Apple /// Computer Information
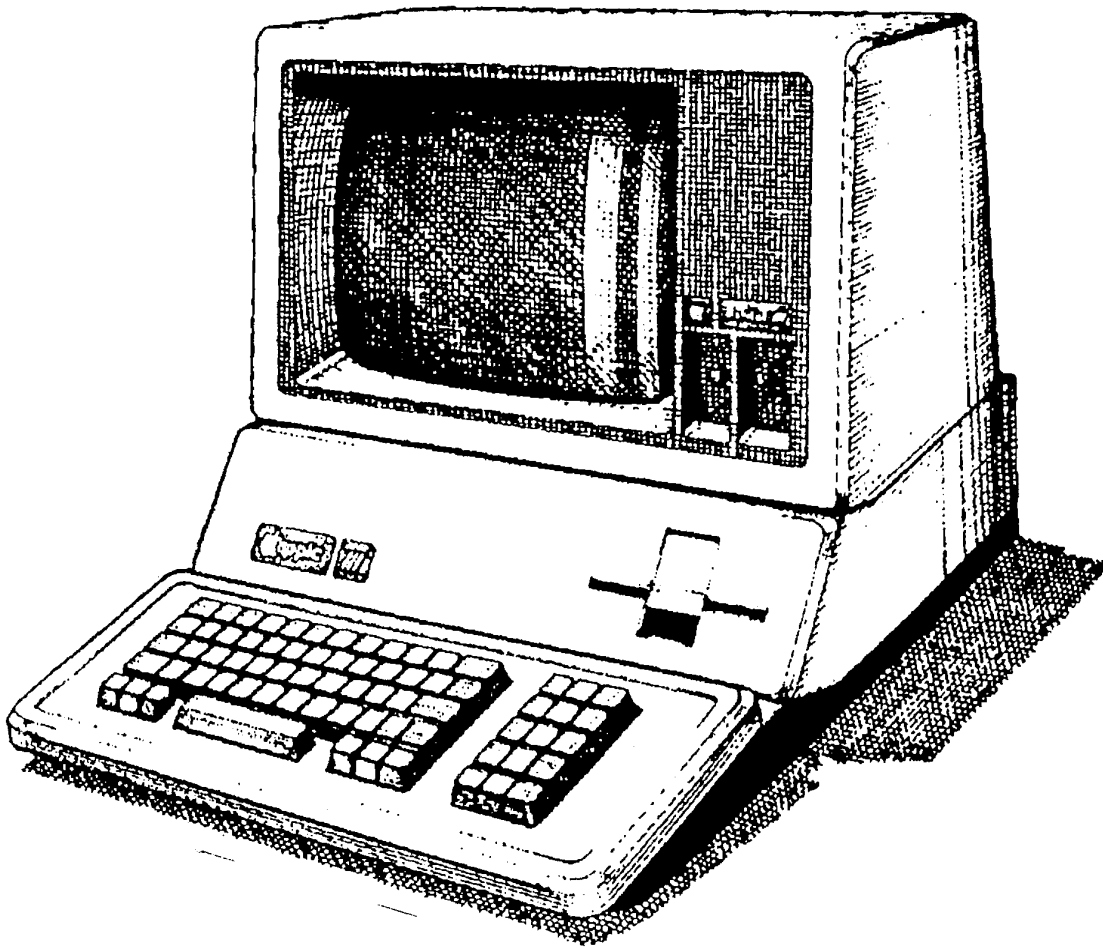
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┌──────────────── DOCUMENT NAME ───────────────┬──── # ────┐
│  APPLE III BUSINESS BASIC                      │           │
│  BUTTERFLY PROGRAM                             │    113    │
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Ex Libris David T. Craig

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 1  Created by: JOHN LOMARTIRE on: 02/20/1990 00:48:18
 2
 3  The newsletter from Adam and Eve Apple Users Group of Madison Wisconsin
 4  contained a review of the Ariel Publishing Company newsletter.
 5  According to the reviewer, H. Jackson, the July-August issue published
 6  an AppleSoft Basic program (Apple II) that would produce a "butterfly"
 7  on the screen.  I have rewritten the program so it will run on our
 8  Apple ///, and since it is so short I have listed it here with
 9  acknowledgement to Adam & Eve and Ariel Publishing.
10  The program:
11
12  100   HOME
13  120   INVOKE ".D1/BGRAF.INV"
14  130   OPEN# 1,".GRAFIX"
15  140   MODE=0:BUFFER=1:PERFORM GRAFIXMODE(%MODE,%BUFFER)
16  150   PERFORM FILLPORT:PERFORM GRAFIXON
17  160   FOR T=0 TO 75.36 STEP .01
18  170       S=SIN(T):C=COS(T)
19  180       R=24*((EXP(C)) - (2*COS(4*T)) + (SIN(T/12)^5))
20  190       H%=140 + R*S:V%=96 - R*C
21  200       PERFORM DOTAT(%H%,%V%)
22  210   NEXT
23  220   VPOS=23:GET A$
24  230   CLOSE:TEXT:HOME:END
25
26  Note that the way the program is written, BGRAF.INV must be in Drive
27  #1 since that is where it is called in line 120.
28  You might have some fun changing the parameters in line 180.
29
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APPLE /// BUSINESS BASIC BUTTERFLY PROGRAM