EPSON

Product Support Bulletin ————————————

Subject: Proper Method for Running Benchmark and Diagnostics Programs

Date: 06/04/93   PSB No: S-0158
Page(s): 1 of 1   Originator: MWT

This bulletin describes the proper method for running any benchmark or diagnostics programs. This applies to any computer system.

In most cases, the computer should be started using an MS-DOS boot diskette that's 'clean' - in other words, one with no CONFIG.SYS or AUTOEXEC.BAT files. The appropriate executable can then be run, either from diskette or hard drive.

There will be some exceptions to the above rule. In attempting to benchmark or troubleshoot any add-on that requires a device driver (CD-ROM, local area network, etc.), obviously the necessary device driver(s) must be loaded. Also, some programs will require a minimum number of FILES or BUFFERS to be defined in the CONFIG.SYS file. Such programs will usually display this requirement if they are run without the necessary CONFIG.SYS file.

For the most consistent results, use the absolute minimal boot configuration that's allowed by the hardware being tested.

Product Support Bulletin

Subject: Equity/Apex Compatibility with the SOTA 386si

The purpose of this bulletin is to provide the 80386 Accelerator board test results, conducted by the Computer Product Support Center, involving the SOTA 386si from SOTA Technology, inc.

The Equity models tested were the Equity I, Equity II Equity I + and Equity Ie. The Apex models tested were the Apex, Apex Plus and Apex 100. All were tested with Norton Utilities and MS - DOS.

The table below shows compatibility and the Norton SI rating of the various systems.

Model	Norton SI	Compatibility
Equity I	12.0	Functioned normally with Norton Utilities and MS- DOS 2.11
Equity I+	12.0/16.9	Functioned normally with MS - DOS 3.3 and Norton Utilities at both CPU speeds.
Equity Ie	NA	Unable to boot at 10MHz. Performance erratic at 4.77MHz
Equity II	14.3	Functioned normally with MS - DOS 3.2 and Norton Utilities. (Tested only at 7.16MHz.)
Apex	15.9	Unable to boot at 4.77MHz. Functioned normally at 8MHz with MS - DOS 3.2 and Norton Utilities.
Apex Plus	11.5	Unable to boot at 9.54MHz. Functioned normally at 4.77MHz with MS - DOS 3.2 and Norton Utilities.
Apex 100	12.0/16.9	Functioned normally with MS - DOS 3.3 and Norton Utilities.

Installation of the board in most of the units was quick and simple to do when following the installation instructions accompanying the boards. Installation of the SOTA 386si in the Equity I and the Equity II is rather difficult. Due to the amount of disassembly required, we strongly recommend that only Authorized Service Centers install the board in the Equity I and Equity II.

<u>Installation Instructions</u>

Equity I

1. Remove the following from the main unit:
    a) upper case
    b) rear panel
    c) front panel
    d) FDD/power supply block.

2. Follow instructions for a standard installation for the SOTA 386si in an 8088 - based system.   Take care to fold the SOTA connector cable so as not to prevent reassembly.   The cable is sturdy and will tolerate being folded.

3. Reassemble the main unit and go through the testing and initialization procedure outlined in the SOTA manual.

Equity II

1. Remove the following from the main unit:
    a) upper case
    b) rear panel
    c) front panel
    d) FDD/power supply block.

2. Follow instructions for a standard installation for the SOTA 386si in an 8086 - based system.   Take care to fold the SOTA connector cable so as not to prevent reassembly. This will necessitate routing the cable so that it does not conflict with the power connection to the main system board. The cable is sturdy and will tolerate being folded.

3. Reassemble the main unit and go through the testing and initialization procedure outlined in the SOTA manual.

Our Computer Product Support Center receives numerous calls requesting information and recommendations on 80386 Accelerator boards for use with the Equity and Apex (8088- and 8086 - based) personal computers.

We have found that the SOTA 386si may meet your requirements and are competitively priced!

Although these boards were tested by qualified product support specialists, Epson America makes no representations that these third party products are compatible with all hardware configurations or software applications.

We recommend that you certify these products with your specific hardware and software requirements and consult with the third party vendor to ensure reliable operation.

SOTA Technology can be reached at:

SOTA Technology, Inc.
657 N. Pastoria Ave.
Sunnyvale, CA 94086
Phone: (408) 245 - 3366

Product Support Bulletin

Subject: Equity and Apex Series Compatibility with the System OmniBridge Controller and BridgeFiler External Floppy Drives

Date: 04/11/90   PSB No: S-0088B
Page: 1 of 3   Originator: KAS *Kas*

The purpose of this bulletin is to provide the results of compatibility testing conducted by the Computer Product Support Center with the Sysgen OmniBridge controller and Bridge - Filer external floppy disk drives.

Model	Comments
Equity I	The Equity I was found compatible with the OmniBridge controller. It was able to support one or two external disk drives (daisychained) together. The external drives could be used as high density (1.2M and 1.44M) or normal (360K and 720K) disk drives.
Equity II	The Equity II was found to be totally incompatible with the OmniBridge controller.
Equity III	The Equity III was found compatible with the OmniBridge controller. It was able to support one or two external disk drives (daisychained) together. The external drives could be used as high density (1.2M and 1.44M) or normal (360K and 720K) disk drives.
Equity I +	The Equity I + was found compatible with the OmniBridge controller. It was able to support one or two external disk drives (daisychained) together. The external drives could be used as high density (1.2M and 1.44M) or normal (360K and 720K) disk drives.
Equity le	The Equity le was found compatible with the OmniBridge controller. It was able to support only one external floppy drive, unlike the other models tested. The drive could be used as a high density (1.2Mb and 1.44Mb) or normal (360K and 720K) disk drive.

Equity II +   The Equity II + was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     1.44M) or normal (360K and 720K) disk drives.

Equity IIe   The Equity IIe was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     1.44M) or normal (360K and 720K) disk drives.

Equity III +   The Equity III + was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     144M) or normal (360K and 720K) disk drives.

Equity 386SX   The Equity 386SX was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     144M) or normal (360K and 720K) disk drives.

Equity 386/20   The Equity 386/20 was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     1.44M) or normal (360K and 720K) disk drives.

APEX   The Epson APEX was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     1.44M) or normal (360K and 720K) disk drives.

APEX +   The Epson APEX was found compatible with the
                     OmniBridge controller.   It was able to support one or
                     two external disk drives (daisychained) together. The
                     external drives could be used as high density (1.2M and
                     1.44M) or normal (360K and 720K) disk drives.

APEX 100   The Epson APEX 100 was found compatible with the OmniBridge controller.   It was able to support one or two external disk drives (daisychained) together. The external drives could be used as high density (1.2M and 1.44M) or normal (360K and 720K) disk drives.

APEX 200   The Epson APEX 200 was found compatible with the OmniBridge controller.   It was able to support one or two external disk drives (daisychained) together. The external drives could be used as high density (1.2M and 1.44M) or normal (360K and 720K) disk drives.

NOTE: The recommended switch settings for the OmniBridge controller are as follows:

1-1 DOWN	2-1 DOWN
1-2 DOWN	2-2 DOWN
1-3 DOWN	2-3 UP
1-4 DOWN	2-4 UP

These settings select NO ADDRESS for the OmniBridge BIOS and allow it to coexist with the internal FDC of the computer in which it is being installed.   This way you do not need to disable the internal FDC or connect any cables from the OmniBridge to internal floppy drives. This was found to be a universal setting for all of the computers listed above as compatible with the OmniBridge controller.

Product Support Bulletin

Subject: Tape Backup System Test Results

Date: 6/13/89

Page: 1 of 2

PSB No: S-0087

Originator: MWT

The Epson America Product Support Center has recently tested four tape backup systems:

Archive VP - 150i	Internal, 150MB
Mountain Series 4000 FileSafe	External, 40MB
Tallgrass TG - 4060 +	External, 60MB
Tecmar QT - 60e	External, 60MB

The tape drives were tested on a variety of systems (please see the notes below). In all cases, the drive manufacturer's documentation was used as a guide to installation and operation. Note that for 8086/88 computers, the XT- type settings were used. For the 80286/386 computers, the AT- type settings were used. This is important for correctly configuring the host adapters or controller cards for IRQ, DMA and I/O port address.

Archive VP - 150i

> The VP - 150i was tested on the Equity II +, III + and 386/20. Due to the capacity and nature of the drive, it is not particularly suited for use in any of the 8086/88 computers. This was the only drive supplied with Unix/Xenix device drivers. It was tested under MS - DOS 3.3 and SC0 Xenix 286 System V version 2.2.1 with no problems encountered. The VP - 150i is also Novell tested and certified under the NetWare operating system.

Mountain Series 4000 FileSafe

> The Series 4000 FileSafe was tested on the Equity II+, III + and 386/20. Due to the use of a 16 - bit controller, it was not tested in any of the 8086/88 computers. It was tested under MS - DOS 3.3 with no problems encountered. A chapter is included in the tape software documentation on backup and restore operations on a local area network, including Novell.

Tallgrass TG - 4060 +

     The TG- 4060+ was tested on the Apex, Apex +, Equity I +, II +, III + and 386/20. It was tested under MS- DOS 3.2 and 3.3 with no problems encountered. There is no documentation on LAN operations.

Tecmar QT - 60e

     The QT- 60e was tested on the Equity I +, II + , III + and 386/20. Testing was conducted under MS - DOS 3.3 with no problems encountered. The Tecmar documentation includes extensive information on installation and operation in a LAN environment.

General Notes

     Of the four units tested, the Archive and Tecmar drives offered the easiest installation. They also provided the best performance, with the Tallgrass drive giving the slowest disk-to-tape and tape -to- disk operations. All four drives were supplied with menu-driven tape utility software for the MS - DOS environment. Command-line and timed, scheduled operations are also available. As previously mentioned, the Archive drive also included device drivers for use in a Unix/Xenix environment, offering the greatest level of flexibility.

Please contact the manufacturers for additional information.

Archive Corporation
Data Storage Division
1650 Sunflower Ave.
Costa Mesa, Ca. 92626
(800) 237-4929

Mountain Computer, Inc.
360 El Pueblo Rd.
Scotts Valley, Ca. 95066
(408) 438-6650

Tallgrass Technologies Corp.
11100 West 82nd St.
Overland Park, Ks. 66214
(913) 492-6002

Tecmar, Inc.
6225 Cochran Rd.
Solon, Oh. 44139
(216) 349-1009

Product Support Bulletin

Subject: Apex / Apex Plus / Equity Series Keyboards

The purpose of this bulletin is to provide information on the various keyboards used with the Apex, Apex Plus and Equity series computers and the part numbers of the keyboard subassemblies used with these keyboards.

The Apex and Apex Plus computer keyboards are to be replaced as whole units.

The Equity series keyboards are repaired to the subassembly level.   The Equity III keyboard PCB assembly is the only one that comes with the key top set attached.

Since some of the keyboards have the same model numbers, the difference can be determined by the FCC ID number in those cases.

The chart below provides a quick reference to determine the part number of the main keyboard PCB assembly, key top set, control logic subassembly, and keyboard cable.

Apex / Apex Plus

Model	Keyboard Unit
Apex	A265091A
Apex Plus	93553905410

Equity I, II, III

Model	Keyboard PCB Assy	Key Top set	Keyboard Cable
Equity I/II	Y145501001	Y145501021	Y144305000
Equity III	KAFLZ3AEPS1	attached	KACCL600UCA

Equity I +, II +, III+, 386/20

Model	Code	FCC ID	Keyboard PCB Assy	Control Board	Key Top set	Keyboard Cable
Q203A	AA	BKM9A8Q203A	Y127501001	attached	Y127501022	Y127501031
Q303A	AA	BMK9A8Q303A	Y127501001	attached	Y127501022	Y127501031
Q203A	A103A – AA	C9S4D7Q203A	Y163502001	none	Y127501022	Y163502020
Q203A	A103A-AA	C9S4DB4701	Y163504007	Y171501017	Y127501022	Y163504006

Equity le

Model	Code	FCC ID	Keyboard PCB Assy	Control Board	Key Top set	Keyboard Cable
E1160A	-	C9S4D84701- 201	Y163504007	Y171501017	Y171501007	Y171501006

Product Support Bulletin

Subject: Installing a 3.5" 720KB FDD in the Apex Plus

Date: 4/19/89   PSB No: S- 0079
Page: 1 of 1   Originator: REM&

The newer version of the Apex Plus User's Guide states that the 3.5", 720KB
FDD is not supported however, the system has been tested with and does
support the Epson 3.5", 720KB drive (Model Code A112A - AA).

Installing the 3.5" 720KB drive as drive B:
Ensure the Drive Select jumper on the 3.5" FDD is set to DS1. Replace the
lower floppy drive with the -new 3.5" FDD. If the new FDD does not slide
easily into the lower drive slot, then the top drive and the FDD chassis will
have to be removed. The FDD chassis is held in with 1 screw on each side
of the chassis at the front behind the front panel. After these 2 screws are
removed, the disk drive chassis can be removed be lifting up and forward out
of the retaining slots at the bottom.   The 3.5" FDD can then be installed in the
lower position and the FDD chassis can then be reinstalled in the computer.
The top 5.25" FDD can then be installed and the system booted up with MS-
DOS. In order for the system to recognize the B: drive as a 3.5", 720KB FDD,
a CONFIG.SYS file with the following statement must be created or added to
the existing CONFIG.SYS file:

                          DRIVPARM = /D:1/F:2

Installing the 3.5" 720KB drive as drive A:
If installing the 3.5" 720 as drive A: it must first be installed as drive B: and
a 3.5" MS- DOS system disk must be created.   Boot the system with the
MS - DOS system disk in drive A:.   Insert a blank 3.5" diskette in drive B then
use FORMAT B:/S to format and copy the system files to the 3.5" diskette.
Use COPY A:*.* B: to copy all the other MS - DOS files from the 5.25" diskette
to the 3.5" diskette.   In order for the system to recognize the A: drive as a
3.5", 720KB FDD, a CONFIG.SYS file with the following statement must be
made or added to the existing CONFIG.SYS file:

                          DRIVPARM = /D:0/F:2

There are no dip switches or jumpers to change on the computer, but the
drive select jumper on both floppy disk drives must be set to DS1.

The 5.25" FDD can then be installed as the lower B: drive and the 3.5" FDD
can be installed as drive A:.

Product Support Bulletin

Subject: Apex Plus Hardware and Software Compatibility Lists

The purpose of this bulletin is to provide a current listing of tested hardware and software for the Apex Plus.

All testing was performed by Seiko Epson Japan and the results were supplied to Epson America. This is not an all - inclusive list; there are many hardware options and applications that will work correctly that are not listed.

Unless otherwise noted, all tests were conducted with the latest release of the Apex Plus MS - DOS operating system software and ROM BIOS.

The products tested were certified in one of three ways:

    OK   -   Product works with full functionality
    NG   -   Product does not work - see compatibility note
    *   Product works with partial functionality - see compatibility note

The information provided does not constitute a guarantee or endorsement of any particular product or any specific use or application.   Some of the products on the list may have software or hardware requirements which are not met by the Apex Plus personal computer.   Therefore, while EPSON believes the information supplied is accurate, EPSON does not assume any responsibility for use of any of the products on the attached list.

EPSON MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR' IMPLIED, WITH RESPECT TO THIS LISTING OR THE PRODUCTS REFERENCED IN THE LIST. EPSON SHALL NOT BE LIABLE FOR ANY LOSS, INCONVENIENCE OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE ANY OF THE PRODUCTS LISTED.

HARDWARE COMPATIBILITY LIST

Product	Vendor	Works	Notes
Communication			
AST 5251 Emulation Adapter	AST Research	ok	
Asynchronous Adapter	IBM Corporation	ok	
Hayes Smartmodem 1200B	Hayes Microcomputer Products	ok	
CopyllPC Option Board	Central Point Software	ok	
IBM 3278/3279 Emulation Adapter	IBM Corporation	ok	
IBM PC Network Adapter II	IBM Corporation	ok	
IBM Token Ring Network Adapter	IBM Corporation	ok	
SDLC Board	IBM Corporation	ok	
Mass Storage			
HardCard 20	Mountain Computer Inc.	ok	
Memory Cards			
Above Board PC	Intel Corporation *	ok	
Fastcard IV	THESYS Memory Products	ok	
RAMpage	AST Research	*	1
Six Pak Plus	AST Research	*	1
Peripheral Ports			
IBM Game Control Card	IBM Corporation	ok	
Parallel Board	IBM Corporation	ok	
Pointing Devices			
tight Pen	FTG - DATA System	ok	
Joystick	KRAFT	ok	
KoalaPad Touch Tablet	Koala Technologies Corp.	ok	
Microsoft Bus Mouse (5.03)	Microsoft Corporation	ok	
Microsoft Bus Mouse and Adapter	Microsoft Corporation	ok	
Microsoft Serial Mouse	Microsoft Corporation	ok	
Mouse Tablet	EPSON	ok	
Video Cards			
Auto Switch EGA	Paradise System	ok	
Enhanced Graphics Adapter	IBM Corporation	ok	
EPSON Color Graphics Adapter	EPSON	ok	2
EPSON Monochrome Display Adapter	EPSON	ok	
Hercules Graphics Adapter	Hercules Computer Technology	ok	
IBM Color Graphics Adapter	IBM Corporation	ng	3
IBM Monochrome Display & Printer Adapter	IBM Corporation	ok	
MGA Board	EPSON	ok	
Modular Graphics Card	Paradise System Inc.	ok	

HARDWARE COMPATIBILITY LIST
- alphabetically -

Product	Vendor	Works	Notes
AST 5251 Board	AST Research	ok	
Asynchronous Adapter	IBM Corporation	ok	
Auto Switch EGA	Paradise System	ok	
CopyllPC Option Board	Central Point Soft	ok	
Enhanced Graphics Adapter	IBM Corporation	ok	
EPSON Color Graphics Adapter	EPSON	ok	2
EPSON Monochrome Display Adapter	EPSON	ok	
Fastcard IV	THESYS Memory Products	ok	
HardCard 20	Mountain Computer Inc.	ok	
Hayes Smartmodem 12008	Hayes Microcomputer Products	ok	
Hercules Graphics Adapter	Hercules Computer Technology	ok	
IBM 3278/3279 Emulation Adapter	IBM Corporation	ok	
IBM Color Graphics Adapter	IBM Corporation	ng	3
IBM Game Control Card	IBM Corporation	ok	
IBM Monochrome Display & Printer Adapter	IBM Corporation	ok	
IBM PC Network Adapter II	IBM Corporation	ok	
IBM Token Ring Network Adapter	IBM Corporation	ok	
Joystick	KRAFT	ok	
KoalaPad Touch Tablet	Koala Technologies Corp.	ok	
Light Pen	FTG - DATA System	ok	
MGA Board	EPSON	ok	
Microsoft Bus Mouse and Adapter	Microsoft Corporation	ok	
Microsoft Bus Mouse (5.03)	Microsoft Corporation	ok	
Microsoft Serial Mouse	Microsoft Corporation	ok	
Modular Graphics Card	Paradise System Inc.	ok	
Mouse Tablet	EPSON	ok	
Parallel Board	IBM Corporation	ok*	
RAMpage	AST Research		1
SDLC Board	IBM Corporation	ok*	
Six Pak Plus	IBM Corporation		1

APEX PLUS Compatibility Report Notes

- Hardware -

Note 1:

RAM page
Six Pak Plus

When the machine has only 1 FDD, the "SUPERDRV" function does not work correctly and the A drive cannot be accessed.

Note 2:

EPSON Color Graphics Adapter

The screen becomes disordered when the screen is scrolled, for example executing DIR command.

Note 3:

IBM Color Graphics Adapter

The screen flashes when the system is booted and the same phenomena of Note 2 occurs when the screen is scrolled.

SOFTWARE COMPATIBILITY LIST

Product	Version	Vendor	Works	Notes
Communication				
MOVE IT	3.0	WOOLF SOFT	ok	
PC - TALK4	R.1533	Headlands Communications Corp.	ok	
Database				
dBASE III	1.1	Ashton - Tate	ok	
dBASE III Plus	1.1	Ashton - Tate	ok	
R:BASE System V	1.1	Microrim	ok	
REFLEX THE ANALYST	1985	Borland International, Inc.	ok	1
Desktop Manager				
GEM Desktop	1.2	Digital Research, Inc.	ok	
Microsoft Windows	1.01	Microsoft Corp.	ok	
Desktop Publishing				
pfs:First Publisher	1.00	Software Publishing Corp.	ok	
Entertainment				
Frogger	1983	Sierra On - Line, Inc.	ok	
King's Quest	1984	Sierra On - Line Inc.	ok	
King's Quest III	1986	Sierra On - Line Inc.	ok	
Lode Runner	1983	Broderbund Software	ok	
Microsoft Decathlon	1982	Microsoft Corporation	ok*	
Microsoft Flight Simulator	2.1	Microsoft Corporation	*	2
Microsoft Flight Simulator	3.0	Microsoft Corporation	ok	
Nightmission PIN BALL	1982	SUBLOGIC	ok	
Sargon III	1984	Haydon Software	ok	
TAPPER	1983	Mfg Corp.	ok	
Wizardry	1981	Sir - tech Software, Inc.	ok	
Zork I	R.88	Infocom Inc.	ok	
Graphics				
AutoCAD	2.52	Autodesk, Inc.	ok	
Freelance Plus	2.0	Lotus Development Corp.	ok	

Product	Version	Vendor	Works	Notes
Integrated Software				
Framework I I	1.1	Ashton - Tate	ok	
pfs:First Choice	2.00	Software Publishing Corporation	ok	
Symphony	1.2	Lotus Development Corp.	ok	
Language				
Microsoft Quick C	1.0	Microsoft Corporation	ok	
Operating System				
Concurrent PC - DOS	5.0	Digital Research Inc.	ok	
IBM PC - DOS 3.20	3.20	IBM Corporation	ok	
Xenix Operating System V for 86XT	2.1	Santa Cruz Operating Inc.	ok	
Spreadsheet				
Lotus 1-2-3	R.2	Lotus Development Corp.	ok	
SuperCalc 3	2.1	Membership Service, Inc.	ok	
Utilities				
Direct Access	4.0	Delta Technology International, inc.	ok	
Fastback Plus	5.13	Fifth Generation Systems, Inc.	ok	
Norton Commander	1.00	Peter Norton Computing	ok	
Norton Utilities	3	Peter Norton Computing	ok	
SideKick	1.56A	Borland International, Inc.	ok	
SuperKey	1.0	Borland International, Inc.	ok	
Turbo Lightning	1985	Borland International, Inc.	ok	
Word Processing				
Bank Street Writer Plus	1986	Brouderbund Software	ok	
Microsoft Word	3.1	Microsoft Corporation	ok	
WordPerfect	4.1	WordPerfect Corporation	ok	
WordStar 2000 Plus	1.00	MicroPro International	ok	
Others				
Dollars and Sense	2.0	Star/Monogram	ok	

SOFTWARE COMPATIBILITY LIST
- alphabetically -

Product	Version	Vendor	Works	Notes
AutoCAD	2.52	Autodesk, Inc.	ok	
Bank Street Writer Plus	1986	Broderbund Software	ok	
Concurrent PC - DOS	5.0	Digital Research Inc.	ok	
dBASE III	1.1	Ashton - Tate	ok	
dBASE III Plus	1.1	Ashton - Tate	ok	
Direct Access	4.0	Delta Technology International, Inc.	ok	
Dollars and Sense	2.0	Star/Monogram	ok	
Fastback Plus	5.13	Fifth Generation Systems, Inc.	ok	
Framework II	1.1	Ashton - Tate	ok	
Freelance Plus	2.0	Lotus Development Corp.	ok	
Frogger	1983	Sierra On - line, Inc.	ok	
GEM Desktop	1.2	Digital Research, Inc.	ok	
IBM PC - DOS 3.20	3.20	IBM Corporation	ok	
King's Quest	1984	Sierra On - Line Inc.	ok	
King's Quest III	1986	Sierra On - Line Inc.	ok	
Lode Runner	1983	Broderbund Software	ok	
Lotus 1-2-3	R.2	Lotus Development Corp.	ok	
Microsoft Decathlon	1982	Microsoft Corporation	ok*	
Microsoft Flight Simulator	2.1	Microsoft Corporation		2
Microsoft Flight Simulator	3.0	Microsoft Corporation	ok	
Microsoft Quick C	1.0	Microsoft Corporation	ok	
Microsoft Windows	1.01	Microsoft Corporation	ok	
Microsoft Word	3.1	Microsoft Corporation	ok	
MOVE IT	3.0	WOOLF SOFT	ok	
Nightmission PIN BALL	1982	SUBLOGIC	ok	
Norton Commander	1.00	Peter Norton Computing	ok	
Norton Utilities	3	Peter Norton Computing	ok	
PC - TALK4	R.1533	Headlands Communications Corp.	ok ok	
pfs: First Choice	2.00	Software Publishing Corporation	ok	
pfs:First Publisher	1.00	Software Publishing Corp.	ok	
R:BASE System V	1.1	Microrim	ok	
REFLEX THE ANALYST	1985	Borland International, Inc.	ok	1
Sargon III	1984	Haydon Software	ok	
SideKick	1.56A	Borland International, Inc.	ok	

Product	Version	Vendor	Works Notes
SuperCalc 3	2.1	Membership Service, Inc.	ok
SuperKey	1.0	Borland International, Inc.	ok
Symphony	1.2	Lotus Development Corp.	ok
TAPPER	1983	Mfg Corp.	ok
Turbo Lightning	1985	Borland International, Inc.	ok
Wizardry	1981	Sir-tech Software, Inc.	ok
WordPerfect	4.1	WordPerfect Corporation	ok
WordStar 2000 Plus	1.00	MicroPro International Corp.	ok
Xenix Operation System V for 86XT	2.1	Santa Cruz Operating Inc.	ok
Zork I	R.88	Infocom Inc.	ok

APEX PLUS Compatibility Report Notes

- Software -

Note 1:

REFLEX THE ANALYST

It is impossible to copy GRAPHICS.COM to a floppy disk because REFLEX THE ANALYST does not support MS- DOS 3.20.

Note 2:

Microsoft Flight Simulator (Ver. 2.1)

A mouse cannot be used with MS - DOS 3.20. As Microsoft Flight Simulator (Ver. 2.1) does not support MS - DOS 3.20, it requires MS - DOS 3.10 or previous versions to use the mouse. When you use Microsoft Flight Simulator Ver. 3.0, the mouse can be used.

PSB NO.: S-0074	DATE: 3/17/89	ORIGINATOR: REM	PAGE: 1 of 1

SUBJECT: APEX PLUS - GW BASIC 3.2 UPDATE FOR HERCULES GRAPHICS

The purpose of this bulletin is to provide information on a solution to a problem using GW BASIC in Hercules Graphics mode with the Apex Plus computer.

Epson GW BASIC 3.2 (version 1.04) and the multimode video graphics adapter in the Apex Plus support Hercules Graphics. However, when using the Epson GW BASIC 3.2 (version 1.04) for Hercules Graphics it will not work with the Apex Plus except in the following cases:

1.   When a different Hercules Graphics board is used.

2.   After enabling the Hercules mode by using another application. ie: by displaying a graph in PFS First Choice then exiting First Choice and loading GW BASIC.

This is caused by the video board check routine in the GW BASIC software which mistakingly determines that the video board is MDA.   If the Hercules mode is used by another application, it will enable the video board Hercules Graphics mode.

A new version of Epson's GW BASIC (version 1.05) has been developed to correct this problem in the Apex Plus.

GW BASIC (version 1.05) is available from Epson's Computer Product Support and will be supplied free of charge to customers who request it.   Customers can either contact Epson's Computer Product Support department by calling our Consumer Support number at (213) 539-9955, send requests via FAX (213) 530-9802 or write to:

> Epson America Inc.
> 26310 Telo Avenue
> Torrance, CA 90505

>   Attn.   Computer Product Support M/S 6-12

EPSON

EPSON AMERICA, INC.

SERVICE PRODUCT SUPPORT BULLETIN

PSB NO.: S-0065	DATE: 1/5/89	ORIGINATOR: REM	PAGE: 1 of 1

SUBJECT: DISABLING **THE FLOPPY** DISK **CONTROLLER IN EPSON COMPUTERS**

This bulletin covers the ability or inability to disable the floppy disk controller in the Epson computers.

COMPUTER	FDC CAN BE DISABLED	HOW
Equity I	No	
Equity II	No	
Equity III	Yes	CPU Board - Switch 2-3 off
Equity I+	Yes	CPU Brd - Jumper 1 in Position B
Equity II+ 10MHz 12MHz	No Yes	Multi-function Board - Jumper 2 in Position B
Equity III+	Yes	Multi-function Board - Jumper 1 in Position B - Jumper 2 in Position B
Apex	Yes	Motherboard - Remove Jumper E1
Apex Plus	No	

EPSON AMERICA SERVICE, 23610 TELO AVENUE, TORRANCE, CALIF. 90505