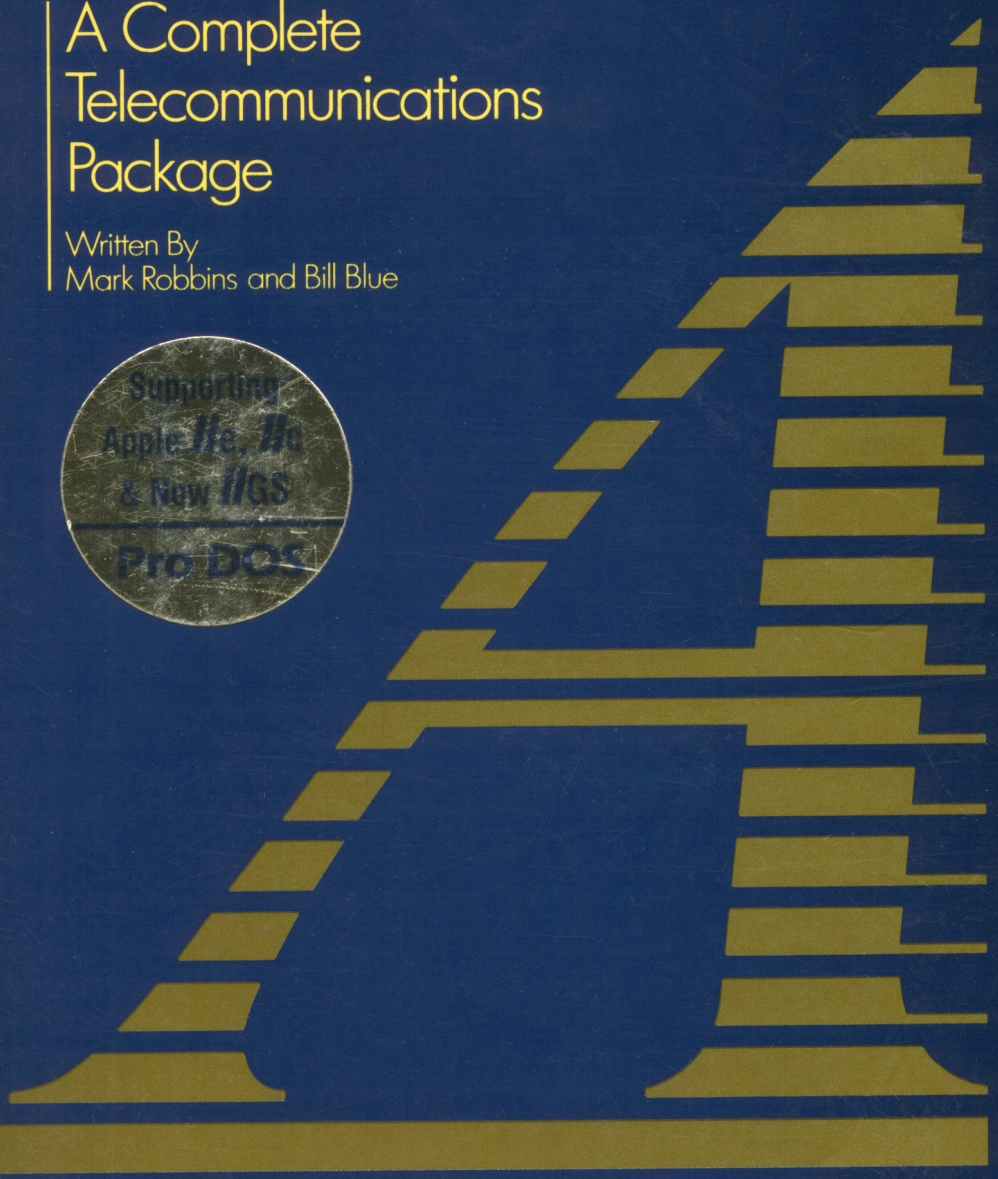
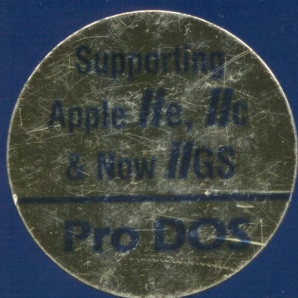


ASCII EXPRESS™

A Complete Telecommunications Package

Written By
Mark Robbins and Bill Blue



STANDARD FEATURES

A EASY INSTALLATION

A completely menu-driven installation process means you're ready for action after answering only a few questions.

A CONTEXT SENSITIVE HELP

A wealth of help messages are available at anytime while using ASCII Express. This insures you will never be at a loss.

A INTUITIVE COMMANDS

ASCII Express commands are logical and easy to use . . . "S" for sending a file or "R" for receiving a file, and so forth.

A MODEM SUPPORT

ASCII Express supports practically every asynchronous modem on the market, including Anchor Automation, Apple, Hayes, MultiTech, Novation and many more. ASCII Express also supports all standard communication speeds up to 9,600 bps.

A FULL TERMINAL EMULATION

ASCII Express emulates many popular terminals when using an 80 column board.

A PROTOCOLS

ASCII Express supports the popular Christensen (XMODEM) protocol.

ADVANCED FEATURES

A INSTALLATION

Beyond the standard options, ASCII Express' advanced installation procedures provide in-depth customization capabilities for unique communications needs.

A MACRO CAPABILITY

With ASCII Express' macro capability you can store up to 26 different macro groups, each containing all the information necessary to configure ASCII Express for a particular remote computer. An ASCII Express macro does more than simply dial a number and let you logon, it will capture all the information you want to save on a disk or send to the printer, and it automatically logs you off with the touch of a key. It's as good as having an easy-to-use programming tool (utility) within the program.

A TEXT EDITOR

ASCII Express contains a versatile built-in text editor that provides quick and easy editing of incoming or outgoing data files.

A UNATTENDED REMOTE OPERATION

ASCII Express allows you to set up a password protected remote dial-up operation. You can send and receive files while you are away from your desk, knowing that local and remote access is controlled by the ASCII Express password function. The combination of special features and ease of use make ASCII Express the choice for professional-quality telecommunications. Whether you're just getting started or are an "old pro" at data communications, ASCII Express offers tremendous capability at a very attractive price.

System Requirements: DOS 3.3 or ProDOS
Supports Apple II, II+, IIE, and IIC.

A Complete
Telecommunications
Package *PRODOS*

Written by
Bill Blue and Mark Robbins

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A Complete
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Written By
Mark Robbins and Bill Blue

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**ASCII
EXPRESS**

TM

ASCII
EXPRESSTM

Instruction Manual

A Complete Telecommunications Package

Written By
Mark Robbins and Bill Blue

Customer Service/Technical Support
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 **UNITED**
SOFTWARE INDUSTRIESTM

Y

Y Command, 75, 169

ZZ command, 75
Z-Term, 305^

^ Command, 67

This addendum describes changes made to the Install program of AE PRO. These changes have been initiated in order to support the following hardware:

Apple //c
Franklin Ace Dual Interface Card
Tone Dialing with the Novation Apple-CAT modem
and Franklin Ace computers

The procedures that follow are intended as supplemental installation instructions for use with the above listed hardware. We recommended that you refer first to the "Getting Started" tutorial, which was designed to take you through your first session with AE PRO. This should aid you in understanding and implementing these instructions.

Changes have been made to the COMMUNICATIONS DRIVERS menu in the Install program to aid in your configuration of AE PRO for use with the Apple //c and the Franklin Ace Dual Interface Card. Selections five and six on the menu have been replaced and now include selections for these communications cards. For further details on how to install either of these drivers, refer to page 117 of this manual. The selections previously in positions five and six, have been implemented as BDOS.xxxx files, which reside on side two of the AE PRO disk. Installation of BDOS.xxxx files is discussed later in this addendum.

Remember: **ALL INSTALLATION CHANGES TO AE PRO SHOULD TAKE PLACE ON A BACK-UP COPY ONLY!**

APPLE //c INSTALLATION PROCEDURECommunications Driver

To fully support the Apple //c, customized drivers have been written and can be easily installed into AE PRO. Use menu selection #5 of the COMMUNICATIONS DRIVERS menu of Install.

The next step, Current Slot (Range 1-7)? will be bypassed and slot 2 will be automatically selected.

To configure AE PRO for the console (display) device installed in your Apple //c, item four of the LOCAL CONSOLE SELECTION menu has been added. For further information on how to install this selection, refer to page 119 of this manual.

Serial Printer Port Configuration

A customized printer driver has been written for the Apple //c. To utilize this driver, the PRINTER.USER.2C driver file should be installed. Refer to pages 123 - 127 of this manual for further information.

Modifying Parameters of PRINTER.USER.2C

The following section is intended to explain how to modify the PRINTER.USER.2C driver to work with various Baud Rates and Data Word Formats.

The PRINTER.USER.2C driver was designed for use with an Apple //c and an Apple Imagewriter. The driver has been configured for operation at 9600 baud using a Data Word Format of 8 Bits, No Parity, and 1 Stop Bit. **IF YOU ARE USING AN APPLE IMAGewriter, NO FURTHER PARAMETER MODIFICATION IS NECESSARY.**

If You Are NOT Using An Imagewriter

The Apple //c printer port does not provide switch settings for the the user to select Baud Rate or Data Word Format. The Apple //c firmware internally configures the printer port to operate at 9600 baud and a Data Word Format of 8 Data Bits, No Parity, and 1 Stop Bit. Altering these parameters, normally requires that the appropriate changes be made using a ProDos Utility.

The "PRINTER.USER.2C" printer driver allows the user to select the Baud Rate and Data Word Format WITHOUT using the ProDos Utilities Disk. These selections will remain in effect the entire time that AE PRO is running and after AE pro has ended until RESET is pressed or until another program reconfigures the Apple //c printer port. To make the necessary modifications, refer to the following procedure and associated value tables.

Remember: ALL CHANGES TO AE PRO SHOULD TAKE PLACE ON A BACK-UP COPY ONLY!

The PRINTER.USER.2C driver resides on side two of the AE PRO disk. So before continuing, remove the disk from the current disk drive, turn it over, and return it to the drive. You are now ready to begin. From the DOS command prompt () or >) Enter (type) the following commands in the sequence in which they appear here:

```
BLOAD PRINTER.USER.2C
POKE 32777,___ (Consult BAUD table below for appropriate
                value.)
POKE 32778,___ (Consult DATA FORMAT table below for
                appropriate value.)
BSAVE PRINTER.USER.2C,A$8000,L$5C
```

BAUD --->	300	600	1200	2400	4800	9600
POKE 32777,___	0	1	2	3	4	5

DATA FORMAT	7E2	702	7E1	701	8N2	8N1	8E1	801
POKE 32778,___	0	1	2	3	4	5	6	7

After making any modification to the PRINTER.USER.2C file, it will be necessary to install the driver into AE PRO. Refer to the installation procedure outlined on page 125 of this manual.

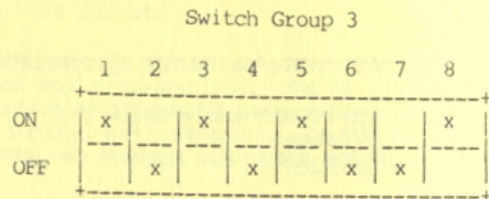
FRANKLIN ACE DUAL INTERFACE INSTALLATION PARAMETERS

To configure AE PRO for use with the Franklin Ace Dual Interface Card, the PRINTER.USER.ACE.DUAL printer driver file should be used. Refer to the instructions on page 125 of this manual for further details.

NOTE: You MUST tell Install the **PHYSICAL SLOT** in which the Franklin Ace Dual Interface Card resides (for printer and communications port).

Switch Settings

It is recommended that Switch 3 on the Franklin Ace Dual Interface Card be configured in the following way:



In addition, remove the RTS jumper labeled W1. It is located directly to the right of Switch Group 3.

INSTALLING A BDOS.xxxx DRIVER

When you enter "1" from the Main Install Menu, Install displays a list of available communications devices from which to select. If you are configuring AE PRO for use with a custom communications driver, you need only be concerned with: **99 = Install "BDOS.xxxx" Driver.**

Install will prompt you with:

Current Communications Selection: 1
New or RETURN to retain Current: 99

At the prompt, enter **99** <Return> to install a custom communications driver. Install displays:

Current Slot (Range of 1-7): 2
New or RETURN to retain Current: _

At the prompt, enter the slot number in which your communications card resides. Install displays:

Are you sure? (y/n) _

If your selections for communications card and slot are correct, enter **Y**, otherwise enter **N** and begin again. Install displays:

To install desired driver, place diskette with "BDOS.xxxx" file in current disk drive and complete the filename. RETURN alone exits.

Filename: BDOS.____

Since Utilities and custom drivers usually reside on side two of the AE PRO disk, at this point you must remove the disk from the current drive, flip it over, and return it to the disk drive. At the prompt, enter the filename of the BDOS.xxxx driver you wish to install. Install displays:

Installing Communications Driver!

Install reads the selected driver from disk and then displays the Local Console Selection Menu. Before proceeding, remove the disk from the current disk drive, flip it over again, and return it to the disk drive.

ADDITIONAL COMMUNICATIONS DRIVERS

To configure AE PRO for use with the following hardware, install the appropriate driver as outlined below. Consult the procedure described above in Installing a BDOS.xxxx Driver for further details.

Franklin Computer and Novation Apple-Cat Communications

To support FULL Tone dialing with Franklin Computers and the Novation Apple-Cat Modem, the BDOS.CAT.FRANKLIN modem driver should be used:

Entrol Systems LYNX

To configure AE PRO for use with the ESI LYNX plug-in modem card, the BDOS.LYNX modem driver should be used.

For further information on the ESI LYNX, refer to page 290 of this manual.

Micro-Peripherals Microconnection

To configure AE PRO for use with the MPC Microconnection plug-in modem card, the BDOS.MCONN modem driver should be used.

For further information on the MPC Microconnection, refer to page 289 of this manual.

PKASO PRINTER INTERFACE SUPPORT

AE PRO now supports the PKASO printer interface card by Interactive Structures. A customized PRINTER.USER.DRIVER has been added to take advantage of this cards capabilities. If you are configuring AE PRO for use with the PKASO printer card, the PRINTER.USER.PKASO driver should be used.

For additional information on installation and a list of other PRINTER.USER files, refer to the Advanced Programming chapter in this manual.

INTRODUCTION

The purpose of this addendum is to explain the differences between the Apple DOS 3.3 and Apple ProDOS versions of AE Pro. All the features of AE Pro for DOS 3.3 have been maintained in the ProDOS version. Operating changes have been kept to a minimum so that the "feel" of AE Pro is the same.

The major difference in AE Pro itself and the CHFORM utility is that the DOS 3.3 drive, slot, and volume parameters have been replaced with full prefix support. The program AERUN has been added to facilitate moving around in the ProDOS environment. In addition, a set of utilities has been provided to convert DOS 3.3 macros (.MAC files) to the ProDOS operating system.

DISKETTE CONTENTS

The AE Pro master diskette is two sided. BOTH sides are named /AEPRO/ so that the disk can be flipped over during operation without ProDOS complaining. It is necessary to flip over the disk in order to run CHFORM, enter the BASIC Interpreter, or to install P.U. or BDOS files.

The following is a list of files on the disk:

Side 1 (Volume /AEPRO/)

PRODOS	- The ProDOS operating system.
AE.SYSTEM	- Instructs AE Pro to run when this disk is booted. This is the same program as AERUN.
AERUN	- Runs AE Pro from other applications. Also takes control when AE Pro, Install, or CHFORM terminates.
AE	- AE Pro itself. From basic, type "-AE".
AE.HLP	- Help messages. Used by AE Pro.
INSTALL	- Configures AE Pro hardware/software options.
USII.BDOS	- Used by Install.
MACRO.LIB	- Macro library used by AE Pro.
xxxxx.MAC	- Macro data files used by AE Pro.
AEX.APP	- Conditionally executed when AE Pro is exited.

Side 2 (Volume /AEPRO/)

PRODOS - The operating system
 BASIC.SYSTEM - Brings up BASIC when the disk is booted.
 FILER - Apple File and Volume Utility
 CONVERT - DOS 3.3 <--> ProDOS File Conversion.
 CHFORM - A utility program for AE Pro.
 P.U.xxxx - Printer drivers. Used by Install.
 BIN.TO.MAC - ProDOS program used in macro conversion.
 MAC.CONVERT.3.3 - DOS 3.3 program used in macro conversion.

HOW TO RUN AE PRO

1. AE Pro can be run directly from the Basic interpreter by typing "-AE". After exiting AE Pro you will return to Basic. Also, because the Basic interpreter is taking up room while AE Pro is running, the copy/editor buffer will be approximately 15k.
2. AE Pro can be run by booting side 1 of the AE Pro diskette or by selecting AERUN from the Catalyst (tm) menu. When you exit AE Pro, AERUN will be invoked again (see the description of AERUN below). The copy/editor buffer size will be approximately 25k because AE Pro is the only application in memory.

AERUN - WHAT IS IT?

AERUN is an interpreter. It is actually a stand-alone program which has two functions:

1. To load and run AE Pro. When AERUN is invoked from Basic or from another application, it simply loads AE Pro into memory and executes it.
2. To intercept the exit of AE, INSTALL and CHFORM, and present a menu with several options (described in detail below).

AERUN - WHY USE IT?

AERUN can be run from the Basic Interpreter by typing "-AERUN". The advantage of running AE Pro via AERUN (versus directly by typing "-AE") is that all memory used by the Basic interpreter is freed. This results in a larger copy/editor buffer.

AERUN - WHAT DOES IT DO?

After exiting from AE, INSTALL, or CHFORM, you will return to the AERUN interpreter. At this point you will see the following menu:

ASCII EXPRESS "The Professional"
 AE Menu Program
 (C) 1984 by
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List of Possible Commands:

A = Run AE
 B = Run BASIC.SYSTEM
 C = Run CHFORM
 I = Run INSTALL
 R = Reboot System
 X = Exit to Another Application

Choice? _

The following paragraphs explain each function of AERUN:

- A -- Run AE. Load AE Pro into memory and execute it.
- B -- Run BASIC.SYSTEM. Execute the Basic Interpreter if it's available on the disk. BASIC.SYSTEM is supplied on the reverse side of the AE Pro disk. Just reverse the diskette and press "B". If BASIC.SYSTEM is located on a prefix which is higher up than the currently logged prefix, AERUN will log to that prefix and execute BASIC.SYSTEM. For example, if AERUN is located on /PROFILE/UTIL/AEPRO and BASIC.SYSTEM is located on /PROFILE/, AERUN will look for BASIC.SYSTEM in the following order:
- ```

/PROFILE/UTIL/AEPRO
/PROFILE/UTIL
/PROFILE/

```
- In this example, the system will log to /PROFILE/ and execute BASIC.SYSTEM. If AERUN cannot find BASIC.SYSTEM, it will log back to the prefix of AERUN and redisplay the AERUN menu.
- C -- Run CHFORM. Load CHFORM into memory and execute it. CHFORM is supplied on the reverse side of the AE Pro disk. Just reverse the diskette and press "C".
- I -- Run INSTALL. Load the Install program into memory and execute it. INSTALL can also be run from within AE Pro with its "%" command.
- R -- Reboot System. Allows booting the Apple from any slot or a complete system reboot (the equivalent of powering up your Apple).
- X -- Exit to Another Application. Release control to ProDOS. ProDOS will then ask for the prefix and name of the application you wish to run. If you are running under Catalyst (tm), ProDOS will return to it.

**NOTE:** If any of the AERUN choices do not appear to work, it probably means that AERUN could not find the file associated with your selection. It may be necessary to reverse the diskette.

The following list shows files required for each selection:

```

A - AE
B - BASIC.SYSTEM
C - CHFORM
I - INSTALL
R - No file needed
X - No file needed

```

#### INSTALL CHANGES

PRINTER.USER. filenames have been changed to P.U. filenames because of the 15 character filename length limitation in ProDOS.

The following DOS 3.3 Install Menu 5 items:

```

G = Override S,D,V UPON BOOTNO
H = Override Slot.....6
I = Override Drive.....1
J = Override Volume.....0

```

have been replaced in ProDOS with:

```

G = Override prefix upon boot.....NO
H = Override prefix
/

```

When OVERRIDE PREFIX UPON BOOT is set to YES, the OVERRIDE PREFIX specification determines which volume AE Pro logs to when first run. The OVERRIDE PREFIX also determines the volume that a REMOTE caller is logged to after successfully accessing the system. A full prefix must be entered.



In Install's Unattended menu, 2 new selections have been added:

T = Remote prefix Active.....NO  
U = Remote User prefix

/  
Assigning a REMOTE USER PREFIX allows the system operator to restrict access to remote users. The REMOTE USER PREFIX is active only if the REMOTE PREFIX ACTIVE option is set to YES. Again, a full prefix must be entered. Use of this feature is discussed in the **Unattended Operation** section of this addendum.

#### **PREFIXES AND FILENAMES**

Using AE Pro's I (Disk Utilities) Command:

The I command now allows logging to another prefix. The syntax is a "/" (slash) followed by the prefix. If you make an entry without the leading slash, AE Pro will assume you want a sub-directory of the current volume. If a slash is the first character, the entry will be regarded as a full prefix starting at the main directory (top level).

For example, to log to /PROFILE/UTIL/AEPRO from /PROFILE/UTIL you can either log to AEPRO or /PROFILE/UTIL/AEPRO. In the first case, AEPRO will be appended to the current prefix. In the second case, a full prefix is used so the current one is ignored.

When logging to a new drive, a single slash will log you to its main directory. For example, if you were logged to /PROFILE/UTIL/AEPRO and entered "/", your new directory would be /PROFILE. If AE Pro cannot find the requested prefix or subdirectory, no change will take place.

Entering Filenames:

At a Request for Filename prompt, you may include prefixes in the filename specification. AE Pro will operate on the specified prefix and filename but will remain logged to the current prefix. For example, if you are logged to the volume /AEPRO and save a file as /WORK/DOWNLOAD, AE Pro will save a file named DOWNLOAD to the volume /WORK. When the operation is complete AE Pro will still be logged to /AEPRO. A Save without any prefix, will write to /AEPRO since that is the drive to which you are currently logged.

As is standard throughout AE Pro, a lone "/" (slash) entered in response to a filename request, means to use the previously specified filename. If any characters are entered after the slash, they will be considered a prefix. If <c/r> alone is entered instead of a filename, a directory of the currently logged volume will display.

#### **UNATTENDED (REMOTE) OPERATION**

Remote Volume Restriction:

In AE Pro DOS 3.3 there are two ways to limit access to volumes. The first is to allow access to only certain slots, and the second is to place the file AE.NOACCESS on a volume which requires limited access. Both methods are supported under ProDOS. You MUST make sure, however, that the user is logged to one of the allowed volumes upon successful entry to the system. This is done by specifying one of the allowed volumes in Install's **OVERRIDE PREFIX UPON BOOT** selection in Menu #5.



**Hard Drive Volume Protection:**

A new level of protection has been added to AE Pro's ProDOS version which is most useful if your system is equipped with a hard drive. In Install's Unattended menu, you may set up what is called the REMOTE USER PREFIX. This is a full prefix that sets the "highest" level accessible to the remote user.

For example, if the REMOTE USER PREFIX (Unattended menu) and OVERRIDE PREFIX UPON BOOT (Menu #5) have been defined as /PROFILE/AEPRO/REMOTE/, the caller will be logged to /PROFILE/AEPRO/REMOTE/. The remote user cannot access any volume unless it starts with the prefix /PROFILE/AEPRO/REMOTE/. Any sub-directories of the REMOTE USER PREFIX may be accessed unless they are protected by AE.NOACCESS files.

**Local Keyboard Control:**

When the system is in Unattended (remote) operation, the local keyboard has full control. The local operator can enter commands for the remote user.

**NOTE:** The local operator can log to a drive that has a AE.NOACCESS file on it by simply pressing <c/r> at the ID: prompt. Under no circumstances does the remote user have this capability.

**CHFORM**

A new command has been added to CHFORM. Selection #6 allows you to log to another volume. A Catalog is also performed. This is the ONLY way to log to another volume within CHFORM.

When CHFORM converts a Pascal or CP/M text file to ProDOS format, the high-bit (bit seven) of each ASCII character in the named ProDOS file is reset (cleared). By contrast, in the DOS 3.3 environment, CHFORM will set the high-bit of each ASCII character.

Logging and entering filenames in CHFORM works exactly as described in the "Prefixes and Filenames" section, above.

**INTERRUPTS**

One of the advanced features of ProDOS is the ability to support multiple interrupt sources such as a print spooler running concurrently with a real time clock displaying the time on the screen while running a word processor. **AE Pro ProDOS DOES NOT CURRENTLY SUPPORT ANY INTERRUPTS EXCEPT ITS OWN.** All available memory, even where other interrupt drivers may be located, is used by the AE Pro copy/editor buffer and for other internal storage. For this reason, AE Pro de-allocates any previously set up interrupt vectors. If AE Pro appears to die when you run it, just press the Control and Reset keys simultaneously. This will turn off any other sources of interrupts in the system, returning control to AE Pro.

**MISCELLANEOUS ITEMS****Executing AEX on Exit:**

When the EXEC AEX AFTER ENDING AE or ON-LINE RUN options are enabled in Install, AE Pro will do one of the following:

1. If AE Pro was run from the Basic interpreter, AEX can be any type of file that will execute with the Basic "-" command. AE Pro executes the command "-AEX" when it terminates.
2. If AE Pro is NOT running under the Basic interpreter, the file AEX.APP will be executed. AEX.APP must be a standalone ProDOS application or a binary program which executes at hexadecimal memory location \$2000.



See the AE Pro manual pages 61, 131, and 164 for further details on the use of AEX.

**NOTE:** AEX.APP or AEX must reside on the same volume as AE for this option to function correctly.

#### Exiting AE Pro Directly to Catalyst (tm) Control:

If AERUN was executed under Catalyst (tm) control and you wish to bypass the AERUN menu and return to Catalyst (tm) control after exiting AE Pro, do the following:

1. Run Install and select SYSTEMS PARAMETERS MENU 5.
2. Set P = EXEC "AEX" AFTER ENDING AE to "YES".

AEX.APP will now be executed when AE Pro is exited. If you ran AE Pro from the Basic interpreter and you wish to go directly to Catalyst (tm) after exiting AE Pro, simply rename the file AEX.APP to AEX. Remember that AEX.APP or AEX must reside on the same volume as AE for this option to function properly.

#### @AE.NOACCESS Filename Change:

The filename @AE.NOACCESS has been replaced with AE.NOACCESS because the character @ is illegal in ProDOS. See the Unattended section of AE Pro's manual an explanation on the use of AE.NOACCESS files.

#### Macro File Movement from DOS 3.3 to ProDOS:

The following additional programs have been provided on the reverse side of the AE Pro diskette to allow .MAC files to be moved from DOS 3.3 to ProDOS:

CONVERT - Apple Computer Inc. utility for DOS 3.3 <----> ProDOS conversion. CONVERT is used to move MAC.CONVERT.3.3 from ProDOS to DOS 3.3. CONVERT is also used to move binary .MAC.P files from DOS 3.3 to ProDOS.

MAC.CONVERT.3.3 - DOS 3.3 program. This program must be moved from ProDOS to DOS 3.3 with the Apple Computer Inc. CONVERT utility. Converts DOS 3.3 (.MAC) files to binary (.MAC.P) files that CONVERT can move to the ProDOS environment.

BIN.TO.MAC - Basic/ProDOS program. Converts binary (.MAC.P) files to type \$f4 (.MAC) files.

To create working ProDOS .MAC files from working DOS 3.3 .MAC files, run CONVERT and move MAC.CONVERT.3.3 from side 2 of the AE Pro master disk to DOS 3.3. While in DOS 3.3, BRUN MAC.CONVERT.3.3 and convert all the .MAC files. This will create .MAC.P files. When finished, boot ProDOS and CONVERT all the .MAC.P files to ProDOS. As the final step, execute BIN.TO.MAC and convert all the .MAC.P files to .MAC files. The .MAC files are now ready for use by AE Pro ProDOS.

The MACRO.LIB file can be moved from DOS 3.3 to the ProDOS world with the ProDOS CONVERT utility. No further steps are required.



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## MOST FREQUENTLY ASKED QUESTIONS ABOUT ASCII EXPRESS "THE" PROFESSIONAL

### 1. Why does the screen just display AE: Term--> and then seem to lock up when I run AE Pro?

This is a common situation when AE Pro is used with an external ASCII commanded "smart" modem. Certain "Smart" modem commands must be entered directly from terminal mode. AE: Term--> means that AE Pro has just entered its terminal mode. At this point anything you type will go directly to the modem. For instance, to dial a number, enter "ATDT number<return>". Then you enter whatever dialing commands are appropriate TO THE MODEM.

To exit terminal mode, type ^Q (control-Q). The '+>' prompt is AE Pro's command prompt. Any commands entered at this point will be acted upon by AE Pro. To reenter terminal mode, press the spacebar.

### 2. Why does the screen display "Waiting for carrier" when I press "D" for Dial?

This situation is similar to that described in question #1 above. AE Pro's "D" and "H" commands do not operate with external ASCII commanded modems. They are intended only for internal plug-in modems. When dialing with an external ASCII commanded modem, use whatever commands are appropriate for your particular modem. Please refer to pages 33 and 35, and Section 15 of your manual, for more information.

### 3. When I press "+" to go into AE Pro's Unattended mode it bypasses the 'Waiting for Ring' message and goes right into the remote prompt, '>'?

This is another situation that is unique to external ASCII commanded modems. AE Pro continually checks to see if you are actually connected to another computer. It does this by evaluating the Carrier Detect signal line (pin 8) of your modem. If the Carrier Detect line is "forced on" (by the modem settings) AE Pro thinks you are already on-line to another system and goes straight to the Remote prompt, bypassing the expected wait for an incoming call.

For proper Unattended mode operation, the Carrier Detect signal switch (often switch #6 on the modem) has to be set to "follow true carrier detect". For this to work, pin #8 of the modem must be connected to the appropriate line on the serial interface card (often also #8). Apple //c users will find pin 5 of the



computer to be the Carrier Detect line (This is often mislabeled in some Apple documentation).

To resume outgoing calls with AE Pro, the modem switch (usually #6) should be set to hold Data Carrier Detect on.

#### 4. I can't get terminal emulation to operate.

Your computer must have an 80 column card to do terminal emulation. When you set the Incoming and Outgoing emulation tables, keep in mind that the Incoming table should be set to the terminal you wish to emulate. The Outgoing table specifies what is actually being sent to the 80 column card, and should almost ALWAYS be set to #5, Datamedia.

#### 5. What causes the loss of characters on the left side of the screen?

At high communications speeds (1200 bps and up), the screen display takes too much time to position the cursor or scroll the screen. To avoid data loss, the incoming data from the modem must have priority over other processes such as screen operation. This prioritizing is accomplished with interrupts. The communications card (or internal modem) must be capable of generating interrupts to effectively interrupt the current process (scrolling). AE Pro is fully interrupt-ready and automatically adjusts once such an event occurs.

After receiving some characters on your screen, press ^Q! (control-Q and then shift-one). If interrupts have not occurred the display will include 'Interrupts OFF'. Since interrupts are required to avoid the loss of incoming data during scrolling operations, and since AE Pro handles them automatically, 'Interrupts OFF' means that the internal modem or communications card is not generating them.

Some communications cards have a switch option for enabling interrupts. For example, on the Apple Super Serial Card, switch #2 position #6 should be in the ON position to enable interrupts. Some cards may have different switch settings, while others may require a jumper wire be added. Refer to the section entitled Interrupts, starting on page 275 of your manual for more details.

#### 6. I still don't understand how to write a Macro (or can't get them to work).

Macros can be a bit challenging at first, but following these guidelines should help out a bit. First, don't attempt writing or using macros until after you have

become familiar with AE Pro, your modem, and the communications process in general. You should be able to establish communications with other computers manually before attempting to write and use macros.

Next, understand that creating a macro is a multi-step process: defining the communications parameters for a particular host computer, producing the macro elements necessary, and adding the finished macro group to the library.

Macros have to be approached differently depending on whether you are using an internal or external modem. With an internal modem, the telephone number to dial is defined in the macro parameters and logging information is defined in macro elements. With an external modem, both are defined in the macro elements. Section 14 of your manual describes the various components of a macro and gives many examples. Section 15 of your manual deals specifically with using macros to command your external modem.

#### 7. How do I make my Novation 212A add-on board work with my Apple Cat II?

When using the 212A add-on board, it MUST be configured in the Slot-Saver mode. Refer to the Apple Cat manual for exact details.

#### 8. Why can't the CHFORM utility read my disks?

First, understand what CHFORM does. It is a format conversion program. It does NOT read or write to any but ProDOS or DOS 3.3 disks. It converts the system format of a file from one type to another, and is only used when transferring TEXT files between Apple and non-Apple systems (CP/M, Pascal, MS-DOS) using the protocol file transfer method.

For example, in the Apple textfile world, lines are terminated with carriage-returns alone. In the CP/M and MS-DOS worlds they are terminated with carriage-return/line-feed combination. In the Pascal world, they are terminated with carriage-return alone, but have a special data block in the first 1k of the file.

CHFORM resolves those format differences so that files transferred between unlike systems can take on the characteristics of the new system.

There are more details about CHFORM and other utilities starting on page 303 of your manual.



### **9. How do I configure AE Pro to work with my Apple 80 column text card?**

Your Apple //e 80 column text card 'lives' in the auxiliary slot of your Apple which is internally regarded as slot #3. No other card should be placed in slot #3 unless specifically directed by the manufacturer. AE Pro's Apple //e installation option for the console (screen) driver automatically selects slot #3 when option #4 is chosen.

### **10. How do I access my second disk drive under ProDOS?**

When you are accessing a different drive you would follow the same syntax as the operating system that you are using. For example, in DOS 3.3, any time the program asks you for a filename you can type in "filename,s6,d2" for slot 6 and drive 2. In ProDOS, when you format the data disk you have to give that disk a name. To access various drives in ProDOS, you use the name of a disk instead of a slot/drive specification. So to access a particular disk in ProDOS, enter the diskname and filename in the format /DISKNAME/FILENAME. In this example, DISKNAME is the name of the disk, and FILENAME is the actual file on that disk you wish to access. See further details of ProDOS naming conventions in your Apple ProDOS manual.



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