Inst_lling System 7.0

by Dorm n L. Bull rd

If you obt~ined System 7 in $\[Phi] p_ck_ge pro \rightarrow ided by Apple, you \[Phi] re_dy h_{\rightarrow}e inst_II_tion instructions. If you obt_ined System 7 through AMUG and took ad ant ge of the p_ck_ge deal which included "The M_cintosh Bible Guide to System 7", that also has complete inst_II_tion instructions. One of the purposes of this article is to pro-ide guid_nce for those attempting to go it without written guid_nce. There are one or two little hookers about System 7 you should know before inst_IIIng it.$

Another reason for the article is guidance for those that are going to take adate and going to take adate and going to take adate and solve the AMUG Laboratory on October 26 to have System 7 installed. To make sure you get through the process on time, there are some things you should do ahead of time.

Getting Re~dy

Before you install System 7.0, you will need to prepare your system:

1 Back up all of the files on your current hard disk before you go any further.

2 Start MultiFinder and familiarize yourself with calculating memory and ilability.

3 Upd_te all your Apple hard disks with the new dri-er on the Disk Tools disk.

NOTE 1: If you did not upd_te your Apple h_rd disk dri→er before you inst_lled System 7, do it _fterw_rd. Upd_ting the dri→ers doesn't bother the files on the disk. Just m_ke sure you do not choose "Inti_lize" by mist_ke!

NOTE: 2 Do <u>**NOT**</u> use the Apple hard disk driater if you do not have an Apple hard disk driate; In this case you need to contact your dealer or the hard driate manufacturer to make sure they have a system 7 compatible arising of their driaters. You can use a utility such $\$ s SCSI Probe to find out the manufacturer of your hard dri \rightarrow e. If you do cannot locate your hard dri \rightarrow e manufacturer for any reason, you should consider getting a third party SCSI software. "Sil \rightarrow erlining" published by La Cie is a package highly recommended

by many, and which works with almost all hard disk driaes. These packages are somewhat expensiae, so call the company to make sure the software works on your driae, or that you can return it if it doesn't.

WARNING: There are some "hacks" floating around that will allow you to use the Apple HD SC Setup to form t non-Apple driaes which the software doesn't recognize. These "hacks" inale the use of ResEdit to modify the driaer software. It is strongly recommended you do not do this. Apple hard disks hare a number of parameters established in the firmware, so these options might not be established on the driae when it is formatted. Further, many hard driaes hare driae specific parameters, some of which are not the same as those Apple uses. If you need to or wish to use software other than that which came with your hard driae, you are better of paying the (admittedly seemingly high) price for third party driaer software that is known to work with a arriety of different hard driaes.

4 Restore the name of any INITs you have pre-iously renamed. INITs must have their original names for the following step to work.

5 Run the Compatibility Checker from the "Before You Install stack". This HyperCard stack examines your set of applications and reports possible incompatibilities. Incidentally, to use the Install stack you must mode it to your hard disk dride. Don't oderlook the fact that there are two stacks to mode from the floppy.

NOTE: A new \rightarrow ersion of the comp \neg tibility checker (\rightarrow ersion 1.1) is $\rightarrow \rightarrow il \rightarrow ble$ on the "System 7.0 Goodies III" disk $\rightarrow \rightarrow il \rightarrow ble \rightarrow sp \rightarrow rt$ of the Best of... series of disks.

6 Perform the \neg ctions recommended by the $Comp \neg$ tibility Checker. The progr \neg m c \neg n mo \rightarrow e potenti \neg lly incomp \neg tible third-p \neg rty INITs from your System Folder. The comp \neg tibility checker tells you of known \neg nd possible incomp \neg tibilities. Only specified INITs need be mo \rightarrow ed. After you h \rightarrow e inst \neg lled System 7.0 you c \neg n reinst \neg II the INITs.

7 Remo \rightarrow e \neg ny disk protection from your h \neg rd disks. Progr \neg ms th \neg t pro \rightarrow ide \rightarrow irus or p \neg ssword protection could interfere with the inst \neg ll \neg tion process. Most disk protection p \neg ck \neg ges will need upgr \neg ding to be comp \neg tible with System 7.0.

Step 2, \neg bo \rightarrow e, is option \neg I of course. It is intended to help those th \neg t h \rightarrow e not used MultiFinder get prep \neg red for the *MultiFinder-like* st \neg te th \neg t is "on" \neg II the time in System 7.0.

The Inst_ll_tion:

Quick & Dirty, Safe & Sure, or Safer & Surer; Take Your Choice

There are several approaches to installing System 7. In his excellent book "The System 7 Book", Craig Daniloff calls them 1) the Quick and Dirty method, 2) the Safe and Sure method, and 3) the Safer and Surer method. We'll describe all three. By the way, I'm told this book is available at the Scottsdale Price Club, but I haven't confirmed this.

TIP: If you h \rightarrow e \land h \land rd dri \rightarrow e in \land ddition to the one you \land re inst \land lling on, you c \land n e \rightarrow en \rightarrow oid the disk insertion routine. Just dr \land g the icons of \land II the System Disks onto the h \land rd dri \rightarrow e. This will copy their contents to the h \land rd dri \rightarrow e, \land nd put them in folders with the s \land me n \land mes \land s the floppies. If the folders don't h \land →e the s \land me n \land mes, this method won't work. Then just run the Inst \land IIer from the folder on the h \land rd dri \rightarrow e. When the di \land log box comes up, you will h \land →e to switch to the h \land rd dri \rightarrow e you w \land nt to inst \land II System 7 on. Then when you st \land rt the inst \land II \land tion process you c \land n just go get \land cup of coffee. This method is prob \land bly not worth the trouble unless you h \land →e se \rightarrow er \land I system to b \land ckup. But if you do, it c \land n be \land time-s \land →er.

This "Quick $\$ nd Dirty" method inst $\$ lls the new System "on top of" the old one. All fonts, sounds, $\$ nd fkeys which were inst $\$ lled in the old system will be $\$ utom $\$ tic $\$ lly re-inst $\$ lled in the new System 7. All third p $\$ rty INITs $\$ nd Cde \rightarrow s in your old System Folder will be pl $\$ ced in the

 ϕ ppropriate folder of the new System 7. Installed desk accessories will be installed in the new Apple Menu Items folder. All other kinds of files you might have loose in the old system folder will remain there undisturbed. So, that's it. The only thing remaining is to drag the Cde \rightarrow s and INITs that the Compatibility Checker said were unidentified onto the system folder one at a time to check them to see if they work or not. Note I said "<u>on</u>to the System Folder, not <u>in</u>to it (see further comments on this matter later).

2) The Safe and Sure Method" The problem with the "Quick and Dirty" method is that there is a risk that your old System/Finder had some minor damage that had not yet become apparent. By copying $o \rightarrow er \land n$ existing System Folder you risk th $\land t$ the d $\land m \land ge$ will be c~rried into the new System. The "S~fe ~nd Sure Method" ~→oids this problem, but takes a little more work, especially, if you have installed ~ number of non st~nd~rd fonts, DAs, INITs, etc. In this method instead of installing oper the old system folder, you are going to delete the old folder before installation. This allows the installer to create a fresh, new System Folder. The problem is when you throw $\neg w \neg y$ the old System FINDER, you throw $\neg w \neg y \neg II$ the inst $\neg IIed$ desk $\neg ccessories$, fkeys, sound, and fonts. If all you have are the standard, Apple pro- \rightarrow ided resources you can just forget it and go head. Otherwise you will need to use the Font/DA Mo \rightarrow er to mo \rightarrow e the fonts into ~ suitcase file and the DAs into another suitcase file. You will also have to store in separate files any special sounds and Fkeys you have installed using whate \rightarrow er utility to used to install them originally. Make sure these suitcases and other files we'are just described are stored outside the old System file (and you might want to make a b~ckup of them onto floppies).

Also remo \rightarrow e \rightarrow II other non-system files from your System Folder to \rightarrow nother folder on the hard dri \rightarrow e. You might also wish to place the "May Not be Compatible...." file created by the Compatibility Checker into this file, and back them up also if you desire extra safety.

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NOTE: An $\tracti \rightarrow e$ $\tracti \rightarrow e$ to trashing your entire old System Folder is to trash only the System and Finder files from it, then gi \rightarrow e the folder \frown new n \frown me such \frown s "Old System." Of course this is \frown n \frown ltern \frown ti \rightarrow e only if you h \frown e plenty of h \frown rd disk sp \frown ce. Then you c \frown n run the Inst \frown ller which will \frown g \frown in cre \frown te \frown new System Folder. You c \frown n then dr \frown g the Cde \rightarrow \frown nd INIT files from your Old Folder into the new folder one \frown t \frown time.

TIP: In connection with the \neg bo \rightarrow e Note, \neg nother possibility is to make a copy of your System File on a floppy if it will fit, or another hard dri \rightarrow e. This way you don't har to worry about copying the fonts and DAs from the old System; You can do that later. In fact, it may not be intuiti \rightarrow e (\neg t le \neg st it w \neg sn't to me; it surprised me when I stumbled onto it) but if System 7 is running, you can double-click on an e \sim rlier System file, \sim nd it will open up like \sim folder just \sim s the System 7 file does. The old fonts, sounds, and DAs will be there and you can dr a g them out to a folder or $e \rightarrow en dr g$ them onto the new System 7 folder to install them!! A further $\neg d \rightarrow \neg nt \neg ge$ to this method is that you do have a fall back position. You have your old System file on the floppy, and you have your old System Folder with a new name. it will be fully intact if you haven't moded anything out of it (you could copy things from it to the new System 7 folder to make sure you have a good f \sim IIb \sim ck situ \sim tion. All you need is \sim copy of the old Finder (which you could have saved on a floppy if you desired).

<u>3) The Safer and Surer Method</u>: This method combines method 2) with a prior set of steps: those of completely formatting and testing your hard driate. To quote from Craig Daniloff again, "This step is not required, but it's a good idea, especially if your hard driate has not been reformatted in some time (or since it was brand new). It can increase the oaerall safety of your data and improae your hard driate performance."

Use the form tring software that came with your hard drie. Again, use the new Apple HD SC Setup file from the Disk Tools disk of the set of System 7 disks if your drie is an Apple proeided drie. If your drie is not an Apple drie, contact the manufacturer as noted aboe for the System 7 compatible ersion. Again, many recommend Silerlining as an alternative error to Apple's HD SC Setup software to maintain hard disk dries in a safe condition, to improe performance and to offer other utilities such as partitioning. Whateer software you use to reform tyour drie, take the time to run the hard drie tests to make sure any bad or questionable blocks are not mapped-out to preent their use.

Tips on Inst~lling INITs, Cde→s, etc. In System 7.0

One nice aspect of System 7 is Apple's attempt at helping us reduce the clutter that used to exist in System folders. It does this by creating sub-folders within the System Folder These \neg re n \neg med "Extensions," "Preferences," "St \neg rtup Items," "Control P \neg nels," \neg nd "Apple Menu Items." "Extensions" is the new n \neg me for both Cde \rightarrow s, INITs, \neg nd other such resources. The System 7 "correct w_y" of inst_lling Fonts, Desk Accessories is to dr_g them <u>on</u>to (Not <u>in</u>to) the System Folder icon. When you do, System 7 will _n_lyze the file type, decide where it should go, _nd politely _sk if putting it there is OK with you. Here is _n ex_mple di_log box:



This is \neg II \rightarrow ery ne \neg t \neg nd in the future. when \neg II the Extensions (\mathbb{C} de \rightarrow s, INITs, etc) and Control Panels have been updated, this will be all you need to know. In the meantime, although this will work most of the time, sometimes some experimenting is required. Sometime these resources, or the utilities that use them do not yet know about all the new sub-folders. So, you may need to put the particular resource loose in the System folder (just open the System Folder and drag the item into it). For example, To install the $\mathbb{C}D \mathbb{R}OM$ software, place the Apple $\mathbb{C}D$ ROM INIT in the Extensions Folder. The CD Remote INIT and Foreign File Access files (ISO, High Sierr, etc) must be in the System folder itself (not in the extensions folder). Another factor, if you are using an INIT control \mathbb{C} ontrol Panel de \rightarrow ice, you should place it in the Extensions folder rather than the Control Panel where System 7 will place it if you don't inter \rightarrow ene. The reason is that the Extensions folder is executed first on startup, and you want your INIT control utility to be able to stop any INITs that might be in folders being executed earlier in the startup process. In some cases you may try putting say a $cde \rightarrow in$ one of the sub-folders, and an Alias in another. In short, you should be prepared to experiment \sim bit, or \sim sk \sim round to find the secret. So, don't gi \rightarrow e up e \sim sy on getting \sim f \sim orite INIT or Cde \rightarrow to work.

if you dr γ suitcase containing fonts or desk accessory onto the System Folder icon, the fonts are remo \rightarrow ed from the suitcase and stored in the System file, and the DAs are remo \rightarrow ed from the suitcase and stored in the Apple Menu Items Folder. In each case the now empty suitcase files just disappear, fore \rightarrow er. I mention this because it might be somewhat disconcerting if you are not expecting it. And, you $m \rightarrow y$ with to b $\neg ck$ up, putting putting some fonts or DAs into \neg suitc $\neg se$ file, $\neg nd$ you m $\neg y$ not h $\rightarrow e \rightarrow ny$ re $\neg dily \rightarrow \neg il \neg ble$ method of cre $\neg ting \neg$ suitc $\neg se$ file. You m $\neg y$ h $\rightarrow e$ noted th $\neg t$ no Font/DA mo $\rightarrow er$ utility w $\neg s$ pro $\rightarrow ided$ with System 7. There is \neg new

Font/DA Mo→er utility, →ersion 4.1. It is \rightarrow il_ble on our System 7 Goodies II disk. But to \rightarrow oid h \rightarrow ing to use the Font/DA Mo→er you might wont to create on empty suitoose ond keep it oround somewhere. When needed you con duplicote it, thus olwoys keeping or suitoose file oround for "emergencies.

Fin_Ily, \sim tip of highly question ble utility. If you drag suitcase A onto suitcase B, the contents of suitcase A are copied into suitcase B, and Suitcase A disappears. In effect, \sim merger. Mail me a quarter every time you use this. I'll soon be rich.