,59,BC,3E,FF,CD,FC,BB,
3E,0,CD,59,BC,C9,7B,CD,DE,BB,C9,7B,
CD,E4,BB,C9,C2,C0,CF,D3,9F,CA,C8,C3
,C3,FE,6,20,B,3E,1,32,D7,95,DD,2B79
360 DATA 23,DD,23,18,8,FE,5,C0,3E,0 [11793]
,32,D7,95,DD,7E,8,CD,B4,BB,DD,7E,6,
DD,46,4,88,38,6,DD,66,4,57,18,4,67,
DD,56,4,DD,7E,2,DD,46,0,88,38,6,DD,
6E,0,5F,18,4,6F,DD,5E,0,15,1D,2D,25
,E5,D5,CD,66,BB,D1,E1,22,D3,95,ED,5
3,D5,95,26,0,3A,D4,95,2218
370 DATA 6F,CD,BA,95,2B,2B,22,CB,95 [14014]
,26,0,3A,D6,95,3C,6F,CD,BA,95,22,CD
,95,26,0,3A,D3,95,6F,CD,BA,95,EB,21
,90,1,ED,52,22,CF,95,26,0,3A,D5,95,
3C,6F,CD,BA,95,EB,21,90,1,ED,52,2B,
2B,22,D1,95,CD,E1,BB,F5,CD,93,BB,CD
,DE,BB,ED,5B,CB,95,2A,D1,95,CD,EA,2
A47
380 DATA BB,ED,5B,CD,95,2A,D1,95,CD [13219]
,F6,BB,ED,5B,CD,95,2A,CF,95,CD,F6,B
B,ED,5B,CB,95,2A,CF,95,CD,F6,BB,ED,
5B,CB,95,2A,D1,95,CD,F6,BB,CD,E7,BB
,F5,CD,99,BB,CD,E4,BB,3A,D7,95,FE,0
,C4,D8,95,F1,CD,E4,BB,F1,CD,DE,BB,C
D,6C,BB,C9,CB,25,CB,14,CB,25,CB,14,
CB,3633
390 DATA 25,CB,14,CB,25,CB,14,C9,4E [11654]
,0,20,2,40,1,1E,0,5,5,16,21,1,ED,5B

LISTING

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, CB, 95, 2A, CF, 95, CD, EA, BB, 11, 0, 0, 21,
12, 0, CD, F9, BB, ED, 5B, CB, 95, 2A, CD, 95,
ED, 52, EB, 21, 0, 0, CD, F9, BB, ED, 5B, CD, 9
5, 2A, CF, 95, CD, F6, BB, 2A, CF, 95, 11, 10,
0, 19, ED, 5B, CB, 95, 13, 13, CD, 2333
400 DATA C0, BB, 3A, D4, 95, 47, 3A, D6, 95 [12839]
, 90, 3C, 47, DD, 66, FF, DD, 6E, FE, 7E, 23, 5
E, 23, 56, EB, F5, C5, B8, 38, 1, 78, 47, 5, 7E
, 23, E5, C5, CD, FC, BB, C1, E1, 5, F2, 33, 96
, F1, C1, 4, BB, D8, 5, 90, 47, 5, 3E, 20, 23, E
5, C5, CD, FC, BB, C1, E1, 5, F2, 49, 96, C9, F
E, 2, C0, DD, 5E, 0, DD, 56, 2, 21, 0, 2A13
410 DATA C0, 6, 8, C5, 1, FF, 8, 7B, 77, 23, [3956]
B, 4, 1Q, FA, 7B, 47, 7A, 5F, 78, 57, C1, 10, E
C, C9, 0, 0, 0, 0, 9B9
420 [1671]
*****
*****
430 DATA 26, 0, 16, 11, 4, 5, 6, 7, 8, 9, 1, 2 [2601]
3, 0, 13, 2, 24
440 RESTORE 430 [781]
450 FOR T=0 TO 15: READ A: INK T, A: NE [2408]
AT T: BORDER 20
460 MODE 0 [507]
470 ORIGIN 0, 0, 0, 640, 0, 110: CLG 13 [977]
480 ORIGIN 0, 0, 0, 640, 400, 290: CLG 14 [848]
490 ORIGIN 0, 0, 0, 640, 0, 400 [860]
500 FOR T=-800 TO 1640 STEP 70: MOVE [4509]
320, 220: DRAW T, 0, 0: MOVE 320, 180: DR
AW T, 400: NEXT T
510 V=90: FOR T=1 TO 4: MOVE 0, 120-V: [5811]
DRAW 640, 120-V: MOVE 0, 282+V: DRAW 64
0, 282+V: V=V/2: NEXT T
520 [797]
530 CLS [91]
540 [797]
550 PEN 14: LOCATE 7, 10: PRINT "R"+CH [2992]
R$(247)+"FUSNI"+CHR$(248)
560 PEN 6: LOCATE 7, 13: PRINT "CREATI [2078]
ON"
570 LOCATE 10, 15: PRINT "DU" [995]
580 LOCATE 7, 17: PRINT CHR$(252)CHR$ [5993]
(251)CHR$(250)CHR$(249)" "CHR$(255)
CHR$(254)CHR$(253)CHR$(253)
590 LOCATE 1, 24 [728]
600 CALL &BB18: !BASIC [824]

80 RETURN [555]
90 DATA 62, 24, 50, 48, 125, 221, 110, 2, 2 [13948]
21, 102, 3, 6, 22, 126, 18, 19, 35, 16, 250, 5
8, 48, 125, 61, 254, 0, 40, 20, 50, 48, 125, 1
, 234, 7, 9, 62, 190, 188, 48, 2, 24, 226, 1, 8
0, 192, 9, 24, 220, 201, 0, 62, 24, 50, 48, 12
5, 221, 110, 2, 221, 102, 3, 6, 22, 26, 119, 1
9, 35, 16, 250, 58, 48, 125, 61, 254, 0, 40, 2
0, 50, 48
100 DATA 125, 1, 234, 7, 9, 62, 190, 188, 4 [2719]
8, 2, 24, 226, 1, 80, 192, 9, 24, 220, 201
110 FOR T=32000 TO 32096: READ A: POK [1958]
E T, A: NEXT T
120 MEMO=28000 [79]
130 SYMBOL 248, 103, 102, 54, 30, 54, 102 [2043]
, 103
140 SYMBOL 247, 254, 140, 44, 60, 44, 140 [2356]
, 254
150 SYMBOL 255, 112, 176, 54, 123, 50, 12 [2723]
4, 55, 98
160 SYMBOL 254, 12, 4, 48, 28, 24, 24, 56, [2137]
12
170 SYMBOL 253, 48, 24, 13, 22, 54, 54, 54 [2149]
, 92
180 SYMBOL 252, 39, 78, 218, 218, 210, 22 [2671]
7, 126, 60
190 SYMBOL 251, 69, 62, 30, 6, 62, 102, 12 [1991]
7, 50
200 SYMBOL 250, 22, 59, 27, 27, 27, 30, 24 [2414]
, 40
210 SYMBOL 249, 8, 24, 62, 24, 24, 24, 58, [2199]
12
220 MODE 1: INK 0, 0: INK 3, 0: INK 1, 21 [2877]
: INK 2, 0: BORDER 0
230 REF$="R"+CHR$(247)+"FUSNI"+CHR$ [1242]
(248)
240 CAP$=CHR$(252)+CHR$(251)+CHR$(2 [5313]
50)+CHR$(249)+" "+CHR$(255)+CHR$(25
4)+CHR$(253)+CHR$(253)
250 PEN 2: PRINT REF$+" -DES FENETRE [14460]
S A LA MACINTOSH -AUGMEN
TATION DE LA VITESSE D
'AFFICHAGE DE PLUS DE 50%
-6 ECRITURES DIFFERENTES
-L'ANIMATION GRAPHIQUE ET
SONORE DE VOS TEXTES"
260 PRINT " -LA CREATION DE [2255]
NOUVELLE POLICE"
270 PEN 3 [547]
280 EVERY 30 GOSUB 420 [554]
290 LOCATE 5, 21: PRINT CAP$ [1555]
300 DIM I(600, 1), h(600, 1) [1075]
310 FOR G=0 TO 8: FOR t=64 TO 78 STE [3283]
P 2: FOR h=64 TO 78 STEP 2
320 IF TEST(T+G*16, H)=0 THEN 360 [1042]
330 L(I, 0)=T+(G*16): H(I, 0)=H: L1=INT [5147]
(RND(24)*24)+L(I, 0)-11: H1=INT(RND(2

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4)*24)+H(I,0)-11
340 L(I,1)=(L(I,0)-L1)/5:H(I,1)=(H( [2320]
I,0)-H1)/5
350 I=I+1 [444]
360 NEXT H,T,G [570]
370 WINDOW 1,20,20,25:CLS [1224]
380 FOR V=5 TO 0 STEP -1:FOR T=0 TO [2216]
I-1
390 PLOT L(T,0)+L(T,1)*V,H(T,0)+H(T [2950]
,1)*V,3
400 NEXT T:CALL 32000,192*256+1526, [3628]
memo:memo=memo+530:CLS:NEXT V
410 GOTO 430 [462]
420 PRINT CHR$(23)+CHR$(1);:MOVE 0, [4790]
400-B:DRAW 640,400-B,3:B=B+2:PRINT
CHR$(23)+CHR$(0);:RETURN
430 DI [84]
440 BORDER 0:INK 0,0:MODE 1:RESTORE [3505]
610:INK 1,24:INK 3,6,15
450 PEN 1:LOCATE 7,12:PRINT REF$+" [3284]
EST UNE PRODUCTION"
460 LOCATE 12,15:PRINT " DE LA SOCI [1783]
ETE "
470 vi=1714-400-10 [1304]
480 memo=31180 [336]
490 I=0:FOR t=MEMO-530 TO 28000 STE [1755]
P -530
500 GOSUB 40 [890]
510 FOR G=1 TO 50:NEXT [1354]
520 CALL 32049,192*256+vi,t:NEXT T [2024]
530 I=22:FOR t=28000 TO MEMO-530 ST [2184]
EP 530
540 FOR G=1 TO 50:NEXT [1354]
550 GOSUB 30 [852]
560 CALL 32049,192*256+vi,t:NEXT T [2024]
570 CALL 32049,192*256+vi,MEMO-530 [1472]
580 READ a:IF a=0 THEN 610 [1425]
590 FOR t=1 TO a:NEXT t [2124]
600 GOTO 490 [371]
610 DATA 900,900,1,1,0 [443]
620 IF PEEK(36900)=205 THEN 640 [1194]
630 LOAD"REFUSNIK.BIN":CALL 37556 [1876]
640 FOR t=1 TO 1500:NEXT t:MODE 0:P [8069]
APER 0:PEN 1:INK 0,0:BORDER 0:INK 1
,20:LOCATE 7,8:A$="RELIEF ":!VITES
,70:!ROTATION,@A$
650 INK 2,5:INK 3,6:BORDER 1:INK 0, [2713]
1:INK 1,24
660 V$=CHR$(34):SYMBOL 254,0,0,255, [2352]
0,0,255,0,0
670 MODE 1 [506]
680 PAPER 0 [816]
690 !WINDOW,0,2,39,2,14 [1538]
700 PEN 1 [549]
710 LOCATE 1,2 [614]
720 FOR T=1 TO 6 [589]
730 A$=" RELIEF EN MODE "+STR$(T) [1254]
740 B$=" !RELIEF,"+MID$(STR$(T),2)+ [1807]
",@A$"
750 !PENG,2;!RELIEF,T,@A$:PRINT" [2539]
"
760 !PENG,3;!RELIEF,T,@B$ [1476]
770 PRINT:PRINT [743]
780 NEXT T [360]
790 PEN 3 [547]
800 !WINDOW,0,4,36,17,20:PRINT [2016]
810 PEN 1 [549]
820 PRINT "!RELIEF,< nombre entier [6925]
(1 a 6) > ,< @ chaine alphan
>"
830 GOSUB 970 [842]
840 MODE 1:PAPER 0:INK 2,11 [1736]
850 PRINT:PEN 3;!PENG,1 [1776]
860 LOCATE 8,2:a$=" EXEMPLE":!RELIE [2253]
F,2,@A$
870 A$=STRING$(3,254)+"LISTING BASI [3791]
C"+STRING$(3,254)
880 PEN 2;!WINDOW,0,2,20,7,18,@A$:W [2710]
INDOW #0,3,19,7,18:PEN 1
890 PRINT:PRINT "LIST":PRINT "10 PE [5462]
N 1;!PENG,3":PRINT "20 A$="+V$+"BON
JOUR"+V$:PRINT "30 !RELIEF,2,@A$":P
RINT "40 END"
900 PRINT:PRINT "RUN" [974]
910 PRINT:!PENG,3:A$="BONJOUR":!REL [3051]
IEF,2,@A$
920 PRINT:PRINT "Ready" [1336]
930 M$=STRING$(4,254)+"COMMENTAIRE" [2297]
+STRING$(4,254)
940 !WINDOW,0,22,39,3,12,@M$ [1205]
950 PEN 3:PRINT:PRINT " PEN FIXE C [7528]
OULEUR D'ECRITURE":PRINT:PRINT
"!PENG FIXE COULEUR DE L'OMBR
E":PRINT:PRINT" FONCTIONNE DANS L
ES MODES 0 ET 1"
960 GOSUB 970:GOTO 990 [1433]
970 PAPER 2:PEN 1;!WINDOW,0,8,32,22 [6035]
,24:PRINT:PRINT " <ESPACE> POUR CON
TINUER":PAPER 0
980 CALL &BB18:RETURN [1296]
990 MODE 0:INK 0,2:BORDER 2:PEN 1 [2371]
1000 M1$="ROTATION":M2$="TELEX":M3$ [2366]
="SON":M4$="VITES":!VITES,30
1010 !SON,200,0:PAPER 0:INK 1,1:LOC [11595]
ATE 6,8:!TELEX,@M1$:!SON,100,0:LOCA
TE 7,10:!TELEX,@M2$:!SON,50,0:LOCAT
E 8,12:!TELEX,@M3$:LOCATE 7,14:!SON
,30,0:!TELEX,@M4$
1020 FOR T=1 TO 900:NEXT [1393]
1030 MODE 1:BORDER 0:INK 0,0:INK 1, [2253]
6:INK 2,11:INK 3,21
1040 !WINDOW,0,7,32,2,4:PEN 2;!PENG [4558]
,1:PRINT:M$=" TELEX UNE LETRE UN S
ON":!RELIEF,3,@M$

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LISTING

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1050 M$=STRING$(6,254)+"EXEMPLE"+ST [3646]
RING$(5,254):PEN 2:WINDOW,0,2,19,7
,24,@M$
1060 M1$="REGLER LA VITESSE D'A [6710]
FFICHAGE":M2$="LA HAUTEUR DE LA
NOTE":M3$="LA FREQUENCE DU
BRUIT"
1070 PEN 1 [549]
1080 PRINT [361]
1090 !SON,32,0:!VITES,10:!TELEX,@M1 [3268]
$:PRINT
1100 M$="!TELEX,@A$" [524]
1110 FOR T=16 TO 32 STEP 8:PEN 3:!V [4386]
ITES,T:!TELEX,@M$:PRINT:NEXT T
1120 FOR T=1 TO 200:NEXT:PEN 1 [1544]
1130 !VITES,26:!SON,60,0:!TELEX,@M2 [2192]
$:PRINT
1140 FOR T=64 TO 192 STEP 64:PEN 3: [4511]
!SON,T,0:!TELEX,@M$:PRINT:NEXT T
1150 PEN 1:FOR T=1 TO 200:NEXT [1266]
1160 !VITES,32:!SON,300,31:!TELEX,@ [1883]
M3$:PRINT
1170 FOR T=1 TO 31 STEP 15:PEN 3:!S [2838]
ON,0,T:!TELEX,@M$:PRINT:NEXT T
1180 !WINDOW,0,18,39,9,18 [1383]
1190 PRINT:PRINT "!VITES,<vitesse>" [8387]
:PRINT:PRINT"!SON,<periode du ton>
,<periode du bruit>":PRINT"!TELE
X,<chain alphan>"
1200 GOSUB 970 [842]
1210 MODE 1:!VITES,5:!DESK,&X1010,& [3389]
X101
1220 !WINDOW,0,10,30,2,4:PEN 3:M$=" [5771]
ANIMER VOS TEXTES":PRINT:!ROTATIO
N,@M$
1230 PEN 1:!WINDOW,0,2,38,6,12 [2081]
1240 !PENG,3:PEN 2:PRINT:M$=" REG [13450]
LER LA VITESSE DE ROTATION":!VITES,
1:!ROTATION,@M$:PRINT:PRINT:M$="!VI
TES,30 ":PEN 1:!RELIEF,2,@M$:PEN 2:
PRINT " ";MV$="!ROTATION,@A$":
!VITES,30:!ROTATION,@MV$
1250 PRINT:PRINT:M$="!VITES,90 ":PE [5301]
N 1:!RELIEF,2,@M$:PEN 2:PRINT"
":!VITES,90:!ROTATION,@MV$
1260 PEN 1:!WINDOW,0,4,35,16,18 [1836]
1270 PEN 3:PRINT:PRINT"!ROTATION, [4626]
< @ chain alphan >"
1280 GOSUB 970 [842]
1290 MODE 1 [506]
1300 M$=STRING$(3,254)+"LISTING BAS [2400]
IC"+STRING$(5,254)
1310 PEN 3:!WINDOW,0,12,29,3,20,@M$ [1723]
:PEN 1
1320 PRINT:PRINT" LIST" [1411]
1330 PRINT " 10 PEN 2" [707]
1340 PRINT " 20 A$="+V$+"BONJOUR"+V [1526]
$
1350 PRINT " 30 B$="+V$+"HELLO"+V$ [2160]
1360 PRINT " 40 !VITES,70" [1062]
1370 PRINT " 50 !SON,64,2" [577]
1380 PRINT " 60 !TELEX,@A$" [1193]
1390 PRINT " 70 !VITES,30" [1161]
1400 PRINT " 80 PEN 3" [845]
1410 PRINT " 90 !ROTATION,@B$" [1227]
1420 PRINT " 100 END" [351]
1430 PRINT:PRINT" RUN" [1510]
1440 PEN 2:A$=" BONJOUR":B$=" HELLO [6754]
":!VITES,70:!SON,64,2:!TELEX,@A$:!V
ITES,30:PRINT:PEN 3:!ROTATION,@B$
1450 PEN 1:PRINT:PRINT" Ready" [1702]
1460 GOSUB 970 [842]
1470 !PENG,1:MODE 0:INK 0,10:INK 1, [7225]
25:BORDER 10:A$="FAST ET SLOW ":!VI
TES,12:LOCATE 5,12:!ROTATION,@A$
1480 MODE 1:BORDER 26:INK 0,26:INK [3834]
3,0:INK 1,6:PEN 3:GOTO 1530
1490 !WINDOW,0,2,39,3,17,@M$ [1700]
1500 tt=TIME:FOR T=1 TO 15:PRINT ST [4176]
RING$(38,207);:NEXT T:RETURN
1510 PRINT M$ [391]
1520 tt=TIME:FOR T=1 TO 15:PRINT ST [4176]
RING$(38,207);:NEXT T:RETURN
1530 M$=STRING$(11,254)+"BASIC LOCO [2352]
MOTIVE"+STRING$(11,254)
1540 !FAST,0:GOSUB 1490:T1=TIME-TT [940]
1550 M$="VITESSE D'AFFICHAGE DE 570 [4159]
CARACTERES":PEN #1,1:!WINDOW,1,2,3
9,19,24:PRINT #1:PRINT #1,M$:PRINT
#1
1560 PEN#1,2:PRINT#1,"!SLOW ";T1 [2329]
1570 FOR T=1 TO 2500:NEXT [924]
1580 M$=STRING$(12,254)+"BASIC "+RE [4667]
F$+STRING$(12,254):!FAST,1:GOSUB 14
90:T2=TIME-TT
1590 !SLOW:PRINT #1:PRINT #1,"!FAST [2754]
,1 ";T2
1600 FOR T=1 TO 2500:NEXT [924]
1610 LOCATE #2,1,25:FOR T=1 TO 8:PR [3080]
INT #2:NEXT
1620 GOSUB 970 [842]
1630 MODE 2:M$=STRING$(11,254)+"BAS [4895]
IC LOCOMOTIVE"+STRING$(11,254)
1640 !FAST,0:GOSUB 1510:T3=TIME-TT [2092]
1650 PRINT:PRINT:PRINT"!SLOW "; [2205]
T3:PRINT
1660 FOR T=1 TO 2500:NEXT [924]
1670 M$=STRING$(12,254)+"BASIC "+RE [3436]
F$+STRING$(12,254):!FAST,2:GOSUB 15
10:T4=TIME-TT
1680 !SLOW:PRINT:PRINT:PRINT"!FAST [4841]
,2 ";T4
1690 FOR T=1 TO 2500:NEXT [924]
1700 PRINT:PRINT:PRINT" <ESPACE> PO [3368]

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UR CONTINUER ":CALL &BB18
1710 co=45:MODE 1:DESK,32,128:INK [2397]
1,2:INK 2,6:INK 3,22
1720 WINDOW,0,3,38,2,4:PRINT:M$=" [7162]
VITESSE D'AFFICHAGE EN MODE 1 ET 2"
:PEN 2:PENG,1:RELIEF,1,@M$:WINDOW
1,40,1,25
1730 L=38:G=T1:GOSUB 1800 [800]
1740 G=T2:GOSUB 1800:G=T3:GOSUB 180 [2803]
0:G=T4:GOSUB 1800
1750 A$="MODE 1":B$="MODE 2":PEN 1: [9636]
:PENG,1:LOCATE 4,17:RELIEF,2,@A$:L
OCATE 13,17:RELIEF,2,@A$:LOCATE 22
,17:RELIEF,2,@B$:LOCATE 31,17:REL
IEF,2,@B$
1760 A$="FAST":B$="SLOW":PEN 1:P [9591]
ENG,1:LOCATE 4,19:RELIEF,4,@B$:LOC
ATE 13,19:RELIEF,4,@A$:LOCATE 22,1
9:RELIEF,4,@B$:LOCATE 31,19:RELIE
F,4,@A$
1770 LOCATE 4,20:PRINT T1:LOCATE 1 [4344]
3,20:PRINT T2:LOCATE 22,20:PRINT T
3:LOCATE 31,20:PRINT T4;
1780 GOSUB 970 [842]
1790 GOTO 1840 [395]
1800 FOR t=94 TO 94+(G/3) STEP 2:MO [4981]
VE 1,t:DRAW 1+130,t,2:DRAW 1+130+co
,t+co,3:NEXT
1810 FOR G=L TO L+130 STEP 2:MOVE G [2105]
,T:DRAW G+CO,T+CO,1:NEXT
1820 L=L+144 [482]
1830 RETURN [555]
1840 MODE 1:INK 1,0:DESK,175,95 [2224]
1850 WINDOW,0,3,37,2,6 [1109]
1860 PEN 1:PRINT [1204]
1870 PRINT " FAST,<MODE ACTUEL(SEUL [2143]
1 OU 2)>"
1880 PRINT [361]
1890 PRINT " SLOW (RETOUR AU BASIC [2905]
LOCOMOTIVE)"
1900 WINDOW,0,3,20,8,20 [1424]
1910 PRINT [361]
1920 PRINT "LIST" [915]
1930 PRINT [361]
1940 PRINT "10 MODE 1" [848]
1950 PRINT "20 FAST,1" [2085]
1960 PRINT "30 PRINT A,B,C" [1098]
1970 PRINT "40 SLOW" [1519]
1980 PRINT "50 MODE 2" [974]
1990 PRINT "60 FAST,2" [712]
2000 PRINT "70 PRINT A,B,C" [949]
2010 PRINT "80 END" [357]
2020 PRINT "Ready" [1022]
2030 M$=STRING$(5,254)+"ATTENTION"+ [3763]
STRING$(5,254):WINDOW,0,22,39,8,21
,@M$
2040 PRINT:PEN 2:PRINT "TOUJOUR MET [12304]

TRE ISLOW POUR PASSER DE FAST,1
A FAST,2:PRINT:PRINT"EN IFAS
T,1 SEUL PEN 3 FONCTIONNE":PRINT
:PRINT "EN FAST,2 PAS D'AUTRE F
ENETRE QUE #0"
2050 GOSUB 970 [842]
2060 MODE 1:INK 0,6:INK 1,0:BORDER [991]
6:SYMBOL 255,238,187,246,173,126,21
9,189,119:LOCATE 12,12:M$="SUPER .
DESK . WINDOW":ISUPER,@M$:LOCATE 15
,14:M$="PENG . PAPERG":ISUPER,@M$
2070 FOR T=1 TO 1500:NEXT [100]
2080 MODE 1:INK 0,24:BORDER 24,24:I [344]
NK 1,6:INK 2,2:INK 3,26
2090 DESK,10,5:WINDOW,0,2,39,2,20 [326]
:PRINT
2100 PRINT " :PENG,<couleur de l'en [233]
cre graphique>":PRINT
2110 PRINT " :PAPERG,<couleur du fo [519]
nd graphique>":PRINT
2120 PRINT " WINDOW,<numemos du ca [778]
nal> ,<gauche>,<d
roit>,<haut>,<bas> ,< @ chai
n alphan >":PRINT
2130 PRINT " DESK,<decor1>,<decor2 [198]
>":PRINT
2140 PRINT " ISUPER,< @ chain alpha [230]
n>":PRINT
2150 PEN 3:M$="CREATION DE NOUVELLE [549]
S POLICES AVEC
SU
PER":ISUPER,@M$
2160 PEN 1:PRINT:PRINT USING "&";"R [668]
EDEFINIR LE CARACTERE 255 (ex: ";CH
R$(255);" ) SUPER FERA LE RESTE
"
2170 GOSUB 970 [842]
2180 PAPER 3:PEN 2:M$=STRING$(9,254 [496]
)+"LISTING BASIC"+STRING$(9,254):W
INDOW,0,6,34,6,23,@M$
2190 PEN 1:PRINT:PRINT" LIST" [143]
2200 PRINT " 10 M$="+V$+"FENETRE"+V [1007]
$
2210 PRINT " 20 DESK,1,2" [918]
2220 PRINT " 30 WINDOW,1,4,18,6,19 [2254]
,@M$"
2230 PRINT " 40 PENG,3" [874]
2240 PRINT " 50 PLOT 8,8:DRAW 200,2 [1118]
00"
2250 PRINT " 60 PAPER,2" [1112]
2260 PRINT " 70 CLG" [894]
2270 PRINT " 80 WINDOW,0,2,39,2,24 [2418]
"
2280 PRINT " 90 SYMBOL 255,247,247, [3346]
247 ,247,247,247,247,247"
2290 PRINT " 100 ISUPER,@M$" [1285]
2300 GOSUB 970 [842]
2310 GOTO 440 [444]

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