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10 REM GRAPHIT-main program
20 REM
30 ZONE 10
40 DIM label$(12),valcomp(12)
50 ON ERROR GOTO 1000
60 MODE 1
70 BORDER 26:PEN 1:PEN 2:PEN 3
80 INK 0,26:INK 1,6:INK 2,0:INK 3,18
90 PEN 2
100 PRINT"          BAR CHART GENERATOR":PRINT:P
RINT:PRINT
110 LOCATE 1,5
120 LINE INPUT"Title please ":title$:PRINT:PR
INT
130 IF LEN( title$) >20 THEN PRINT"Too long!"
:GOTO 110
140 LOCATE 1,8
150 INPUT"How many components":component%
160 IF component% >12 THEN PRINT"Maximum is t
welve!":GOTO 140
170 IF component%<1 THEN GOTO 140
180 LOCATE 1,12
190 INPUT"What is the maximum value":maxvalue
%
200 IF maxvalue%>9900 THEN PRINT"Value too hi
gh!":GOTO 180
210 IF maxvalue%<10 THEN PRINT"Value too low!
":GOTO 180
220 IF maxvalue%<=990 THEN maxvalue%=(maxvalu
e%+47/10:maxvalue%=maxvalue%*10:scaleflag%=0:
GOTO 260 'round up max.value to nearest 10

230 REM convert max val above 990 to nearest
10 using 1/10th scale labelling
240 maxvalue%=(maxvalue%+49)/100:maxvalue%=ma
xvalue%*10
250 scaleflag%=1
260 REM Label and value components
270 FOR c%=1 TO component%
280 CLS:PRINT"  Label each component(max.3 ch
aracters)":PRINT:PRINT
290 LOCATE 1,10
300 PRINT"Component number"c%" label please "
:
310 INPUT:label$(c%)
320 IF LEN( label$(c%))>3 THEN 280
325 LOCATE 1,13:PRINT SPC(39):LOCATE 1,13

330 INPUT:"Value please ":valcomp(c%)
340 IF scaleflag%=1 AND valcomp(c%)>maxvalue%
*10 GOTO 325
350 IF scaleflag%=0 AND valcomp(c%)>maxvalue%
GOTO 325
360 IF valcomp(c%)<0 GOTO 325
370 NEXT
380 GOSUB 2000
390 REM Title

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430 CLS:BORDER 0
431 LOCATE 5,10
435 PRINT"To quit Graph press any key"
437 FOR x=1 TO 1500:NEXT
438 CLS
440 PEN 1
450 IF scaleflag% = 1 THEN LOCATE 4,1:PRINT"x10
"
460 LOCATE 12,2
470 PRINT"***"UPPER$(title$)"***"
480 REM Scale and Draw
490 REM X axis
500 FOR x%=1 TO component%
510 MOVE 56,47:DRAW(component%*48+64),47,2

520 REM Label x axis
530 LOCATE (x%*3+2),25
540 PRINT label$(x%);
550 NEXT
560 REM Y axis
570 MOVE 56,48:DRAW 56,568
580 FOR y=80 TO 368 STEP 32:PLOT 55,y+1:NEXT

590 scale%=maxvalue%/10 'scale value per two
lines=1/10 of max value
600 REM Label y axis
610 scalelabel%=0
620 FOR y%=20 TO 2 STEP -2

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630 scalelabel%=scalelabel%+scale%
640 LOCATE 1,y%
650 PRINT USING"###":scalelabel%
660 NEXT
670 REM Draw Bars
680 PEN 3
690 FOR c%=1 TO component%
700 IF scaleflag%=1 THEN scale%=maxvalue%*NB
maxvalue has already been reduced by 1/10th !
710 ylines%=valcomp(c%)/(scale%/2)* scale per
1 line
720 barheight%=(22-ylines%)+1
730   FOR h%=22 TO barheight% STEP-1
740     IF h%=22 THEN yflag=1 ELSE yflag=0
750     IF h%=barheight% THEN yflag=2
760     LOCATE (c%*3+2),h%
770     IF yflag=2 THEN PRINT CHR$(143);CHR$(14
3);CHR$(223);GOTO 790
780     IF yflag=1 THEN PRINT CHR$(143);CHR$(14
3);CHR$(220) ELSE PRINT CHR$(143);CHR$(143);C
HR$(207)
790   NEXT
800 NEXT
810 a$=INKEY$:IF a$="" GOTO 810
820 PEN 2
830 CLS:LOCATE 10,12:PRINT"Finished(Y/N)?"
840 a$=INKEY$:IF a$="" GOTO 840
850 IF a$="y" OR a$="Y" GOTO 60 ELSE GOTO 380
1000 PRINT"The value just entered is too high
-      try again please":PRINT
1010 RESUME
2000 REM TABLE and EDITING subroutine
2010 CLS:BORDER 26:PEN#1,2
2020 WINDOW#1,10,40,1,13
2030 PAPER#1,3:CLS#1

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2040 PRINT#1,"Component Label      Value"
2050 FOR c%=1 TO component%
2060 PRINT#1,c%,label$(c%),valcomp(c%)
2070 NEXT
2080 PEN 2:LOCATE 5,17
2090 PRINT"Do you want to amend(Y/N)?"
2100 a$=INKEY$:IF a$="" GOTO 2100
2110 IF a$="n" OR a$="N" THEN RETURN
2120 REM edit label
2130 LOCATE 5,17:PRINT SPC(35):LOCATE 5,17
2140 INPUT"Which component No. please":number%
2150 IF number% < 1 OR number% > component% GO
TO 2130
2160 LOCATE 5,17:PRINT SPC(36):LOCATE 5,17
2170 PRINT"Do you wish to amend the Label(Y/N
)?"
2180 a$=INKEY$:IF a$="" GOTO 2180
2190 IF a$="n" OR a$="N" GOTO 2230
2200 LOCATE 5,17:PRINT SPC(36):LOCATE 5,17
2210 INPUT"What is the new Label":label$(numb
er%)
2220 IF LEN(label$(number%)) > 3 GOTO 2200
2230 REM edit value
2240 LOCATE 5,17:PRINT SPC(36):LOCATE 5,17
2250 PRINT"Do you wish to amend the Value(Y/N
)?"
2260 a$=INKEY$:IF a$="" GOTO 2260
2270 IF a$="n" OR a$="N" GOTO 2000
2280 LOCATE 5,17:PRINT SPC(36):LOCATE 5,17
2290 INPUT"What is the new Value":valcomp(num
ber%)
2300 IF valcomp(number%)<0 OR valcomp(number%
)>maxvalue% GOTO 2280
2310 RETURN

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