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Apple IIGS: Printing to the LaserWriter from AppleWorks

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The following instructions are valid for AppleWorks versions 1.3 and 2.0; earlier versions of AppleWorks have not been tested with these modifications. These changes support both the LaserWriter and the LaserWriter Plus.

You first create an AppleWorks program disk with all the files required to print AppleWorks documents to the LaserWriter and thereupon you test the disk by printing a document.

Then you can create a bootable disk that effectively reduces the number of manual steps needed to prepare the system for printing your AppleWorks documents to the LaserWriter.

Creating a program disk:

Using the System Utilities program,

- Name a disk /APPLEWORKS. For this set of instructions, we'll say the disk is a single 3.5" disk.
- Copy all files from the master AppleWorks disk to the single 3.5" disk you have named /APPLEWORKS.
- Put away the master AppleWorks disk
- Delete the old version of ProDOS 1.1.1 from your /APPLEWORKS disk.
- Copy the new version of ProDOS, P8, from the Apple IIGS System Disk to your /APPLEWORKS disk.
- On your AppleWorks disk, rename P8 with the name PRODOS.

-- Copy the following files from the Apple IIGS System Disk to your
/APPLEWORKS disk:

```
ATINIT ----- AppleTalk initialization program
IWEM ----- ImageWriter Emulator program
MTXABS.0 ---- Mousetext tool kit
NAMER.0 ----- Namer Object Code
NAMER.II ---- Namer program
CHOOSE.0 --- Chooser Object Code
CHOOSE.II -- Chooser program
```

Printing a document with AppleWorks and the LaserWriter:

You need only do steps 3a through 3f once; after that, the disk has the necessary information.

1. Plug the AppleTalk cable into the printer port on the back of the Apple IIGS.
2. Change the Control Panel Slot settings to "Your Card" for Slot 1 and to "Built-In AppleTalk" for Slot 7. (Note: If you have the newer model Apple IIGS with 1MB of RAM on the logic board, set Slot 7 to AppleTalk and EITHER slot 1 or slot 2 to AppleTalk.)
3. Tell AppleWorks how to send information to the LaserWriter:
 - a. Start up AppleWorks and choose Other Activities from the Main Menu (item #5).
 - b. Choose Specify information about your printer(s) (item #7).
 - c. Choose Add a printer (item #2).
 - d. Choose Apple ImageWriter.
 - e. To name the printer, type "LaserWriter" and press Return.
 - f. Choose Slot 7.
4. Start up the application called Chooser on your System Disk.
5. Click on LASERWRITER and choose the LaserWriter to which you want to print.
6. Quit Chooser.
7. Start AppleWorks by typing:

```
-/APPLEWORKS/APLWORKS.SYSTEM
```

Note: The Chooser and the ImageWriter Emulator

The Chooser program "CHOOSER.II" must be run and the LaserWriter selected each time your LaserWriter is turned off and on. The CHOOSER program is used to download the IWEM file from the Apple IIGS into the LaserWriter. If the LaserWriter has been powered off since the last time the IWEM program was downloaded, the AppleWorks program will not print to the LaserWriter.

A problem surfaces when a network only has one AppleTalk device available at the time of a Chooser boot. The very first time you boot the Chooser and select the LaserWriter, it will download the emulator and everything will work fine. The problem starts when the Chooser saves the user name and last selected printer to disk: when you re-run the Chooser, the one and only LaserWriter is already selected and won't let you click on it again to re-download the ImageWriter Emulator.

This has been fixed in Chooser 1.1. The only AppleTalk device that is available allows you to 're-click' on it to load the ImageWriter Emulator.

Creating a bootable disk:

To run the Namer, Chooser, or AppleWorks at boot time, create the simple startup program below and copy it to the disk. Follow the file copying instructions above in "Creating a program disk," and then:

1. Using the System Utilities

- Copy the file BASIC.SYSTEM from the Apple IIGS System Disk to your AppleWorks disk.
- On your AppleWorks disk, rename the file called APLWORKS.SYSTEM to APLWORKS
- Exit to BASIC

2. Create the following Applesoft BASIC program:

```
10 HOME : REM Startup program
20 PRINT " Program Loader ": PRINT
30 PRINT " 1) AppleWorks "
40 PRINT " 2) Chooser"
50 PRINT " 3) Namer": PRINT
60 INPUT " Enter your choice:";A$
70 A = VAL (A$)
80 ON A GOTO 100,200,300
90 GOTO 10
100 PRINT CHR$ (4);"-APLWORKS"
110 END
200 PRINT CHR$ (4);"-CHOOSER.II"
210 END
300 PRINT CHR$ (4);"-NAMER.II"
310 END
```

3. Check to be sure you entered the BASIC program exactly as shown.

4. Type SAVE STARTUP and press Return.

Boot your AppleWorks disk; the following appears on the screen:

Program Loader

- 1) AppleWorks
- 2) Chooser
- 3) Namer

Enter your choice:

Type in the number of the program you wish to run, and press Return.
Whenever you print to "LaserWriter," your output will be directed to the
last LaserWriter chosen using Chooser.

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