mini'app'les

apple computer user group newsletter

JANUARY 1979   ISSUE   PAGE   EDITED BY:

ANNOUNCEMENTS:

FEBRUARY 14th USERS' GROUP MEETING at 7:30 p.m. at COMPUTERLAND

Stan Brooks will give a talk and demonstration on Interfacing to
the Game I/O port. He hopes to demonstrate:
- Starting and Stopping a Tape Recorder under Program Control
- A simple EIA interface.

MARCH 14th USERS' GROUP MEETING   at 7:30 p.m. at Computerland

Chuck Boody (873-2227) will give a talk and demonstration entitled

   MUSIC & THE APPLE

Chuck helped design a music synthesizer board which works in
conjunction with an external amplifier and speaker system. According to
one listener, it sounds like a "symphony orchestra"..The board provides
frequency control (notes), 3 voices, loudness including attack and release
and some degree of wave shape control.Talk will be application-oriented.

WOZ PAK COPIES

Per last newsletter and last users meeting, about 25 users have
signed up for a copy . We think we can get a copy for $10. This
cost will be amortized over the 25 users (40 cents approx).
The price will be the amortized cost plus the cost of reproduction.

If the first source dries up, a second source has been identified.
This is a type set version, which costs $20. We will also need to get
permission to reproduce. The amortized cost of that version would be 80
cents plus the cost of reproduction.

JANUARY 10th USERS' MEETING

Approximately 45 users attended this meeting.

1) Sign up sheets were passed around for copies of:

The WOZ PAK (Apple II notes by Wozniak) ; back-issues of Apple's
Contac newsletter.

2) PROGRAM: Through the kind efforts of Ken Brumbaugh of MEC, we were
honored with the visit of no less than 4 people from Apple in
Cupertino. These were:

Roger Cutler Marketing Strategist or
              Education Specialist

Roy Martin   Applications Software Manager
Charlie Kellner Education Development
                Software Support

Bryan Ehlers Applications Analyst

•Cutler gave an introduction. His job is to support the educational
community from Kindergaten to University (hence interest with MEC).
He had joined Apple in June after helping to form the SAPS
(Silicon Apple Programs Society of San Jose). He then gave a short
history of Apple. Two fellows, Steve Wozniak and Steve Jobs(spelling?)
created and sold about 200 Apple I computers. Wozniak came from H.P.,
Jobs from Atari.They were joined by Mike Markula, mktg manager
at Intel.
    The name Apple came about because one day they got tired of
calling the thing in the room a thing, so one of them said"lets call
it an Apple". So the name stuck.   The Apple I was a single
board computer without case and powersupply.
    The first Apple II was shipped in June 77 and 12 months later
they were a multimillion dollar corporation.

•Roy Martin came to Apple from HP 3 months ago. He had been at HP
for 6 years where he designed the HP 92 calculator. He has 17 years
experience. Roy made two introductory statements
    - Apple can   provide quality inexpensive software only if
the users respect the copyright laws. He implied that they can
sell thousands to tens of thousands of copies at a fw dollars a
piece but must be able to retrieve those few dollars a piece to
pay for the software.
    -The president of Apple had them all on orders not to announce
any software until it had been released and not to provide any
quantitaive production/staffing figures. He and the others were
faithfully to those orders.
    Roy then opened the meeting to questions .
    The following are some of the points made as a result of those
questions.
•Bob Bishop now works for Apple.
•The new about to be released software bank has the theme-
programmer. It will be supported by an 87 page set of documentation
and will contain a 'Micro List Programming Language '.
•The about to be released contributed software bank is supposed to
be pretty good. It includes a new bowling game(written by Charli-
Kellner)
•Manufaturers of computers have traditionally gotten a bad name by
announcing software in davance. Thats why Apple will not.

(Users Meeting cont)

● Lots of questions about DOS. He implied a new one was in the works and that the current version was an Interim version released because of the demand for the disk.

● He said Apple was very interested in Business Software.

● Apple does'nt highly regard currently available Assembler/Editors or they would support one of them. This writer noted that Apple had announced an Assembler/Editor in an early edition of Contact. No answer !

● Next edition (beyond no 4 which is out) will be a "Vested Contact" that will summarize earlier editions.

● Don't telephone Apple. They receive a call every 8 seconds ! They are trying to upgrade their telephone system. If you have a question, put it in writing to Jim Hoyt, Applications Software Engineer. Hoyt's job is to take frquently asked questions and answer them in Contact.

● Apple does'nt develop Basic . That was done by Microsoft. Don't ask general questions about Basic because Apple may not know the answer. However specific questions such as where is a particular flag can be answered..

● Comment about Radio Shack " Radio Shack is a company that manufactures personal computers not a personal computer manufacturing company "

● Their manufacturing capability (Backlog problems) will be gotten under control. They have just leased two new buildings.

● There are occasional problems with Static electricity on Apples. This problem was cured in one case by spraying floors and work surfaces with 'Clean Free Fabric Softener'

● Users' groups in Seattle, San Francisco and Los Angeles are known for their activities.

● Apple does have a plan to catalog software claims of contributed software in the future. When a program is contributed they will only consider it for release on the bank if there is something particularly unique about it. This leaves a vast majority which will not get released. Hence the need to document that. However that class of software which is documented , but not released, will not be supported.

● This writer asked a question about whether Apple will provide retrofit capability for ROM software which has been upgraded. For example, there have been modifications to AppleSoft II in ROM. Original version was IIa; then IIb now ;IIb rev 1 ? They will not guarantee portability of software from one version to another. However they did say they would find out if Apple would supply the ROMS to upgrade.

● Next release of bank will have a lower case software package (probably similar to that developed by R.Wentworth)

FLOPPY DISK CONVERSION

This idea from Keith Madonna. Some disks, such as VERBATIM have a front and back which can both be used (WARNING some makes do not have a coating on both sides and the drive could be damaged if an attempt was made to use such floppies) The disk packs as delivered usually only have a slot on the left side. If an identical slot is filed in opposite side, both front and back surfaces may be used. There is no need to drill any holes in the pack.

USER CONTRIBUTED SOFTWARE BANK

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>CATALOG

DISK VOLUME 254

  I 036 MINIBANK
. I 043 APPLESOFT
  A 036 KINGDOM
  I 004 COLOR EATER
  I 003 SHAPE MAKER
  I 024 EVIL
  I 008 FLY
  I 008 T.E.INSTRUCTIONS
  I 026 APPLESTAND
  I 003 COLOR MAGIC
  I 022 CREATES H8192
  I 067 SPELL H16384
  A 012 LUNAR LANDER
  I 016 I DARE YOU
  I 008 TEST
 .B 004 GRAPHPLOTMACHINE
  I 012 GRAPH PLOT
  I 007 AIRCRAFT GUNNER
  B 006 TEXT EDIT
  I 035 MATH GAMES
  A 008 HOME IMPROVEMENT
  B 002 RENUM/APPEND
 'I 008 RENUM/APPEND INST
  A 005 GRAVITY/ORBIT DEMO
  B 003 MACHINEPACK (BESTMICRO)
  B 002 SLO-LIST(BESTMICRO)
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The listing on the left represents the software bank as of Jan 79.You will note that there are several new programs.

Any of these programs may be obtained at Computerland Bloomington. A $1 charge per program is made to help defray the cost of printing and mailing this newsletter . For out-of-town members on subscription, programs are available for swapping purposes.

Below are some descriptions of some of the new programs

Home Improvements. This program was obtained from a listing in Dr Dobb's journal. It is a Cost Budget Analysis for home improvements designed to reduce fuel costs. Example Heat Pump purchase. Parameters input are : -

Loan $, Life of loan,	Interest rate,	Marginal tax rate of interest.
Loan Payment,	Cost of Fuel	%Reduction in fuel cost due to improvement,
Rate of Inflation of Fuel Cost,		
Life Expectancy of improvement,		Rate return on capital,
Marginal Tax rate on income from capital.		

Output shows in 12 year intervals annual payment and net savings.

RENUM/APPEND & RENUM/APPEND INST. This is the program and instructions on how to use it that appeared in Mar 78 edition of Dr Dobb's journal. It was written by Steve Wozniak of Apple.. It is a utility which allows a new set of statement numbers to be applied to an existing INTEGER Basic program. The user supples the starting number and increment for the statement numbers. It will not handle branch target expressions. eg GO TO ALPHA.

USER CONTRIBUTED SOFTWARE BANK (CONT)

RENUM/APPEND (CONT)   . The Append option allows two programs to be joined together into one longer program provided the statement numbers do not overlap.

<u>TEXT EDIT</u>   This is a text editor that was originally written for a KIM computer in assembly language , and published in Dr Dobb's journal. Keith Madonna modified the program to work with Apple I/ 0. It is useful for writing Assembly language or Pascal source code, or may be used for any type of text. The user starts by entering a starting adress in hex. This is the address in memory at which the text will be stored. Later after the editing is complete the user may save the text to tape using the monitor save feature. All lines require a 4 digit line number. The available EDIT commands are:

CLEAR	Clear memory file
LIST	Output on CRT with Line numbers
TEXT	Output on CRT without line numbers
FILE	Display starting and ending locations of in memory file
EXIT	Exit

The line number controls the INSERT/DELETE/MODIFY capability just as if one were typing a BASIC program.

<u>SLO-LIST</u>   (BEST MICRO) This is the program on p94 of Best Of Micro by Bob Sander-Cedarlof, Dallas, Texas. It is a 64 byte machine code program. It provides a scrolling listing which scrolls slowly and which may be stopped at any point by pressing the space bar. Pressing the space bar a 2nd time starts the listing again. A carriage return aborts the listing.

<u>MACHINE PACK (BEST MICRO)</u> This is a program by R.F.Suitor which appears on page 98 of Best of Micro. Permission has been granted to use the routine. It was originally published in MIcro #6. It allows subrountines written in assembly/machine code to be relocated and loaded with an INTEGER basic program without moving the pointers(as described in CONTACT #1). This has the advantage that the unused garbage between a subroutine in low memory and a small Basic in high memory is not taking up space on tape or disk, and it allows subroutines to start at 80Q which is tricky using pointers.

<u>GRAPHPLOTMACHINE & GRAPH PLOT</u> This is almost identical to CREATES H8192 except that the program and HIRESgraphics routine must be loaded separately. Creates was documented in a previous edition of this newsletter.

HEY- YOU MINI'APP'LES USERS; LETS GET SOME NEW ORIGINAL PROGRAMS ON OUR DISK SO WE HAVE SOMETHING TO SWAP. GET OFF YOUR ------- AND WRITE SOME PROGRAMS.....

APPLE II SWEET 16 INTERPRETER by DeWitt S.Brown,1650 9th Ave SE,Rochester, Mn.,55901
An article in the March, 78 edition of Dr Dobb's Journal entitled Renumbering _
& Appending Basic Programs on the Apple II Computer provoked my interest in the
Sweet 16 interpreter. After doing some research and some testing, I was able to
create a User Interface document for this interpreter. This document is six pages
in length and details with examples each of the 9 branching pseudo-instructions
and each of the 19 non branching instructions. The following is an example
of that detail:

LDDAT--Load double data and increment register

FORMAT: OR

0 ← 6, op code for LDDAT
R ← 0-F, the register pointing to the data

Example: 65
           Transfer 2 bytes of data ponted to by Register 5 to the
           accumulator and increment Register 5 twice.

Copies of this document may be obtained from the author or by contacting the editor
who will arrange for copies to be made.   (Note from editor- this is an excellent
document)

MINI'APP'LES IN THE NEWS
The December edition of BYTE magazine and the Jan issue of CONTACT from Appple
each published the existance of MINI'APP'LES. As a result of that publication we
have received queries about our newsletter , the cost to subscribe and whether
or not we have any programs to swap from 8 different individuals/organizations:

Weinstock, FtWalton Beach, Fla.
Judson Ellmers, Montvale, NY
Apple Corps Users Group, Austin, Tx
J.Boggess, Columbus, Ms
Impro Micro Systems, Thousand Oaks, Cal
Southeastern Software, New Orleans, La
Les Humphreys, Compufutures, Worcester, VT
Arthur Mack, Mountain View, Cal

Persons are being advised that it will
cost $7 to subscribe to the Mini'app'les
newsletter.

READERS' SURVEY   It would be appreciated if you would take a few minutes to fill out this survey. Return survey to Computerland, Bloomington or mail to the editor.

CIRCLE APPROPRIATE ITEMS AFTER READING INSTRUCTION FOR EACH SECTION.

LAST NAME_____   FIRST NAME _____   INITIAL _____

Address (if different from mailing address on back)

_____   Tel No. ____ - _____

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1   MONTH APPLE II SYSTEM DELIVERED (CIRCLE ONE ONLY - Ignore number below year)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	On order	Not a user
78	78	78	78	78	78	78	78	78	78	78	78	79	79	for 79	
12	11	10	9	8	7	6	5	4	3	2	1	0	0	-1	-2

HARDWARE CONFIGURATION

2   MEMORY- CIRCLE ONE ITEM ONLY-Ignore number under memory size

8K	12K	16K	20K	24K	32K	48K
2	3	4	5	6	8	12

3	DISKS - CIRCLE QUANTITY YOU HAVE o୩ →			PLANNED IN NEXT SIX MONTHS
	NONE	ONE	TWO	YES
	0	1	2	3
4	PRINTER	NO 0	YES 1	YES 3
5	COMMUNICATIONS CARD	NO 0	YES 1	YES 3
6	SERIAL I/O CA RD	NO 0	YES 1	YES 3
7	MODEM	NO 0	YES 1	YES 3
8	APPLESOFT IN ROM	NO 0	YES 1	YES 3
9	PROGRAMMERS AID CARD	NO 0	YES 1	YES 3

10	DISPLAY	B&W MONITOR or Converted TV	COLOR TV	B&W TV	COLOR MONITOR
		1	2	3	4

11   OTHER HARDWARE _____   OVER FOR SOFTWARE

Readers Survey CONT.   SOFTWARE:

INTERESTS: INDICATE IN ORDER OF IMPORTANCE BY CODE

FIRST _____

SECOND_____

THIRD_____

1.Business
2.Games
3.Education
4.Financial
5.Environmental Control
6.Special applications

PLANS FOR FUTURE: LIST PROGRAMS YOU PLAN TO DEVELOP WITHIN NEXT SIX MONTHS
          Maybe we can identify some joint projects.

_____

_____

HAVE YOU ATTENDED ANY MINI'APP'LES MEETINGS   YES(1)   NO(0)

DO YOU PLAN TO ATTEND ANY MINI'APP'LES MEETINGS   YES(1)   NO(0)   DON'T KNOW (2)

IS THE NEWSLETTER USEFUL   YES(1)   NO(0)   DON'T KNOW(2)

IF NOT , WHY NOT OR OTHER SUGGESTIONS

_____

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