CONTENTS

Volume 1 No.8 January 1980
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3 NEWSPRINT: Miriam Cosic reports in her unique style.

7 BENCHTEST: Exclusive first-ever Australian tests of Atari's new machines.

14 BENCHMARKS: Timings for all machines benchtested to-date.

15 SYSTEMS DEVELOPMENT: A practical guide by Dr. Jon Patrick.

19 CHECKOUT: Ian Davies has a look at CISA's high resolution board.

21 THE COMPLETE PASCAL: Sadler and Eisenbach outline procedures and functions.

30 GATEWAYS TO LOGIC: Continuing Derek Daine's series on teaching microcomputing to others.

47 APC-80: Version 2 — single keyword entry.

48 HELPING THE HANDICAPPED: A look at a US company specialising in this field.

51 ZX80 CORNER: Exclusively for ZX80 users.

53 FACE TO FACE: David Hebditch looks at formatted dialogues.

56 IN STORE: Further additions to our buyers guide.

58 APPLE-CATIONS: As promised — for Apples only.

61 PROGRAMS: More offerings from our readers.

64 LEISURE LINES: J.J. Clessa spins a very unlikely problem — but can you solve it?

68 ZX80 WINNER: First out of the hat . . .

Computer Games will return next month.

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SINGLE BOARDS

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aim 65</td>
<td>$525</td>
<td>1-4K RAM; 6502; 8K ROM; full K/B; 20 character LED display; 20 character thermal printer; Cx2 int: 1 P/P</td>
</tr>
<tr>
<td>SBC 100</td>
<td>$299</td>
<td>1K RAM; 280: 8K ROM; S108 bus; 1 I/P; 1 P/P</td>
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<tr>
<td>Microtix</td>
<td>$539</td>
<td>4-32K RAM: 6502: 10K ROM; full K/B; 24x32 VDU Int; C int: options - RS232; dual 54: F/D (140K)</td>
</tr>
<tr>
<td>Superboard</td>
<td>$360</td>
<td>1K monitor; DOS in ROM</td>
</tr>
<tr>
<td>UK 101</td>
<td>$595</td>
<td>Graphics. Will run Superboard software (S &amp; H)</td>
</tr>
</tbody>
</table>

List of Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/D</td>
<td>Floppy disk</td>
</tr>
<tr>
<td>C/G</td>
<td>Graphics card</td>
</tr>
<tr>
<td>H</td>
<td>Hardware</td>
</tr>
<tr>
<td>L/D</td>
<td>Hard disk</td>
</tr>
<tr>
<td>I</td>
<td>Introductory</td>
</tr>
<tr>
<td>T</td>
<td>Text editor</td>
</tr>
<tr>
<td>U</td>
<td>Utility</td>
</tr>
</tbody>
</table>

APPLICATIONS

by Ian Webster, Co-editor of the NSW Apple User Group Magazines 'Applications' and co-editor of the Computerworld Project.

This column is for the Australian Apple User community and those interested in the world of the personal computer. Yes! Contributions are welcome.

The NSW and WA Apple Users Groups were very active in 1980. The NSW AUG meets in the Science Centre, 35 Clarence St., Sydney, on the second Monday of every month at 6.30 p.m. It has an interest in all areas of interest Groups and publishes a monthly newsletter and the quarterly magazine Applications.

Membership enquiries to:—
John Smith (02) 389 4394
4/15 Raine St., Woollahra, 2025.

The West Australian AUG has an interesting monthly newsletter and a Program Library which includes several UCS Pascal disk packs from the US-based UCS Pascal Users Group.

Membership enquiries to:—
Clevon Royall (09) 384 3576
269 Marmion St., Cottesloe, 6011.

The Australian Apple User Groups' core is a User Groups' User Group. The IAC was established at the 5th West Coast Computer Fare to provide information and software transfers between Groups. There are over 160 member Groups at present who receive IAC software disks, Ap-Notes (the original Apple Application notes) and the Apple Orchard magazine. Membership is $50 from the Australian IAC director—
Roger Keatins (02) 389 2994
Box 4482, Double Bay, 2028.

Despite the tremendous interest in Apple Inc.'s release of 5 million shares into the New York stock exchange (US$17 a share), there has been a lot of grumbling from west coast USA user groups about the effects of Apple Inc.'s expansionist policies.

New Year releases will include
The Apple III (but without Pascal until April), and an upgrade of UCS Pascal to 1.1. Also to be seen is Revision 8 Apple II motherboard, without the RAM stunning blocks, and with new electronics such as the Apple II J-Plus (J stands for Japanese Apple, complete with Katakanan Character Generator).

Apple launched a fury of software in October with DOS 3.3 (16 sector version of DOS 3.2), (almost) ANSI77-77 Fortran, PILOT, the long awaited Apple Inc. version of the TED II Assembler/Editor and April, several game packages.

The Apple Assembler is disk based and can assemble relocatable object modules. A new file type 'R', for Relocatable binary file, has been added to the existing A,I,B,I types. The assembler is still cumbersome for those interested in speed and convenience, but useful if assembly language is extensively used.

There will be a large range of new software from Apple in 1981. It is called Special Delivery Software and is Apple Inc.'s selection from the thousands of programs Apple programmers have sent to headquarters. The release of Neil Handing Basic is also imminent.

Electronic Concepts has decided to push Apple II in 1981 with an extensive dealer and OEM network with rumours of new Computerland stores in Chatswood, Parramatta, Newcastle, Canberra and Hobart. The Sydney Computerland is moving down to the corner of York and Market Streets.

Well known NSW AUG member, George Thaminjis, has been employed by Electronic Concepts to establish the Apple HOTLINE. If you have any Apple problems or want to know anything about Australia in Australia, ring the Apple HOTLINE: (02) 929-2422.

Program of the month would have to be Bill Judge's 3D Graphics Database. The program has a simple and effective Editor that accepts a set of points and lines as a shape (a definition and a ten line Applesoft interface). The definition and Judge's display routines are loaded by your program then the shape is rotated, scaled or moved by passing parameters through Integer arrays. Hires page switching is used to produce very fast and smooth animation. The only problems with the package are that the shape is not clipped when it extends off the screen causing wrap around and a nagging suspicion that there may be tiny bugs in the database display routines. Anyone who uses Apple to teach kids programming should have this super 3D program.

DOS PATCHES

A few quick DOS patches from the S.F. Apple core. If you have a 32k Apple, subtract 4000Hex from each address. Enter the monitor with CALL—151 then make these changes.

1. Fast disk INIT

DOS:3.2 BEAD:28BF:62:07 BFAC:EA EA
Now INIT a disk.

2. To use a binary HELLO program

HELO:2C 0B 88 AE

3. Free sectors with CATALOG

B CBSA: A2 0C 20 A4 F9 A9 08 85
40 85 41 A0 C8 18 9B F2
B3 F0 0E A0 9B 48 E6
40 D0 02 E6 41 68 18 90
F0 88 D0 E9 A6 40 A5 41

Integer Basic BCE2: 20 1B E5
A' soft Basic BCE2: 20 24 ED
BCE3: 20 2F AE 60

All of the above patches can be saved by INITilising a disk with the patched DOS. The next patch must be POEd after DOS has been booted.

4. Abort CATALOG during screen full pause by pressing 'ESC'.

AE39: 20 80 B6
B680: 20 0C FD C9 9B D0 05 4C
D0 03 60

5. The start address and length of a binary file can be found at

AA72/AA73—Start Address after a BLOAD of the file.