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100 {*****}
110 {* HISOFT PATTERNS Version 1.0 02/01/1987 *}
120 {* by Alwin Ertl *}
130 {*****}
140
150 PROGRAM patternline;
160
170 CONST
180 maxpatterns = 10;
190
200 TYPE
210 pattern = PACKED ARRAY [1..8] OF boolean;
220 patternarray = PACKED ARRAY [1..maxpatterns] OF pattern;
230
240 VAR
250 pa : patternarray;
260 i : integer; {nur fuer Demo!}
270
280 PROCEDURE plot (x,y : integer);
290 BEGIN
300 rde := x;
310 rhl := y;
320 user (#bbee) {gra plot absolute}
330 END;
340
350 PROCEDURE setpattern (nr : integer; pat : char);
360 VAR
370 i : integer;
380 pot : PACKED ARRAY [1..8] OF integer;
390 BEGIN
400 pot [1] := 1;
410 pot [2] := 2;
420 pot [3] := 4;
430 pot [4] := 8;
440 pot [5] := 16;
450 pot [6] := 32;
460 pot [7] := 64;
470 pot [8] := 128;
480 FOR i := 8 DOWNTO 1 DO
490 IF ord (pat) >= pot [i]
500 THEN
510 BEGIN
520 pa [nr,i] := true;
530 pat := chr (ord(pat) - pot[i])
540 END
550 ELSE
560 pa [nr,i] := false
570 END;
580
590 PROCEDURE plineh (x,y,l,nr : integer);
600 VAR
610 i, z : integer;
620 BEGIN
630 z := 0;
640 i := x;
650 WHILE i < x+l DO
660 BEGIN
670 z := succ (z MOD 8);
680 IF pa [nr,z]
690 THEN
700 plot (i,y);
710 i := succ (i)
720 END

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730     END;
740
750     PROCEDURE plinev (x,y,l,nr : integer);
760     VAR
770         i, z : integer;
780     BEGIN
790         z := 0;
800         i := y;
810         WHILE i < y+1 DO
820             BEGIN
830                 z := succ (z MOD 8);
840                 IF pa [nr,z]
850                     THEN
860                         plot (x,i);
870                         i := succ (succ(i))
880                     END
890             END;
900
910 BEGIN
920     page;
930     setpattern (1,chr(217));
940     setpattern (2,chr(170));
950     setpattern (3,chr(195));
960     setpattern (4,chr( 60));
970     setpattern (5,chr( 90));
980     FOR i := 0 TO 100 DO
990         BEGIN
1000            plineh (0,i,640,5);
1010            i := succ (i)
1020        END;
1030     FOR i := 100 TO 130 DO
1040         plinev (i,101,50,1);
1050     FOR i := 200 TO 230 DO
1060         plinev (i,101,64,2);
1070     FOR i := 300 TO 330 DO
1080         plinev (i,101,183,3);
1090     FOR i := 400 TO 430 DO
1100         plinev (i,101,254,4)
1110     END.

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