APPLE-BUG

is the Newsletter of APPLE-Q: the Brisbane Users' Group.

Post Office Box 721 - South Brisbane - Qld 4101.

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FEBRUARY 1987

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NEXT MEETING:- 15th MARCH 1987

<<< CREDITS >>>

Graham Black	->	He typed it all in
Vince Crosdale	->	He typed some too
ZARDAX II	->	Word Processing
EPSON LQ-1500	->	Typesetting
the Hooper Centre	->	Printing & Distribution
the APPLE computer	->	The reason for it all

[Executive Committee]

Terry Sweetser	- Chairman.
Vince Crosdale	- Secretary.
Eric Conolly	- Treasurer.
Graham Black	- Registrar - Trading Table Manager - BBS Sysop.
Richard Egglesfield	- Hardcopy Librarian.
Peter Lane-Collett	- Assistant Editor.
Bob Godbehere	- Software Librarian

[What's When]

Sunday 15th March 1987
Open Day at the Hooper Centre.
    Starts 9.00.am.

Monday 16th March 1987
Committee Meeting at the Hooper Centre.
    Starts 6.30.pm

Sunday 19th April 1987
Open Day at the Hooper Centre.
    Starts 9.00.am.

Monday 20th April 1987
Committee Meeting at the Hooper Centre.
    Starts 6.30.pm

[Registrar's Report]

by Graham Black

     A lot of members are having trouble decyphering the mailing labels. Your
membership number and membership expiry date are on the first line (at the
top). Your expiry date is in the form year/month e.g. 8709 = 1987 September.

Example:
```
 _____
:                                                :
:    MBR # 0068   -   Exp: 8709                   :
:                                                :
:    THE SECRETARY                                :
:    APPLE-Q: THE BRISBANE USERS' GROUP           :
:    P.O.BOX 721                                  :
:    SOUTH BRISBANE.QLD        4101               :
:                                                :
 _____
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     You have all received your new membership cards. This card will cover you
until your membership expires. Members are required to display their card on
their machine at each meeting. This will allow us to track down the bludgers
at the meetings. We have had many complaints from members, that there is not
enough room for them to set up their equipment, because there were people who
have been attending for years who have never seen fit to pay their fees. Last
month, this proved to be very affective, and non-members were approached on

this point.

We would also ask all members and visitors, to please sign the book near the front door. This is to allow us to try and regulate visitors coming in and setting up their equipment and inconveniencing club members by taking up space. We would like to point out that we are not trying to stop visitors coming to the meetings, but we do ask that if they wish to set up their equipment, and to use the facilities of the club, that they please join up first. They may feel free to have a good look round and make all the enquires they like first, but they are required to join the club BEFORE setting up their equipment. We are not doing this to try and become militant, it is just in reply to complaints received members not being able to set up because a non-member is using club facilities.

*** WANTED URGENTLY ***

We still have a few members on our books who have not bothered to inform us of their change of address. If you know any member who has changed his/her address, would you PLEASE ask them to give us the appropriate details, or let a committee member know their NEW ADDRESS as soon as possible, so that we can ammend our records, and let them have their Newsletters that they are missing out on. When you renew your membership, it is important to fill out a MEMBERSHIP RENEWAL FORM. This enables us to update our records. Please include the area code with your phone number. If your POSTAL ADDRESS is different from your residential address, then it will be necessary to include this address in the space provided. These forms can be sent directly to me at the following address:

The Registrar
Apple-Q: the Brisbane Users' Group
P.O.Box 698
Redcliffe
Qld. 4020

[SECRETARY'S NOTES]

by Vince Crosdale

Well here we are again with yet another edition of Apple-Bug. It seems as though it was only yesterday that we were preparing the last issue.

The month of January was a relatively quiet one for news and other bits of information from the computing world, with the mail box remaining rather bare for the majority of the time. There were, however, some interesting arrivals, among them three copies of A+ all at once. These magazines contained some rather interesting articles about new products from the States, and also contained some excellent articles on the Apple //GS in comparison to four other leading brand computers. This article makes for some rather interesting reading as it shows each machines characteristics in comparison with another.

For all those individuals out there lucky enough to be able to afford a //GS, Prentice-Hall of Australia have just released a book that may be just what you are looking for. It is called "Programming the 65816 - including the 6502, 65C02 and 65802". This book is for those that are machine-language orientated and its foreword is written by Bill Mensch, the designer of the 65816, 65802 and 65C02 chips. Unfortunately, we don't have a copy of this

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publication, but a flyer has been sent to us containing information about this book, and it is available from me for those interested.

The Executive Committee had a meeting with the Queensland manager of Apple Computer Australia on Wednesday, February 4. This meeting arose through the need of more support for the club from our parent company and also the need for equipment to conduct club business and the BBS. The manager, Mr. Roger Lovesy was most receptive to the pleas of the club and showed extreme interest in the user group and its operations throughout Queensland and Australia. A letter outlining the basic needs of the club was presented to Mr. Lovesy and he has promised to follow up any course of action that may be open to him. He has stated that he would like to see more support for the user groups as they provide an invaluable service to Apple Australia in the advertising and recommendation of their product. Certain other matters were discussed at the meeting and these will be announced to members as more information comes to hand. However, the prospect of the club receiving support from Apple Australia looks extremely promising at the moment and we would ask all club members to try and help us to achieve our final goal. More on this during the year.

I mentioned earlier about several new magazines arriving during December and January. If anyone is interested in these, please see Richard Egglesfield.

[BBS REPORT]

by Vince Crosdale (Co-Sysop)

The BBS is running extremely well at the moment and a lot of new segments for it have just arrived from Perth. Graham and myself spent a sleepless night on Tuesday, 3 February, implementing these new segments into the BBS. They are the new file transfer segments and our new on-line game, Stock Market. We would ask all users of the BBS to please take copies of all the help files pertaining to these new segments, and read them throughly before attempting to use these facilities. They are complex in themselves and neither Graham or myself are fully familiar with them yet, so we won't be able to offer much assistance for a while yet. Many thanks must go out to Graeme Platt, Sysop of the Nemo BBS and Australian distributor of our software, for all the help, assistance and product information that he has relayed to us over the last two months or so.

Well, that's about it for this month. If anyone has any contributions for the magazine remember that you can either leave them at the Trading Table with Graham or myself or upload them as text files onto the Apple-Bug board on the BBS.

Until next month, good computing.

[SYSOP's REPORT]

by Graham Black

The BBS has been extremely well received by members and the general public, with membership now over 170 users, and calls into the system, over 1700, in the past three months. It is constantly in use and the message bases are filling up quite well. We have only two (2) boards setup for on-line

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games, and these also are being well received. Unfortunately, we had to drop
one of the games, as we were running out of disk space. There is a new game
called STOCK MARKET, which has started up this week. In the initial stages of
setting up the BBS, we had a few major hassels with the software, but with
the arrival of the NEW VERSION of the BBS software from the states (via
Perth), everything is now running exceptionally well.

   The BBS is running under ACOS, which is a special language operating under
PRODOS. The modem we are using, is a NetComm 1234A, and it handles all the
baud rates (Data transfer speed) listed below.

        For all who didn't get the number last month, it is:

            RApple-Q RABBS (online 24 hrs)
            Telephone (07) 284-6145 (DATA)
                      (07) 284-0999 (VOICE)
        Baud Rates: 300, 1200/75, 1200 and 2400. Bell and CCITT
        Data Specs: 8 Data bits - No Parity - 1 Stop bit.
            SYSOP: Graham Black
            (Sysop stands for System Operator)

[Special Discount Offers]

   The following Dealers, have offered a cash discount on all Apple products
to FINANCIAL MEMBERS ONLY, on production of CURRENT membership cards. Please
note: Members MUST produce their current membership cards if they wish to
take advantage of this offer.

DELSOUND ELECTRONICS
            1 Wickham Terrace (corner Wharf Street), Brisbane
               telephone: (07) 839-6155
               ask for John

COMPUTER ORCHARD
            671 Gympie Road, Chermside, Brisbane
               telephone: (07) 350-1255
               ask for Scott

THE BYTE CENTRE
            49 Park Road, Milton, Brisbane
               telephone: (07) 369-4099
               ask for James Donegan

[The Trading Table]

by Graham Black

   The Trading Table will be operating as usual. We have some modems on sale,
so that members who don't have one yet, will have the oportunity to buy a
good quality modem at the right price, so that they can enjoy the pleasures
of BBSing, along with the rest of us. We are able to sell the NetComm 3+12
manual modem for $299. NetComm produce a very good range of modems, and it is
only a matter of personal preference as to the type of modem you need, at a
price that is realistic. The BBS (RAppleQ), is operating with the NetComm
1234A modem. This modem is almost top of the range, and will handle a variety

of baud rates. The NetComm 3+12 modem uses 300 baud and 1200/75 baud (Viatel).

Our current stock items have been reduced to the special prices which were advertised in the last few newsletters. These prices are being retained, simply to clear out our existing stocks. We still have a supply of Single Sided Double Density disks in stock, at $23.00 per box.

PRICE LIST for February 1987

These prices are correct at the time of compilation, but are subject to change without notice.

Decription	Price
Single 5.25" disks	2.50
5.25" SS/DD. Control Data (in library case)	23.00
5.25" DS/DD. Control Data (in library case)	29.50
3.5" DS/DD. Wabash	6.80
Basic Programming.....................(book)	12.00
Workshops Vol.1......................(book)	16.00
Workshops Vol.2......................(book)	16.00
Computer Connection..................(book)	9.00
Word Processing with ZARDAX..........(book)	15.00
Assorted books	.50
DX 100 media storeage boxes	26.00
MF media storeage box (with lock)..(1 only)	31.00
FD30 media storeage box	9.50
Epson MX80 ribbon cartridges (fit GENUINE EPSON ONLY)	10.00
Epson LX/MX80 ribbon cartridge	11.50
Hardcopy binder	7.00
Disk labels (fanfold) (per sheet of 8)	.20
Zero-force sockets (I/O port extension)	27.00

[EDITORIAL]

APPLE //GS UPGRADE

Reprinted courtesy of Apple Computer Australia.

Transform your Apple //e into an Apple //GS.

The Apple //GS upgrade gives your Apple //e personal computer the advanced capabilities of the newest - and most powerful - Apple //. With this simple, dealer-installed option, you get the incredible colour graphics, sound and expanability of the Apple //GS without sacrificing your investment in your Apple //e.

The Apple //GS upgrade adds 4096 colour high-resolution graphics, 15 voice sound generation, an Appletalk Personal Network interface, RGB colour video output, the ability to connect Apple Desktop Bus peripherals, and more. Yet

you retain compatibility with most Apple //e software and accessories - while
gaining access to exciting new Apple //GS applications.

Benefits of the Apple //GS Upgrade.....

- brings the power of the Apple //GS to an Apple //e
- can be installed quickly by your authorised Apple dealer
- retains the beige case of the Apple //e, so the computer still matches
  your existing peripherals
- runs **most** of the existing software written for the Apple //e **and //c,**
  including programs written in DOS 3.3, ProDOS, Pascal and CP/M (with
  the addition of a Z80 card) - and runs them up to 2.8 times faster
- gives you 256k of user memory (RAM), for sophisticated appli cations
  and large documents
- accepts the Apple //GS Memory Expansion Card, for easy RAM expansion
  to as much as 1 megabyte
- lets you have a total RAM of 8 megabytes
- with the addition of the Memory Expansion Card, lets you run advanced
  graphics-based applications similar to those written for the Macintosh
  computer, but developed especially for the Apple //GS
- adds an incredible richness to graphics with two new high resolution
  colour graphics modes, which offer a palette of 4096 different colours
- produces up to 15 voices simultaneously, for natural-sounding music,
  speech and sound effects
- retains the same number of general purpose expansion solts as the Apple
  //e, letting you use most existing Apple //e expansion cards
- includes built-in AppleTalk firmware and connector, for easy connection
  with the Apple LaserWriter printer and other shared devices
- allows you to connect directly to an AppleColour RGB Monitor, for high-
  resolution colour display
- lets you "daisy-chain" as many as four 3.5" and 5.25" drives from the
  built-in disk drive port
- gives you access to Apple Desktop Bus peripherals
- includes QuickDraw II graphics routine
- offers a Memory Manager in ROM to efficiently handle appli cation
  memory usages
- includes a built-in clock for the time-stamping of files

A Closer Look.

   The Apple //GS upgrade gives you the best of both worlds: the advanced
features of the powerful Apple //GS personal computer, plus protection of
your investment in your Apple //e. Even the "look" of your overall system is
retained, since your more powerful computer is housed in the traditional
beige-coloured //e case.
   The heart of the Apple //GS is the G5C816 microprocessor, which supports
both traditional 8-bit Apple // programs and the newest Apple //GS 16-bit
applications. This allows a single computer to expand the horizons of the
Apple // while retaining compatibility with virtually all existing software
and hardware.
   By transforming your Apple //e into an Apple //GS, you will gain a variety
of impressive capabilities. Create breathtaking colour presentations with the
new Apple //GS high-resolution graphics modes displaying as many as 256
colours at once from the palette of 4096 colours and, since the upgrade adds
RGB colour video capability to your //e, you can display these stunning
creations on the new AppleColour RGB Monitor (all standard Apple //e graphics

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modes are retained).

If you want impressive sound capabilities in your personal computer, the Apple //GS upgrade brings them to you. A special 32-oscillator sound chip produces output from up to 15 different "instruments" simultaneously, letting you create amazingly realistic music, speech and sound effects. For maximum fidelity, you can connect an external speaker or headphones (the cassette jacks of the //e are not present after the upgrade).

Your upgrade computer retains the same number of general-purpose expansion slots as your original //e, and most existing cards can still be used. Existing Apple //e multi-function cards are an exception, but the Apple //GS upgrade provides the capabilities (such as 80 column text, memory expansion and RGB colour video) that formerly required additional hardware.

The auxilliary slot of the Apple //e is replaced in the Apple //GS upgrade by a dedicated memory-expansion slot. Both RAM and ROM (read-only memory) can be expanded: RAM by 8 megabytes, and ROM by 1 megabyte.

Installing the Apple //GS Memory Expansion Card in your upgrade system instantly adds as much as a megabyte of RAM. The basic card comes with 256k; or the fully expanded card, which has 1 megabyte. This enhanced user memory allows you to create much larger documents with AppleWorks Version 2.0 and many other applications, and to hold large applications in memory.

The Memory Expansion Card also allows your system to run more powerful software, including Macintosh-like applications developed especially for the Apple //GS. To get the most from these advanced programs, you'll want to add the Apple Desktop Bus Mouse, the first of a new series of input devices for the Apple // family. The Apple Desktop Bus protocol allows you to "daisy-chain" as many as 16 separate input devices, such as a mouse, graphics tablet and numeric keypad.

Your existing Apple // applications also benefit from the Apple //GS upgrade. Since the system (clock) speed of the Apple //GS is 2.8 megahertz instead of the 1.0 megahertz of the Apple //e and //c, programs run up to 2.8 times as fast. The new disk drive port provided by the Apple //GS upgrade gives you easy data-storage expandability. Up to four Apple 3.5", Apple 5.25", and Unidisk 3.5" drives can be daisy-chained from the connector. The Apple //GS upgrade also adds AppleTalk Personal Network capability to your Apple //e for easy access to the Apple LaserWriter, a remote ImageWriter II printer and other AppleTalk accessories. You may also wish to add some of the other exciting new Apple accessories for which the upgrade is not required. For instance, there is the Apple Monochrome Monitor, for crisp white-on-black text and graphics, and the Apple // SCSI Card, which allows you to access the 20 megabyte Apple Hard Disk 20SC and up to three other SCSI-compatible peripherals.

The Apple //GS upgrade is a simple, dealer installed option that involves replacing the logic board and metal base pan of your Apple //e. The new logic board contains the 65C816 microprocessor, RAM, ROM, Ensoniq sound chip, expansion slots and connectors. The base pan holds the logic board securely in place in the Apple //e case.

System Requirements.

To use the Apple //GS upgrade kit, you must have an Apple //e personal computer. This upgrade is not compatible with other computers in the Apple // family.

Technical Specifications.

Consult the Apple //GS data sheet.

Apple //GS Upgrade   Order No. A2S6001

   With your order, you will recieve:

   Apple //GS Logic Board
   Apple //GS - //e Base Pan
   Apple //GS Identification Plaque
   Apple //GS Upgrade Owner's Guide

   The Apple //GS upgrade MUST be installed by an authorised Apple Dealer.

Other Accessories Scheduled for Availabilty:

   Apple Desktop Bus Mouse   Order No. A9M0331
   Apple //GS System Disk   Order No. A2D6007

No word is yet available on the release date for these products. However, we
will advise you when the dates are set by Apple Computer Australia.

[**SCUTTLE—BUTT**] from the BBS

Subject ->New Apple Releases
From   ->PAVID MAKEPEACE (#114)
Date   ->09/01/87 00:10:58

Hey everyone. Today is the 8th of January 1987 (well at least it was when I
started typing). This is the day that Apple is supposed to release most of
its 1987 products. Rumours suggest that in 1987 Apple will release more
products than it has during its entire history!!!

Of course they won't have been released yet because of   the   U.S. being
about 18 hours behind us (they may however be released by the time you
read this).

Why the 8th of January??? Well that's the day of the year that Apple has its
stockholder's meeting!!! (The first Mac was released during one such meeting
in 1983)

What products will be released???   Well there are heaps of rumours about
Colour Laser-Writers, the   Mac II and the open architecture Mac. and
absolutely piles of other products, flying around everywhere! (The problem is
that noone knows which rumours are true and which ones are made up by
hopeful Apple addicts) I have misplaced some of the more official rumours
about the new Mac.s but I will try to hammer out some of the ones that I
remember: (keep in mind that I might type some of the unofficial ones   by
mistake - or maybe deliberately to spice things up)

The "Mac II": Also known as the "Johnathon", its name may not be really
     "Mac II" but thats what everyone calls it. Most rumours about this
     mac are confused with the open architecture mac (henceforth OAM)
     which, to make matters worse, may really be the one to be known as
     "Mac II". It probably has no slots but has a seperate monitor which
     is probably B&W as standard and is probably A4 size. Almost certainly
     colour is an option of this machine. It has an MC68020 running at

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16MHz (with optional MC68881 Floating Point coprocessor).
Memory: probably 2M standard, but may be as high as 4M and as low as 1M
    standard. Expandable to 16M. Probably has virtual memory
    capabilities, and may come with an MC68451 memory management unit.
Colours: either 4096 (i.e. 12 bit) or 16777216 (24 bit) colours.
    (including different shades)
price???: probably $10000.00 ($6000.00 for UNI students due to the
    consortium)

OAM: Codenamed: "Paris".
    similar to above but probably 4M standard memory, built in 20M hard
    disk, several slots for cards. colour. optional colour A3 screen.
    Definitely an MC68451 MMU and almost certainly an MC68881 Floating
    Point coprocessor!!!! Will run System V UNIX supported by Apple and
    AT&T. (It will, of course - have full windowing under UNIX - similar
    to the famous Sun workstations. and will of course run standard Mac.
    software - probably under UNIX)
Release: March 28 1987 - one of the few products that will not make
    Jan. 8.

Well... must go
Hope some of this interrests you!!!

Disclaimer: I take no responsibility for any of this being incorrect, etc.

Subject ->RS-232
From   ->Board-Sysop PETER LANE-COLLETT (#6)
Posted   ->05/11/86 at 08:38 PM

For all those interested, here is a complete list of

RS-232 PIN SPECIFICATIONS

PIN No.	FUNCTION	ABBREV.
1	Ground	FG
2	Transmitted Data	TXD
3	Received Data	RXD
4	Request To Send	RTS
5	Clear To Send	CTS
6	Data Set Ready	DSR
7	Signal Ground	SG
8	Data Carrier Detect	DCD
9	Positive Test Voltage	
10	Negative Test Voltage	
11	Equaliser Mode	QM
12	Secondary Carrier Detect	SDCD
13	Secondary Clear To Send	SCTS
14	Secondary Transmitted Data	STD
15	Transmitter Clock	TC
16	Secondary Received Data	SRD
17	Receiver Clock	RC
18	Unassigned	
19	Secondary Request To Send	SRTS
20	Data Terminal Ready	DTR

21	Signal Quality Detect	SQ
22	Ring Indicator	RI
23	Data Rate Selector	
24	External Transmitter Clock	ETC
25	Unassigned	

Subject ->PROGRAMME FOR NEWSLETTER
From   ->RICHARD EGGLESFIELD (#16)
Posted ->19/11/86 at 07:11 PM

ANOTHER MENU PROGRAMME

Hi this is a programme that makes the prodos "Bye" command a lot friendlier. It is only of much use to either users with a hard disk or one of the 800k 3.5 drives.

I use the programme below as the startup programme on a 3.5 disk, after the disk boots you are given a menu of programmes on the disk. You can then use the Appleworks style of using either the arrow keys or typing a number to select a file (selected programmes are then shown in uppercase) press RETURN and that programme is then run. Nothing new in that I hear you say, but that's only the first part of the programme.

The guts of the programme comes into effect when you leave your applications programme instead of the usual "enter prefix" and then "enter pathname" the programme sets up the ProDos to run the first "***.system" programme on disk 1 of the slot set in line 20 (poke 8359,16 * slot).

The next point to note is the "onerr" statement, line 30, and line 630. This little trick is a way round running a programme which does not expect to run in any other directory than the original disk.

To demonstrate this I have called the disk "/apple/" but sensible speller expects to run from a disk called "/sensible00/" so to make things work out O.K. line 30 checks that a directory called "/APPLE" exists on the disk if it does not exist the ON ERR statement redirects flow to line 630 where the disk is rename "/APPLE/". The need to rename the disk comes about if the selection Sensible Speller is made. The disk name is changed to /SENSIBLE00/ before the SPELL programme is run (spell is just the renamed sensible speller startup programme). The trick of line 30 comes in when you leave the spell checker the programme Basic.system is now run by the BYE command and then it runs the startup programme and then the disk name is change back to "/apple/" by the ONERR section

Yes all these programmes fit on one 3.5 disk. Feel free to use and amend this programme as you see fit.

```
10  PRINT CHR$ (21): GOSUB 600: TEXT : HOME : POKE  - 16298,0: POKE
    -16300,0: POKE -16368,0: POKE 34,0: POKE 33,40
15  D$ - CHR$ (4) :HOME :TXT$ = "    /APPLE/  3.5 Disk Menu": GOSUB
    390: FOR U=1 TO 40: PRINT CHR$(95);: NEXT U: REM UNDERSCORE
20  GOSUB 640: POKE 8359,16 * 5: CALL 8192: ONERR  GOTO 630
30  PRINT  D$"OPEN/APPLE,S5,D1,TDIR": PRINT  D$"CLOSE"
40  PRINT : PRINT "  1. Appleworks": PRINT : PRINT "  2. Graphworks":
    PRINT: PRINT "  3. Pinpoint": PRINT: PRINT "  4.  Sensable Spelle
    r ": PRINT : PRINT "  5. Multiscribe "
50  PRINT:PRINT"  6. Quit to basic ":PRINT:PRINT " 7.  Boot 3.5 disk "
60  POKE 216,0
```

```
70   PRINT : PRINT :T = 0: FOR I = 1 TO 6: IF  PEEK (I + 839) = 1 THEN
     HTAB(1): VTAB 2 + (2 * I): PRINT " "
80   IF  PEEK (I + 839) = 1 THEN J = I + 1:T = 1
90   NEXT I: IF T ' > 1 THEN J = 1
100   GOSUB 400: VTAB 19: PRINT : PRINT "Type a number, or select with t
     he UP or DOWN ARROW key. Then press RETURN.": FOR I = 1 TO 40:
     PRINT "_";: NEXT
110   VTAB 24: PRINT "  Written 1986 R. Egglesfield.";
120   VTAB 21: HTAB 35: CALL  - 868: GET A$: IF  ASC (A$) = 27 THEN GOTO
     120
130   IF  ASC (A$) = 13 THEN  GOTO 290
140   IF  ASC (A$) < > 10 AND  ASC (A$) < > 11 THEN 200
150   IF  ASC (A$) = 10 THEN K = J:J = J + 1
160   IF  ASC (A$) = 11 THEN K = J:J = J - 1
170   IF J = 8 THEN J = 1
180   IF J = 0 THEN J = 7
190   GOSUB 500: GOSUB 400: GOTO 120
200   IF  ASC (A$) = 81 OR  ASC (A$) = 113 THEN K = J:J = 8: GOTO 190
210   IF  ASC (A$) < 49 OR  ASC (A$) > 56 THEN 120
220   VTAB 21: HTAB 35: PRINT A$:K = J:J =  ASC (A$) - 48: GOSUB 500:
     GOSUB 400
230   VTAB 21: HTAB 36: GET B$: IF  ASC (B$) = 13 THEN 290
240   IF  ASC (B$) = 8 THEN 120
250   IF  ASC (B$) = 10 THEN K = J:J = J + 1: GOTO 170
260   IF  ASC (B$) = 11 THEN K = J:J = J - 1: GOTO 170
270   IF  ASC (B$) < 49 OR  ASC (B$) > 56 THEN 230
280   K = J:J =  ASC (B$) - 48: GOSUB 500: GOSUB 400: GOTO 120
290   HOME : VTAB 10: HTAB 12: PRINT "Please wait....": ON J GOTO 300,32
     0,330,340,350,360,370,380
300   PRINT : PRINT  D$;"prefix/apple/aplworks": PRINT D$"-aplworks.syst
     em"
320   PRINT : PRINT  D$;"prefix/apple/graphworks": PRINT D$"- gw.system"
330   PRINT : PRINT  D$;"prefix/apple/accessory/": PRINT D$;"-intro.syst
     em"
340   PRINT : PRINT  D$;"RENAME/Apple,/SENSIBLE001": PRINT D$"-SPELL"
350   PRINT : PRINT  D$;"prefix/apple/multiscribe": PRINT D$"-ms.system"
360   PRINT : PRINT : HOME : NEW
370   PRINT : PRINT  D$;"bye"
380   PRINT : PRINT
390  H = (40 -  LEN (TXT$)) / 2: HTAB H: PRINT TXT$: RETURN
400   ON J GOSUB 420,430,440,450,460,470,480
410   VTAB 2 + (J * 2): HTAB 6: PRINT TXT$;
420  TXT$ = "<APPLEWORKS>": RETURN
430  TXT$ = "<GRAPHWORKS>": RETURN
440  TXT$ = "<PINPOINT>": RETURN
450  TXT$ = "<SENSABLE SPELLER>": RETURN
460  TXT$ = "<MULTISCRIBE>": RETURN
470  TXT$ = "<QUIT TO BASIC>": RETURN
480  TXT$ = "<BOOT 3.5 DISK>": RETURN
500   ON K GOSUB 520,530,540,550,560,570,580
510   VTAB 2 + (K * 2): HTAB 6: PRINT TXT$;
520  TXT$ = " Appleworks ": RETURN
530  TXT$ = " Graphworks ": RETURN
540  TXT$ = " Pinpoint ": RETURN
550  TXT$ = " Sensable speller ": RETURN
560  TXT$ = " Multiscribe ": RETURN
```

```
570 TXT$ = " Quit to basic ": RETURN
580 TXT$ = " Boot 3.5 disk ": RETURN
600 FOR I = 768 TO 835: READ A: POKE I,A: NEXT I: DATA 173,50,190,72,1
    73,51,190,72,169,30,141,50,190,169,3,141,51,190,32,111,253,104,141,5
    1,190,104,141,50,190,96,32,27,253,201,155,208,7,141,0,2,169,141,162,
    1,96,162,0,32,117,253,1 60,2,1 38,145,105,200
610 DATA 169,0,145,105,200,169,2,145,105,76,57,213
620 FOR I = 850 TO 855: POKE I,0: NEXT I: RETURN
630 PRINT D$"RENAME/SENSIBLE001,/APPLE": GOTO 40
640 FOR I = 8192 TO 8192 + 219: READ X: POKE I,X: NEXT : RESTORE :
    RETURN
645 DATA 173,129,192,173,129,192,162,0,189,21,32,157,0,209,232,208,247
    ,173,130,192,96,216,32,0,191,204,179,16,32,0,191,198,181,16,32,0,191
    ,197,145,16,176,121,173,149
650 DATA 16,41,15,240,114,141,149,16,169,47,141,129,2,162,0,189,150,16
    ,157,130,2,232,236,149,16,208,244,169,47,157,130,2,232,160,0,185,186
    ,16,240,7,157,130,2,232,200,208
655 DATA 244,232,142,128,2,32,0,191,200,165,16,176,60,173,170,16,141,1
    72,16,32,0,191,202,171,16,176,46,32,0,191,204,179,16, 176,38,173,130
    ,192,32,137,254,141,12,192,32,147,254,32,88,252,169,207,141,88,191,16
    9,0,162,22,157
660 DATA 88,191,202,208,250,169,1,141,111,191,76,0,32,76,142,16,2,96,1
    49,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3,128,2,0,17,0,4,0,0,32,255,255
    ,0,0,1,0,1,184,16,1,47,66,65,83,73,67,46,83,89,83,84,69,77,0
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