



# INITInfo 4.1

A Guide to INITs

by Gary Ouellet<sup>1</sup> and Glenn Brown

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<sup>1</sup> A technical note for all of you who have asked how Gary's name is pronounced — the "ou" is pronounced as 'w' (en français), so it is 'wull-lett'.

## 1. Technical Stuff

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### What is this?

When we first bought our Macs (both having been fairly advanced users of other computers) we jumped right in. **Gary:** After finding no source of information on how to solve System conflict problems, I posted a half a dozen of mine on **CompuServe** as the first **INITInfo**. The file has now been downloaded many times, and we are on our 8<sup>th</sup><sup>2</sup> revision. **Glenn:** I used to run Mac software using **Spectre 128**(a cartridge that plugs into the Atari ST and allows it to run Mac software at 8mHz on a 600 X 400 screen. The current version allows the Atari to read and write Mac diskettes directly and at full speed.) on a 4-meg **Atari Mega** computer, and I attributed most of the System crashes to the emulation. When I bought my Mac, I was surprised to discover that many of my problems were due to System conflicts.

**INITInfo** is intended to be a 'clearing house' for INIT and other System problems — we add your comments, post them, combine them with responses and solutions from other users (often, the author or manufacturer) and repost as the next version. Many of the formatting changes to **INITInfo** have been in response to reader requests. We are not a testing lab.

### Where can I find the latest INITInfo?

**INITInfo** is now posted by us on **CompuServe**, **MacNET**, and the Ottawa (Canada<sup>3</sup>) Mac BBS's (**The Jungle**: 613-233-1474, **La Jungle**/9600 HST: 819-684-0120, **MacOttawa**: 613-729-2763, and the **NCMC TCS**: 613-233-6262). it makes the rounds from there. If **GENie** had an Ottawa line, we'd upload it there as it is, it's a long distance call to Montréal for us to call **GENie**. Please feel free to post **INITInfo** wherever. We are posting the following versions of **INITInfo 4.1**:

**INIT41WD** (the fully formatted file done in **Microsoft Word 4.0**)  
**INIT41TX** (the text file)

### How To Reach Us

If you have any comments, suggestions, complains or additions for **INITInfo**, you can reach us on **CompuServe**, **MacNET**, or by leaving a message for Glenn on one of the Ottawa Mac BBSs.

Gary Ouellet  
50 O'Connor Suite 1300,  
Ottawa, Ontario, Canada  
K1P 6L2  
**CompuServe 73277,2757**

Glenn Brown  
12 Monterey Drive,  
Nepean, Ontario, Canada  
K2H 7A6  
**MacNET: GLENNBROWN**  
**CompuServe 73777,1142**

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<sup>2</sup> Or so (we lost track somewhere along the road).

<sup>3</sup> In deference to the number of US readers, we use American spellings (color instead of colour, etc.).

### Changes since INITInfo 4.0

In order to make this a more useful document to the whole Mac community, please note the following:

- all comments will be attributed/anonymous comments will not be printed. The author or manufacturer has a right to know who is complaining. We will still be including those conflicts mentioned in the program's documentation.
- non-specific problems will not be printed. It is unfair<sup>4</sup> to say 'INIT/Program ABC is garbage' without giving a specific description of the circumstances under which the problem occurred.
- problems that have been addressed with later (or current) versions will be noted in chapter 6 (when we are aware of them). It is unfair for anyone to bad-mouth a product based on their opinion of out-of-date version.
- between releases of **INITInfo**, we will be posting beta listings of the comments we are considering for the next release, to allow comment/feedback from other users and the author/manufacturer. We have moved a number of comments there to see if others can substantiate the problems mentioned.

Other changes since **INITInfo 4.0**, aside from the cover page and index, are redlined (a bar to the left), except for the tables in chapters 9, 14, 15, and 17.

### Printing

This document is meant to be printed (preferably on a LaserWriter). For best printing, select all & reformat with **Helvetica** (remember to also do the footers & footnotes). If you are using **Adobe Type Manager**, set the cdev to 'Preserve line spacing'.

### Software Used

This file was created with the help of the following software:

**Microsoft Word 4.0** - used to write the file  
**DocuComp** - we use this to compare updates of **INITInfo**  
**Exposure** - used to make screen shots  
**Navigator 2.1**<sup>5</sup> - used to access **CompuServe**  
**Studio/1** - for the covers<sup>6</sup>  
**Stuffit 1.5.1** - used to decompress files for testing  
**Vantage** - used to edit captured text  
**White Knight** - used for on-line access  
**Okyto** - we use this to send updates, etc. back and forth

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<sup>4</sup> And not very helpful.

<sup>5</sup> We are still waiting for **Navigator 3.0**.

<sup>6</sup> We plan to do a different cover every release until we get it right.

### Special Note to Authors and Manufacturers:

We are users. We are not authors, nor are we in the computer business in any way. But we try to speak for all the users out there who struggle to get their System running smoothly. We report your problems and solutions, and spend way too much time<sup>7</sup> trying to solve conflicts, yours and ours.

Obviously, we cannot buy every single bit of software that comes out or is reported herein nor can we vouch that every reported problem will duplicate itself on our or other Systems. As a clearing house and cooperative effort, **INITInfo** does its best to assist users and authors in resolving problems. If manufacturers or authors want us to test software, we will do our best if they send us the software in question, bearing in mind that we do not style ourselves as experts. Otherwise, we will post any manufacturers responses with pleasure and leave it to our readers to decide. Your feedback has been particularly helpful to us in understanding (and often resolving) INIT conflicts. Please keep the EMail coming!

### Special Note to Users

In order to be fair to manufacturers, we will no long include anonymous or non-specific problems in **INITInfo**. When reporting problems, please be sure that you have carefully isolated the problem INIT (or program), by duplicating the problem with only those INITs involved active.

One reason you should send in your registration card when you purchase software is that most manufacturers are continually updating their products in order to eliminate the kinds of problems mentioned in this document. We suspect that some of the problems mentioned herein are solved by current versions, which is why we ask you to mention version numbers when you advise us of conflicts — this permits manufacturers to advise us if later versions correct the alleged problem (see Chapter 5).

<sup>8</sup>  
Disclaimer

This document contains advice and reports from Mac users. The problems and solutions users kindly send to us or gleaned by us from message boards may be isolated, may only occur on one particular System configuration, may be the result of an unreported INIT in their System, or may even be inaccurate. Unless otherwise suggested, they are the observations of the identified contributor only. INIT conflicts are real and if a suggestion helps you, good. If you have a better suggestion or a different experience, let us know. Manufacturers — don't get mad, get even — let us know if someone is wrong. This is one of the purposes of **INITInfo**: to encourage a dialog between users and authors on system conflicts.

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<sup>7</sup> And money.

<sup>8</sup> This is the obligatory disclaimer disclaimer: we make no claims regarding anything, nor do we guarantee that **INITInfo** will improve your life in any measurable way.

**FREEBIEWARE!**

Although many of you have suggested that we should charge for **INITInfo**, we have resisted. All users can enjoy this to their hearts' content, for free. Mac user groups may reprint and distribute **INITInfo**, so long as no specific charge (other than the normal media or newsletter charge) is levied for this info, and so long as credit is given (we would, however, appreciate a copy of any newsletters that reprint **INITInfo**). However, manufacturers do not get off so easy. All manufacturers who make commercial use of this information should send us immediately, and without charge, all their software, hardware, and their firstborn. Most grateful. So kind.

## 2. Introduction

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As any Mac owner knows, one of the joys of the computer is installing Startup files (INITs) and Control Panel devices (**cdevs**), many of which can be found on either a Freeware or Shareware (Happiware? Beerware?) basis on **CompuServe** and other sources. The temptation is compelling. All you have to do is drag the file into your System file and reboot. Some of the INITs are what makes us Mac fans in the first place.

But as we also know well, many of these same toys conflict with each other, or with applications. **init cdev 2.0** is an INIT which permits you to turn on or off an INIT from the Control Panel without dragging the file out of the System Folder, and is quite indispensable (there are other INITs which accomplish much the same thing, such as **Answer** or **INIT Picker**). Some INITs, such as **Boomerang** and **Findswell**, can turn themselves off when you run a specific application.

We are Mac fans — and consider the IBM/MS-DOS technology more befitting the dark ages. Yet we are equally mindful of the great advantage that IBM has over the Mac (other than sane prices) — and not insignificant at that: MS-DOS machines (hardly) ever crash and Macs crash all the time (or so it seems).

The rub, alas, is that when a program or your System starts crashing on the hour, it is quite an ordeal to find the culprit. Sometimes, the easy way is to remove the latest INIT you installed, reboot, and hope for the best. When this does not work, or you get a new application that will not work properly, you are forced to de-install all your INITs, add them one by one, rebooting each time, and trying out the application again: an arduous task. **Gary:** It took me the longest time to figure out why **Zippy** or **Eliza** would not talk to me, even though I had **MacInTalk** installed. The culprit was **MacroMaker** from Apple itself! — we use **QuicKeys** instead, although in our opinion the really great macro program has yet to be written.

The manuals that accompany INITs are not always of great use — for instance, the instructions for **Tablecloth**, a screen utility program from User-Tek, state “*Tablecloth is not necessarily compatible with other INITs you may have in your folder — if in doubt, put the others in a folder to prevent them from being launched.*” Sure. As useful as telling you to buy low and sell high. As mentioned above, when the problems follow the installation of a new INIT, the solution is clear: remove the INIT. But when you get a new application, or one you have not used in a long while, and it does not work or crashes or behaves badly, which of your installed INITs is the culprit? This is the real problem.

It also struck us that many users know of the existence of conflicts and might share this knowledge — there doesn't seem to be any readily available source that we know of which gives this information, other than a tidbit here and there in a book or magazine. Many of you have contributed. Did we miss some that you know about? We have expanded this list to include other non-INIT conflicts as well.

Knowing the problem is half the battle. We are prepared to live with some of the the more minor problems despite their quirks, because we love the INITs in question so much. But at least we know that the problems are of our own doing.



### 3. For Beginners

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What are usually called ‘INITs’ are in fact three different kinds of System files, INITs, cdevs and RDEVs (generally all referred to as INITs). These are files that you just drag into your **System Folder**, reboot, and suddenly your Mac starts doing wild and wonderful things. Nothing complicated in the installation process — their ease of use is part of their attraction. Some show icons on the screen at startup, some do not. Some can be controlled through the **Control Panel DA** (under the Apple menu) and others cannot — they lie in quiet residence.

There are three main types of System files **INITInfo** deals mainly with the first two:

#### INITs

INITs are Startup documents (similar to ‘Terminate and Stay Resident’ programs like **Sidekick** in the PC world) that the Macintosh loads into memory when you start up your Mac. Many INITs also display an icon at the bottom of the screen when loading. Since INITs only load if they are in your **System Folder**, they can be turned off by dragging them out of your **System Folder** and rebooting. An easier way to regulate INITs is to use an INIT manager, such as **INIT Picker**, **Aask**, or **init cdev 2.0**. These programs allow you to turn off and on INITs without having to move the files. **INIT Picker** also allows you to easily change the order in which your Mac loads INITs. **Easy Access** and **MacroMaker** are two INITs that Apple ships with **System 6.04**.

#### cdevs

Control Panel Devices (cdevs) are INITs with one significant extra: you can access them through the **Control Panel**. This allows you to change the settings for each cdev. Apple includes **Closeview**, **Color**, **General**, **Keyboard**, **Map**, **Monitors**, **Mouse**, **Portable**, **Sound**, and **Startup Device** with **System 6.04**.

#### PRERs, RDEVs

These files are called Chooser documents because you access them though the **Chooser DA** (desk accessory). They control access to peripherals: printers, networks, etc. Apple includes the RDEV **AppleShare**, and the PRERs **AppleTalk ImageWriter**, **LaserWriter**, **LaserWriter IISC**, **LQ AppleTalk ImageWriter**, and **LQ ImageWriter** with **System 6.04**.

#### Help

There are a couple of simple things to try when tracking down an INIT conflict:

- reboot with all INITs disabled by dragging them out of the **System Folder** or using an INIT manager (see above or Chapter 11)
- if the program runs, try adding INITs one at a time (drag one back into the **System Folder**, then restart) in order to identify the culprit.
- if the problem isn’t an INIT conflict, try rebooting without **MultiFinder**, changing to monochrome (if you have a color Mac), or booting from the System disk (if any)

provided with the program. If you still can't fix things (and you're sure it's not a hardware problem), try your local Mac dealer, user group, the author, or the technical support department of the manufacturer.

- if you identify a problem that isn't covered in **INITInfo**, please let us know.
- be wary of INITs that do the same thing (even partially) — they usually cannot coexist peacefully.

#### 4. Known or Reported Problems

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- **Alt WDEF** INIT/cdev (from the doc file) - will destroy a **HyperCard** stack using 'Reports' (so watch out **Focal Point** users!) — does not work with **Microphone II**.
- I understand that **Adobe Type Manager** has a conflict with **Navigator**. This was gleaned from the pages of Feb. **MacUser**. I have not experienced any problems, but it would be worth an investigation. *John Griffin [75026,3507]*
- **Boomerang 2.0** conflicts with **Rebound**. But it is such a great INIT and it includes a rebound feature. You can also tell it to turn itself off when running conflicting applications. **Boomerang** has always been deadly with **Metcom Modula-2**. *Joe Sewell [74136,360]*. The doc file mentions of a conflict with the spelling checker in **Word Perfect 1.0.2** running 32-bit QuickDraw.
- The INIT's that come with Apple's CD ROM unit appear to be unhappy with quite a few of my working INIT's. (**Capture**, as one example) After fiddling around with most of my INIT's, the final method of dealing with the CD ROM was simply to use **INIT Picker** to run only the **CD ROM INIT**'s, which stopped a lot of odd and frustrating problems on my Mac II, when using the CD ROM. I don't like giving up use of my INITs, but getting info off of the Apple CD ROM unit was otherwise associated with a lot of strange problems. *Rod Paine/ASTEC Co. [72017,117]*
- **Colorfinder** - bombs at startup if allowed to grow over 90-100k by adding new icons. Solution: make a second **ColorFinder** with another name (eg. **Colorfinder2**) and paste the new icons into it, deleting original icons *Rachel R. Caspi, PhD*. A better solution<sup>9</sup> may be to increase **ColorFinder**'s memory allocation using **ResEdit**. *GB*
- **Cmdr. Dialog II** from Andrew Welch is a really nifty INIT that allow you to answer dialog boxes with a single keystroke and all sorts of other neat things. But it is totally incompatible with **AutoMac III**, a macro maker that's bundled with **Microsoft Word 4.0**. The problem appears to be that **AutoMac III** interprets whatever **Cmdr. Dialog II** does with dialog boxes as keyboard commands, (**AutoMac** can be almost totally keyboard driven and customized for certain keystrokes) and immediately tries to do something the minute it's invoked, because of whatever **Cmdr. Dialog II** is saying to it. **AutoMac** works fine so long as **Cmdr. Dialog II** isn't loaded. *Steven L. Fair [76530,406]*
- **DeskTop Manager** - is a System file that Apple bundles with **AppleShare** which replaces the invisible DeskTop file. The advantage of **DeskTop Manager** is that it speeds access to your desktop, particularly for those with large hard drives. My problems with DeskTop Manager illustrate one of the problems in testing INITs and cdevs: The first time I tried installing **DeskTop Manager**, I lost Control Panel access to **Boomerang 2.0**, **CE Toolbox 1.2**, **DiskExpress II 2.03**, and **init cdev 2.0** — my solution was to trash **DeskTop Manager**, recopy the cdevs to my hard

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<sup>9</sup>

I wish I understood color icons better. Regardless of how I adjust the sysz resource for **ColorFinder** (or **Icon Colorizer 1.2**), I am unable to get all of my color icons to display properly. If anyone has any suggestions, please EMAIL them to us. Thanks, Glenn.

drive, and rebuild my DeskTop<sup>10</sup>. After Gary told me that he had no such problems, I tried **DeskTop Manager** again without problem. **DeskTop Manager** tends to confuse **Colorfinder** and **Icon Colorizer** (both of which allow you to display color icons on your desktop). *GB*

- There is a problem with **Dimmer** under **System 6.0.4** on my Mac II. The problem does not exist under **System 6.0.3**. I've advised Web Phillips and Dave Winzler at Microseeds Publishing about this **Dimmer** problem and **System 6.0.4**. **Dimmer** appears to be effecting (disrupting) the modem port for about 10 seconds after it is activated, or becomes active. After that time, the port is again active. (available for the telcom program in use.) If you're using a telcom program doing an XMODEM transfer and your XMODEM is setup to make repeated attempts to get errored blocks, you will continue the xfer after **Dimmer's** 10 second disruption. (for lack of a better term) The problem is when you're using a forward error correction scheme, like **CompuServe's** QuickB protocol, which can't tolerate such a long disruption at all. The same problem exists with **AppleLink** and the file xfer protocol they use. **GENie**, while attempting a YMODEM xfer, will crash the xfer immediately, of course. ZMODEM, on the other hand is recoverable, if **GENie** doesn't time out. *Rod Paine/ASTEC Co. [72017,117]*
- **DiskExpress II 2.04** - (from the doc file) does not work with **TurboCache** or **TurboCharger**. *GB*
- **Fetchit** (from doc file) - when **Rebound** or **Boomerang's** rebounding feature is active, **FetchIt** will not select the proper file is one selected a folder prior to choosing Find File.
- **Fish** - Fun little thing but appears to take a ton of System memory and causes the application cursor to flicker when moving. I love the action and the idea but have concluded I can't live with flickering cursors so it's into the demo box for **Fish**. *David Beatty [73607,3332]*
- **Flashwrite 1.1**- copy and paste don't work with **Word 4.0** but seem to work OK with **QuarkXpress 2.12**. *GO* If you call it up while reviewing a **CIS Navigator** session, **Navigator** will no longer access face files. *Tom Petaccia [76702,563]*
- **Freshstart 1.3** conflicts with **aShowpict** (the colors on the screen go nuts). *Please note the following reply from the author of Freshstart:* I just downloaded your most recent **INITInfo**, and had a few comments. First, you're performing a valuable service, which I thank you for. Second, you report a number of bugs in **FreshStart**. These bugs have been, for the most part, eliminated or documented. (Some of the 'bugs' in **FreshStart** are not in **FreshStart** itself, but are bugs in other INITs that show up in the somewhat more demanding **FreshStart** environment. All of these that I am aware of have been documented with workarounds, including special case code in **FreshStart** where appropriate). **FreshStart V1.2** is much more stable than earlier ones, and **FreshStart** itself is among the most powerful INIT managers available. In particular from your list, V1.2 works perfectly well with

<sup>10</sup>

If you find that your desktop is taking longer and longer to display after moving or copying files, you can speed it up by rebuilding the desktop file (hold down the option and ☐ keys while booting). You'll lose the information (☐-I) attached to each file, but things should speed up. **DiskExpress 1.5** also has an option to compact your desktop that does not delete any information.

**QuicKeys, Suitcase II, and CPS Delete Tracking.** Of these, **CPS DeleteTracking** does require special casing, but this is a problem with their code, not mine. (It would conflict with **Shield** if **Shield** came first, for example). I just wanted you to know that I make every effort to eliminate reported bugs, and have done so in the above cases. *Bob Hablutzel Author of FreshStart* • A new version, **Freshstart V1.3** has now been uploaded. From the doc file: conflicts with **MPW 3.0**.

- I love what Bob Hablutzel's **FreshStart 1.5** does and talked to him by landline about problems I was having with v 1.4. I got v1.5 and worked with it for about 4 hours trying to resolve several problems. The last one I had and could not solve was crashing **Pagemaker 3.02**. Since I had to get some work done I removed **FreshStart** and my problems with **Pagemaker** stopped. I have not found time to reinstall but if I can get it to work, will certainly be glad to send him my registration fee. By the way if you have been using **Aask** and so I understand, some of the other 'INIT pickers', Bob cautions you need to turn on all INITs and cdevs before restarting with **FreshStart** as they will otherwise not be recognized. Bob explained that **Aask** changes the 'code' to deselect while **FreshStart** just does not turn them on or make active. cdevs will still show up in the Control Panel even though not in use. *Jim Moore [74736,2567]*
- I have been struggling with **Fresh Start 1.5** and have finally given up! I like what Bob is trying to do, but there are just too many problems to overcome. **Thunder II** is a prime example. If you opt to have **Fresh Start** clean up the System Folder (a definite "no no") **Thunder II** will lose track of its dictionaries. There is no way that you can get it to load them again. That was with version 1.4. In version 1.5, **Thunder II** refused to load at all (the bootup procedure was frozen at the point where **Thunder** was to load). It didn't matter where you put **Thunder** in the order of things, or even give it the distinction of being the only INIT to load. It just wouldn't budge! So, regrettably, **Fresh Start** has been laid aside. It's back to **init cdev** and the manual process of picking and choosing at the startup. *John Griffin [75026,3507]*
- **Front & Center .96** - the rotate buttons in the Rotate View dialog box in WCLB will not work if the box comes up anywhere else on the screen. It appears that the buttons continue to work from the original screen positions. *R.M. Lilienthal [73210,2250]*
- **Games** - most games, particularly protected games, run best when run with a clean System (no cdevs or INITs). Either boot off a floppy System or use your favourite INIT manager to temporarily turn off all INITs. Examples include: **Pool of Radiance**, **Beyond Dark Castle**, **Road Racer**, and **Gauntlet**. Notable exceptions: **Shanghai**, **Tetris**, and the new graphic adventures from Infocom, all of which seem to run under all System configurations, including color. *GB*
- **HandOff 1.1.2** hangs in an endless loop if **Findswell 2.0** is installed. *Drew Woloshyn* The current version of **HandOff** (1.12) does not work with **DeskTop Manager**. The next version of **Handsoff** will work with both, and is expected to be out by the end of the month. *Dean Wette [72317,2034]*

- **hierDA 0.9984** - You get hooked on this freeware which allows menus to pop up anywhere on the screen. However, note the following: “Our MIDI sequencer, **Vision**, is not compatible with **hierDA 0.9984** – we implement hierarchical menus for on-line help and window/file selection.” *M3 Sweat Opcode Systems*
- **HigherMenus** - (from the doc file) cannot coexist with **MasterJuggler**. *GB*
- **Icon-It!**: There is now a version 2.0 that seems to be much more stable, and has some nice new features too. The program still won't work properly with any version of **Helix** from Odesta, however, and the new, improved manual says so. By the way, Olduvai Software no longer owns **Icon-It!** It's owned by Tactic Software (305) 378-4110 and (800) 344-4818. Tactic seems to be much more responsive and helpful. When running **Icon-It!** under **MultiFinder**, it's a good idea to allocate an addition 20-30K to the partition size of the program. (You can increase the allocated memory through the Get Info dialog box.) *Steven L. Fair [76530,406]*
- **Lookup INIT 2.0** - conflicts with **Timbuktu**. *Dave Johnson, Working Software [76004,2072]*
- **MacPuke** interferes with **Microsoft Mail** (and here's the scary part:) **even if it is removed**. The only fix is to reinstall your System. *Dave Giles, Up & Running Systems*.
- **MacroMaker** conflicts with **MacInTalk** applications (eg. **Zippy**, **Eliza**), with **Microsoft Works**, and possibly other applications. Use **QuicKeys**, **Tempo II**, or some other stable macro utility. **SuperCard** has problems with Apple's **MacroMaker** — doesn't seem to actually do any harm, but gets confused about its position in the menu bar. (from David Coldrick) *Joe Bates [72410,27]*. SumaGraphics **MacTablet** (a graphics tablet) won't run with Apple's **MacroMaker** installed. *Curtis Corlew [73437,732]*
- **MacTools 7.2** contains a bug that can cause a crash when **Pyro!** 3.x is installed (or possibly without **Pyro!** 3.x), when the Undelete Files menu item is chosen and then the Save Deletes button is clicked. Technical description of the bug: **MacTools** passes the contents of an uninitialized variable to SetPort. If it doesn't crash, it's just luck the presence of **Pyro!** 3.x may happen to make **MacTools 7.2** unlucky (depending on which other INITs are installed). On my system, the crash does not occur if **TOPS** is also installed, but does occur if **TOPS** is not installed. With respect to the bug, this is just coincidence. To fix the bug in **MacTools 7.2**, apply the following hexadecimal patch. If you use **MacTools** to make the patch, be sure to patch a copy of the program instead of patching the program that is actually running. The patch is located in block 198 (C6 hexadecimal) of **MacTools 7.2** at offset 70 hexadecimal bytes within the block:  
 old contents: 206E 0008 2050 3F10 206E 0008 2050  
 change to: 3F10 4868 000A 486E FFF8 A874 6004  
 Note for users of other patching utilities: the 'old contents' is not a unique pattern within the file the instance to be patched is the second occurrence. *Steve Brecher<sup>11</sup> [70001,1011]*

<sup>11</sup>

- **MasterJuggler** and **Suitcase II** conflict with each other. This is not a problem – they both serve the same purpose, so choose the one you want to use. *GB*
- **MenuClock** is incompatible with most (if not all) MIDI software *M3 Sweatt Opcode Systems, Inc.*
- **MultiClip** acts strange if you have too many INITs in memory. In particular, it simply fails to copy, cut, or paste to a clip frame although it ‘acts’ like it is completing the operation just fine. *John L. Moss [72537,24]* However, note the following solution: John L. Moss complaint about **MultiClip** had been documented in the User Manual page 86 (but who reads manuals, right?). **MultiClip** uses ‘System Heap’ for memory, and if there isn’t enough, it will act the way he reported it. Tell him to use **HeapFixer** and leave about 100 - 150k free. *Herb Goodman [73300,3273]* **MultiClip** interferes with the printing of **PageMaker** documents to the LaserWriter. Specifically, a document sent to the printer calls up the **Print Monitor** function which, after a moments, gives way to a printer error message. By experimentation I discovered that the removal of the **MultiClip** INIT cleared up everything. *Bill McCarthy [76274,462]*
- **myDiskLabeler 2.9.1** - crashes if you have **MasterJuggler** or **Suitcase II** installed. *GB*
- **Open It!** cannot work with **MacroMaker**. When you try to open **Open It!**, **MacroMaker** opens instead. *Roberto Montandon , Italy(BIX: montandon)*
- **Oscar & No Icon** - There's some sort of conflict between **Oscar the Singing Trashcan** and the **No Icon** INITs that I don’t entirely understand. In brief, what happens after turning the **No Icon** INIT ‘on’ with INIT manager ... 1) INIT manager icon appears at Startup (that's normal, but then) 2) **Oscar** icon covers **INIT Manager** icon, 3) All other active INITs' icons appear. *Fred Bals*
- **Pop Keys** - “I have trouble with Pop Keys INIT with **MultiFinder**. Do you know anything about it? When both are running I crash just after the screen the desktop appears on startup” -*Robert Greenberg [72657,1475]* After an earlier version of this list appeared Robert Greenburg had good news to report: Gary, Thanks to you and Stephen Flemming I got the solution to my problem. Stephen posted a msg with a possible fix but Carlos Weber then responded with the proper solution. I’ve have included it here. It may be of some help to others.  
 “The real problem with **Pop-Keys** under **MultiFinder** is not quite as you described. It has to do with the presence of any **unnamed FKEYS** in the active System (or in any suitcase files if you are using **Suitcase II**). If you use **FKey Manager** to give names to all your FKEYs, especially including 3 and 4, which come unnamed with fresh Apple-issue Systems, then **Pop-Keys** will work fine with **MultiFinder**. This is my problem, by the way, and now that I am moved into a new house and have unpacked my computer again, a new version of **Pop-Keys** may see the light.”  
 The documentation for **FKey Manager** lists the following as not running with **Pop-Keys**: **Dark Castle**, **MacLightning 2.0**, and **LaunchKey**.
- **Pyro!** conflicts badly with **Chessmaster 2000**. If the screen saver's display is running when **CM 2000** makes a move, RAM is corrupted, causing illegal moves,

preventing your legal moves, triggering System crashes, and, in one case, damaging the **CM 2000** disk itself. *Steve Jong*. **Pyro!** gets in the way (somehow) of **MacTools'** UnDelete Files function (See the **MacTools** note for Steve Brecher's patch to fix this problem). Turning **Pyro!** off via the Control Panel before selecting UnDelete is safe, however. *Joe Sewell [74136,360]*

- About an hour's worth of testing indicates to me that **Quickspool 1.0** disables one of the functions of **Pyro! 3.3.1**. With **Quickspool** installed, you can activate **Pyro!**, but it won't kick in by itself. I've tried several ways to make them work together, including renaming **Quickspool** so it loaded itself ahead of **Pyro!**, but the result always seems to be the same. This is in the presence of **Soundmaster 1.2** and **SAM 1.0** (I tried renaming **Soundmaster**, too, but that doesn't help. I don't want to try renaming **SAM**, because it's supposed to lose its efficacy if it isn't loaded first), as well as **Shield 1.1**. *Floyd Kemske [73437,50]*
- **Shield INIT** and **!MacPassword** - There is an incompatibility between certain features of the v3.xx series of **!MacPassword**, and the v1.10 version of the **Shield INIT** in **SUM**. When 'Lock Protected Volumes' is checked in the Control Panel configuration of **!MacPassword**, the locking of the volumes takes place ON SHUTDOWN, not after the computer has been re-booted. And since this locking of the volume is one of the first routines run on shutdown, the **Shield INIT** has no place to write its updated files. De-selecting this feature in the **!MacPassword** Control Panel eliminates the problem, and both programs work seamlessly together in that configuration. (*Kent Zimmerman [73567,3551]*) Conflict between **Shield INIT** (1.1) and **MultiClip** (1.01) exists: When doing a Manual Key Volume Save (ie Cmd-Opt K), if **MultiClip** is enabled (on) your System will crash with ID = 02. Workaround: Toggle **MultiClip** off before doing volume save. *Herb Goodman 73300,3273*. The doc for **SUM II** points out that **Shield INIT** must be disabled before running the **PageMaker** or **Persuasion** Install programs.
- **Soundmaster v1.2** and **Jasmine's cdev v1.48** don't mix. You can't change the loading order (without **INIT Picker** or some such) because Jasmine won't let you re-name it's cdev. The problem appears when you try to mount a volume with the cdev. Screen freeze city. The problem is easy enough to fix. Trash the Jasmine cdev and use Jasmine's application to access your hard drive. I couldn't bear to give up **Soundmaster**. *Eric Clise [76220,1701]*
- **SuperClock**:
  - If you have selected the hourly chime feature of **SuperClock!**, you are using **HyperCard**, and the clock strikes, you lose all sound effects in **HyperCard** until you exit and restart the program. I'm not sure, but I think many **HyperCard** events cause the clock display to go away. *Steve Jong*
  - **SuperClock 3.8** can't play its custom chime sounds with **System 6.0.4/HyperCard 1.2.5**. *Dave Kupiec [71540,2576]*
  - The animated moose in the **Talking Moose DA** will kill **SuperClock**. *Fred Bals*.



- **SuperSpool:** note the responses from Fabian Ramirez of SuperMac Technology [76004,2330]. This is EXACTLY how we like to see this file working: direct response from the manufacturers or authors involved.
  - **SuperSpool** doesn't work with **4th Dimension Palmer Tilden [73577,2721]** Unfortunately, Acius was a beta test for **SuperLaserSpool 2.0** and at that time we were informed that the two were compatible and since **SuperSpool** is essentially a subset of **SLS**, we were lead to believe that both would be compatible. However, there is a problem with the Design Mode of **4D**, but we have gotten conflicting reports of compatibility concerning **4D**. Recently, I've been told that **SuperSpool 5.0** and **SuperLaserSpool 2.0** should be compatible with **4D 2.0x**, but users should be referred to Acius for specific information concerning compatibility.
  - **SuperSpool** and **MacTell** are not compatible. You cannot run **MacTell** if **SuperSpool** is at all active. *Robert Greenberg [72657,1475]*. What is **MacTell**? Is it a telecommunications application, and if so, does it reset the serial ports when launched? If this is the case, then there's nothing that we can do. Telecom programs should NOT be resetting active ports — this is a known problem with **VersaTerm**.
  - **SuperSpool** can get overloaded very easily. It seems if I'm printing a color doc and try anything else it's BOMB time. Kinda makes the Spooling not worth the effort. *David Beatty [73607,3332]* I've never heard of this. Did he try increasing the Print Buffer?
  - **SuperSpool 5.0** - (1) causes crashes when trying to print the score card from **World Class Leader Board** (2) will not spool color printing from anything. This has been acknowledged by SuperMac they say that since different programs print color on the IW II differently, they could not accommodate color printing. They are working on a fix. *R.M. Lilienthal [73210,2250]* One REALLY shouldn't have INITs loaded when playing games. Printing color is a unique situation and basically, not everyone is printing color in the same manner. If an application is sending information directly to the printer, then we will never be able to spool them. However, if they are going through the printer drivers, then there's a possibility that we should be able to spool color. For instance, I know that **SuperSpool** and **SuperLaserSpool** can spool color from **MORE II**, **SuperPaint 2.0**, and **CheapColor**.
- **SuperLaserSpool** causes several applications to crash on occasion, notably **FileMaker** and **MacDraw II**. *John L. Moss [72537,24]* However, note the following solution: Increase **SuperLaserSpool** buffer size — should solve problem (*Joe Liscouski*)
  - There is a problem with **FileMaker II** with spoolers. This is known and acknowledged by both sides however, with respects to other Claris products (ie **MacWrite II**, **MacDraw**, **MacDraw II**, **MacProject II**, **MacPaint 2.0**, etc.), there are no known specific problems. However, any problem that may be encountered should be reported to SuperMac and Claris for verification and/or a possible solution. I've spoken with the head of Claris Tech Support and we both want to make sure that our products are compatible. *Fabian Ramirez SuperMac Technology/SuperMac [76004,2330]*
  - "...but is your product better for other applications as well?..." I think so. Currently, our spoolers are practically the defacto standard and **SuperSpool** and **SuperLaserSpool** are the only spoolers that available on the market. **Print Monitor** comes with Apple's System software, but is ONLY compatible with

MultiFinder and LaserWriters. The AppleShare Print Server is for a network situation and **TOPS Spool** comes only with **TOPS**. But I should point out that **TOPS Spool** was actually Symantec/THINK Technologies' **LaserSpeed** product...which has been discontinued, so updates to **TOPS Spool** are an unknown factor.

- **Thunder II** spell checker and **Moiré 3.0** screen saver — If **Moiré** kicks in when **Thunder II** is active, then **Thunder** disappears when you move the mouse to return to your application. This problem was confirmed to me by Evan Gross, the author of **Thunder**. He says that it is a problem in the way that **Moiré** restores the menu bar. *Mike Schwartz [70216,334]* When **Moiré** kicks in, it does indeed knock out **Thunder II**. But you don't need to quit your application and restart. Simply call up the Control Panel, and then close it. Voila! **Thunder** will be back. *Steven L. Fair [76530,406]*
  - **TurboCache (PLI)** - The doc for **SUM II** mentions that **TurboCache** and **SUM II** are incompatible.
  - **VirexGuard INIT** must be turned off before running **SUM II** recovery or tuneup. *Dave Burnam, Symantec*
  - **White Knight 11.02**: I have discussed my problem with Tom Watson (the author of **Red Ryder/White Knight**), and he suggested that programs that modify the file manager (like **SAM**) may cause problems. (I have found that if I turn off **SAM**, I no longer have download problems with **White Knight**). He also mentioned that **DiskExpress II 2.03** and **White Knight**<sup>12</sup> don't get along. *GB*
- Widgets** - I find my System bar is always 100% dark no matter what size I make the heap. Is there a sponge in the works ? I should have said up top that I've a Raster board and an Apple color monitor so that may be the memory sponge. *David Beatty [73607,3332]*
- **WindChooser** - Conflicts with **Giffer 1.01** (Giffer quits while displaying a GIF image). **WindChooser** conflicts with **Fourth Dimension** when Eric's **NeXT**, Galen's **SmallTalk**, or Alex's **Shrinker** is chosen. **4D** quits because it cannot display the 'Structure' window in the screen background. When jbx's **NeXT** is chosen, **4D** does runs fine and the 'Structure' window is displayed. *Tony Rojko, Potomac Ventures [74007,2602]*
  - **WindowList 1.21 INIT** and **Zterm** (any version): "If you can contact the author of **WindowList**, I have a message from the **Zterm** author describing the problem and how to probably fix it. (apparently a **WindowList** bug, not **Zterm**)" *Rob Elliott [70675,1204]*  
I presume **WindowList 1.3** and **WDEF INIT** vie for the same resources — if both are installed, you'll eventually get a System crash. *GB*
  - **Zephyr** doesn't work with **SFScroll INIT** (from the doc file).

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<sup>12</sup>

Upgrades are available for both programs: **White Knight** is now version 11.04, and **DiskExpress II** is at version 2.04.

## 5. Problems Solved

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The following problems have been solved by the latest version of the software. Users should be sure to register new software asap manufacturers often mail upgrades and fixes free or at a reasonable cost.

- There are conflicts using Datadesk's **101-ADB Keyboards** with **Excel 2.2** and **SoftPC** (something to do with the programs querrying the keyboard for such as NumLock features not supported on the datadesk). Patches/fixes for both have been posted on **CompuServe** and things work hunky dorey after the fix. Looking for conflicts with a keyboard!! was one of the last places I would have thought to look!! *Jeff Swart [71210,26]*
- **Adobe Type Manager** - does not work with **Illustrator 88 v.1.83** (the reason for the 1.93 update). If you install the **ATM** patch available on **CompuServe** and other places, it fixes the letterspacing problem in **Word 4.0**. The patch allows you to enable Fractional Widths under ImageWriter settings. *Tom Petaccia [76702,563]*
- **Comment 2.0** will not operate properly on the Ici - Time Notes will not open a message window at the designated times. Deneba have agreed to provide a corrective free upgrade to 2.02 if I return my master, which I have done. *Larry Balint [73320,2632]*
- **Cricket Graph 1.3** is incompatible with the Ici, and Computer Associates is providing a free upgrade to 1.3.2 if registered users call them at (215) 889-0267. This was in **InfoWorld** a couple of weeks ago.
- The startup icon for **DiskExpress II vers. 2.00** would not appear if the Apple **CD-Rom INIT** loaded ahead of it. Interestingly, a space was left in the INIT-icon lineup where **DiskExpress II's** should have appeared and **DiskExpress II** seemed to otherwise load and operate properly. Version 2.03 of **DiskExpress II** cleared up this problem. *Jeff Swart [71210,26]*
- **Exposure 1.03** is a free upgrade for CI owners (**Exposure 1.01** wouldn't run on the CI). *GB*
- **Falcon 2.01** wouldn't run with aftermarket video cards (like the **RasterOPS 264**) the problem has been fixed with **Falcon 2.2**. *GB*
- If you use **Finale**, you should use the Command Key as the modifier key for **Suitcase II**, so that **Finale's** 'Option - About Finale...' dialog can be accessed. This isn't entirely necessary with **Finale 2.0**. *Dean Wette [72317,2034]*

- **Findswell 2.01**- this guide earlier reported problems with **Findswell**. These may well have been caused by earlier versions or indeed beta versions — we don't know. The manufacturer advises that no conflicts (other than that with **Handsoff 1.1.2**, which should be updated by the time this is released).have been reported with the current version (2.01). We have had several reports from users who are happy with **Findswell**.

- **MultiFinder 6.1b9** is not compatible with **Fourth Dimension** versions 2.0.5 through 2.0.9: the color features are disabled. **4D** version 2.0.10 fixes this. *Dean Wette [72317,2034]*
- **SuperClock! 3.5** works fine with **PageMaker 3.02**. The **PageMaker** manual claims that **SuperClock! 3.0** was the version to cause **PageMaker** to have the problem. *Ralph Brandi*
- **SuperLaserSpool** has been updated to version 2.01. This maintenance update is recommended only for those using the following products: **LaserWriter 6.0**, Insight Development's **MacPrint**, **BDT SheetFeeder**, **Microsoft Works**, and Odesta's **Double Helix**. Additionally, **SuperLaserSpool 2.01** is recommended for those concerned with fractional font widths. We've also been told by Acius that SuperLaserSpool 2.01 seems to have solved most of the **Fourth Dimension** 1.x problems and should be compatible with **4D 2.x**. *Fabian Ramirez SuperMac Technology/SuperMac [76004,2330]*
- **White Knight 11.02** wages war on **DiskExpress II 2.01**. I have talked with Scott Watson about this, and he says this is ALSoft's fault, and they are aware of it. People can phone to receive free updates. What happens is that on ZMODEM transfers, after the file has been received, and the progress window about to be put away, you get a System bomb (ID=10). Also, sometimes when you select a file to upload, **White Knight** will ignore it and refuse to send it. *John Griffin [75026,3507]* I have talked to Sean Neely (ALSoft Technical Support) about this: **Disk Express 2.04** fixes all known problems, including the above. Users who are experiencing problems should call ALSoft for the free upgrade. *GB*
- **Wingz 1.0** was slow printing with **LaserWriter 6.0** (it worked fine with 5.2). **Wingz 1.1** has fixed the problem. *GB*
- **XTree Mac 1.02** has a problem with **MacWrite II** in the following way: If you installed **Xtree Revive-A-File**, **MacWrite II** would crash on boot (ID 002). Xtree acknowledged this incompatibility last June and has released version **1.03** to correct it. So far, it looks like the conflict has been resolved. The new version is available free on request. *Larry Balint [73320,2632]*

## 6. Loading Order

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One of the hardest problems to track is the loading order of INITs some must be loaded in particular sequence either before or after another or all other INITs. There are two ways to rectify this: rename the INIT (starting with a space or character if you want it to come first in the list, with a 'z' if you want it at the end of the list) or use one of the commercial INIT managers (like Microseed's **INIT Picker**) that allows you to change the loading order. I use the former approach with **init cdev 2.0** because **INIT Picker** is a bit slow for me. NOTE: Microseeds are working on a new version of **INIT Picker** that is supposed to be able to resolve INIT conflicts. If — and when — it works, this file may be replaced by three words: buy **INIT Picker**! In the meantime, please post your loading order tips so they can be incorporated into the next **INITInfo**.

- **Coach Helper v.30a** and **Stepping Out II** - Computer bombs at startup. Solution: rename **Stepping Out II** to something like 'a**Stepping Out II**' so as to load first. *Rachel R. Caspi, PhD*
- **Deskpick** - should be renamed **!Deskpick** to load before most INITs.
- **Fetchit** will override **SFVol INIT** if it is loaded first (from doc file).
- NOTE the following from jbx (the author of **hierDA**): I was reading through your docs the other day and noticed that you say **hierDA** must load AFTER **MasterJuggler** to run properly. Actually, the reverse is true — for the latest versions. After version 0.9967, I completely re-wrote **hierDA** and as a result it really wants to load before all other INITs, or at least before **Suitcase**, **MasterJuggler**, or other INITs like them. However, versions 9961, 9962, and 9966, and 9967 all want to be loaded AFTER **MasterJuggler**. (side note: all 996x versions don't work that well with **MasterJuggler**, often becoming confused as to which DA is which. That they worked at all with **Font/DA Juggler** or **MasterJuggler** is actually a coincidence) Anyway, the best place to look is the online docs for **hierDA** they correctly state, in versions 996x, that **hierDA** must be loaded after **Font/DA Juggler/MasterJuggler**, and state that in versions 997x and 998x that **hierDA** must be loaded before **Font/DA Juggler/MasterJuggler**. In either case, **hierDA** must load before **Suitcase II**. Finally, note that anyone not using either 9967 or 9984 of **hierDA** really should upgrade all other versions aren't stable enough for common use, IMHO. (of course, every version I ever released worked fine on my machine, but there are problems with Microsoft products, Radius monitors, **Font/DA Juggler/MasterJuggler**, etc.). There is a note in 9984 saying not to use it after August or some such this was there to encourage users to get the next version. Unfortunately there wasn't any need for a new version (84 was stable enough) so there's no need to stop using it. I am still looking into the IIci/laptop compatibility issue. *jbx (Jorg Brown) [73177,1404]*

- **Icon Colorizer 1.2** is a great INIT that recolors your desktop icons. I was unable to get it to boot (the startup icon displayed with an 'X' through it) until I renamed it '**alcon Colorizer**' so that it loaded earlier than most other INITs. Running **Layout 1.9** to modify your desktop changes **Icon Colorizer**'s disk icons — the solution is to revert to the default settings. *GB*
- **init cdev:** 2.0 should be first installed except for **SAM** (obviously, you cannot disable at bootup those INITs that load before **init cdev**).

- **SAM** and **CPSave Deletes** - **SAM** will not let **CPSD** load. Solution: **CPSD** has to be renamed so as to load first. (Symantec advise that **CPSD** is being fixed.) *Rachel R. Caspi, PhD*
- **Tablecloth** should be renamed “z**Tablecloth**” so that it will load last (except for ~ATM)
- **Tappy Type** - This neat little INIT, which makes your Mac sound like a typewriter, seems to interact badly with **Suitcase II**. I couldn't get it to work until I had it load before **Suitcase II**. Oddly enough, I figured the INIT it WOULD interact badly with would be **QuicKeys**, but they seem quite happy together. *Joe Bates [72410,27]*
- **TurboCache (PLI)** - often bombs and won't allow access to the finder, probably due to a conflict in memory allocation. Rename it “ **Turbo Cache**” (double space before the name). *Roberto Montandon , Italy(BIX: montandon).*



## 7. CI Problems<sup>13</sup>

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*The new Mac IIci seems to have unique problems:*

- **DFaultD 2.0** cdev crashes the IIci sometimes when the Options button is clicked in the Control Panel dialog. I've already contacted the author about the problem. *Dean Wette [72317,2034]*
- **Freehand 2.02** on the IIci - Aldus Tech Support has advised me that problems I am experiencing (system crash when I use the Print Command) involves the Apple Full Page monitor. *Larry Balint [73320,2632]*
- **hierDA 0.9984** will usually not open the Control Panel to anything but 'General' on the IIci. *Larry Balint [73320,2632]* Version .9967 of **hierDA** on the IIci will select the correct Control Panel device rather than defaulting to general as in version .9984. *Dean Wette [72317,2034]*
- **INIT Picker** and **Adobe Type Manager**, if run with their default setups, will cause a cycling reboot on a Mac IIci. The solution is to set up **INIT Picker** so that it does not configure a new startup device. *Larry Jackson, ArTeXT.*
- **Pagemaker 3.02** on the IIci - Aldus has now confirmed that there is a definite problem with the Apple Full Page monitor. They are working with Apple on it, and it appears to have something to do with the new video card and video cable that was introduced at the same time as the IIci. *Larry Balint [73320,2632]*

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<sup>13</sup>

We all want one — this list allows us a bit of revenge on those lucky enough to have one: "I would have bought one, but I can't live without [your choice from the above list]".

## 8. 24-bit Problems<sup>14</sup>

*With the release of **RasterOPS 264**, an inexpensive 24-bit card, we are seeing unique problems that only appear when running 24-bit colours (16.8 million!). Sometimes, the solution is to change your monitor setting back to 8 bit color.*

- **Colorfinder** does not work in 24-bit mode (icons are not displayed). **GB**
- If you try to run **Giffer** while in 24-bit color, you get the cryptic message “The application **Giffer** has unexpectedly quit (28)”. This is particularly frustrating, as I had hoped to be able to display multiple pictures each with different color pallets (each new picture brings along its own CLUT (Color Look-up Table) and screws up the pallet of the preceding picture if displayed in 8-bit mode). **GB**
- We have now discovered that some programs will not run, period, with a 24-bit card (**RasterOPS 264** or **RasterOPS 232**) installed (regardless of color level, INITs, removal of 32-bit QuickDraw, or even booting System off the program floppy): **SuperPaint 2.0** is an example. I have been told that the same is true for **Image Studio 1.0** (We presume this problem is solved with **ImageStudio 1.5**) and **Streamline1.0** **GB**
- If you try to change resolution (from 24-bit) by accessing the **Monitor** cdev through the Control Panel with **OneSpace INIT** active, your Control Panel will 'hang' (only the **Monitors** Icon shows & you have to reboot). **GB**
- **QuarkXpress 2.12** cannot display most EPS files when running 24 bit color. **GB**

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<sup>14</sup>

See the footnote on the previous page.

## 9. Other Conflicts

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- **32-bit QuickDraw -SimCity** will not run under it. (The solution is to remove it from your System Folder and reboot). I have been told the same is true for **Moebius**. GB
- **Focal Point II** - will not run under **HyperCard 1.2.2** (amongst other things, it cannot find the script to sort your address stack). The solution is to use **HyperCard 1.2.1**. TenPoint0 are aware of the problem, but are unlikely to fix it. (MediaGenic/Activision have dissolved TenPoint0.) GB
- **Pipe Dream** - also has some problems with **32-bit QuickDraw**: on some Systems, it will load, but not on others. In any case, removing 32-bit QuickDraw from your System Folder and rebooting will fix the masking problem ('sparkles') when running in color. GB
- The following comments are from Fabian Ramirez of SuperMac Technology:  
With respects to your note about 32-bit QuickDraw compatibility, most are confused about this issue. Basically, there are two issues:  
#1 - If you have an 8-bit video card and have 32-bit QuickDraw installed, what (if any) applications have you found that are incompatible with 32-bit QuickDraw loaded?  
#2 - If you have an 16-/24-/32-bit video card and have 32-bit QuickDraw installed, what (if any) applications have you found that are incompatible with 32-bit QuickDraw loaded when running in 8-, 16-, and/or 24-/32-bit modes?  
Also note that the Mac IIfx has 32-bit QuickDraw in ROM. So one just cannot remove 32-bit QuickDraw, like on a Mac II/IIfx/IIfx or SE/30. Most of the problems arise from applications that are not compatible with 32-bit QuickDraw or running in 24-bit mode or are not '32-bit Clean'. For example, **Adobe Illustrator 88 1.9.3** was specifically released to allow **Adobe Illustrator 88** to run with 32-bit QuickDraw loaded in memory, but it is NOT designed to run in 24-bit mode...only in 8-bit. The same is also true of **MacroMind Director 1.01**. *Fabian Ramirez SuperMac Technology/SuperMac [76004,2330]*

## 10. Summary of Conflicts

This table is meant as a guide only (some of these are not as severe as others), so please check Chapter 4 for the description of the problem. Major conflicts are in bold.

101-ADB Keyboard	Excel 2.2, SoftPC
<b>24-bit color</b>	<b>Giffer 1.06</b> , QuarkXpress 2.12, <b>Streamline</b> , <b>SuperPaint 2.0</b>
32-bit QuickDraw	Moebius, Pipe Dream, SimCity
ATM 1.01	Navigator
<b>Alt WDEF v1.3</b>	Microphone II, <b>Reports</b>
Animated Moose	SuperClock 3.8
<b>AutoMac III</b>	<b>Cmdr. Dialog II</b>
<b>Boomerang 2.0</b>	DeskTop Manager, <b>FetchIt</b> , Metcom Modula-2, <b>Rebound</b> , Word Perfect 1.0.2
<b>Capture</b>	<b>Apple CD ROM INIT</b>
Apple CD ROM INITs	Capture, many other INITs (see text)
CE Toolbox 1.2	DeskTop Manager
<b>Chessmaster 2000</b>	<b>Pyro!</b>
CI (as in Mac IIci)	<b>Freehand 2.02</b> or <b>Pagemaker 3.02</b> with the <b>Apple Full Page Monitor</b>
Colorfinder	DeskTop Manager
<b>Cmdr. Dialog II</b>	<b>AutoMac III</b>
Comment 2.0	Mac IIci
CPS Delete Tracking	Freshstart 1.3
<b>Dark Castle</b>	<b>Pop-Keys</b>
DeskTop Manager	Colorfinder, Icon Colorizer 1.2
Dimmer	System 6.0.4
<b>DiskExpress II 2.04</b>	<b>TurboCache</b> , <b>TurboCharger</b>
<b>Double Helix</b>	<b>Icon-It! 2.0</b>
<b>Fetchit</b>	<b>Boomerang</b> , <b>Rebound</b>
<b>FileMaker II</b>	<b>SuperLaserSpool</b>
Findswell 2.0	HandOff 1.1.2
Flashwrite	Word 4.0
Focal Point II	HyperCard 1.2.2 (FPII requires HC 1.2.1)
Fourth Dimension	SuperSpool
<b>Freehand 2.02</b>	<b>Mac IIci with full page display</b>
Freshstart 1.5	Pagemaker 3.02, Thunder II
<b>Giffer 1.06</b>	<b>24-bit color</b> , WindChooser
HandOff 1.1.2	Desktop Manager, Findswell 2.0
<b>hierDA 0.9984</b>	<b>Vision</b>
<b>HigherMenus</b>	<b>MasterJuggler</b>
<b>HyperCard 1.2.2</b>	<b>Focal Point II</b> , SuperClock 3.8
Icon Colorizer 1.2	DeskTop Manager
<b>Icon-It! 2.0</b>	<b>Double Helix</b>
Jasmine cdev 1.48	SoundMaster 1.2

<b>LaunchKey</b>	<b>Pop-Keys</b>
<b>Lookup 2.0</b>	<b>Timbaktu</b>
<b>MacInTalk</b>	<b>MacroMaker</b>
<b>MacLightning 2.0</b>	<b>Pop-Keys</b>
<b>!MacPassword</b>	Shield
<b>MacPuke</b>	<b>Microsoft Mail</b>
<b>MacroMaker</b>	<b>MacInTalk</b> , MacTablet, SuperCard
MacTablet	MacroMaker
MacTell	SuperSpool
<b>MasterJuggler</b>	HigherMenus, MultiClip, <b>myDiskLabeler 2.9.1</b> , <b>Suitcase II</b>
Menuclock	most MIDI software
Microphone II	Alt WDEF v1.3
<b>Microsoft Mail</b>	<b>MacPuke</b>
MIDI software	Menuclock
<b>Moebius</b>	<b>32-bit QuickDraw</b>
Moiré	MasterJuggler
MPW 3.0	Freshstart 1.3
MultiClip	too many INITs MasterJuggler, Notepad 2, PageMaker, Shield
<b>myDiskLabeler 2.9.1</b>	<b>MasterJuggler 1.5</b> , <b>Suitcase II</b>
Navigator	Adobe Type Manager 1.01
No Icon	Oscar
Notepad 2	DiskTop, MultiClip
Oscar	No Icon
<b>PageMaker</b>	Freshstart 1.5, <b>Mac Ici with full page display</b> , MultiClip, SuperClock 3.8
Pipe Dream	32-bit QuickDraw
<b>Pop Keys</b>	<b>un-named Fkeys in System with MultiFinder</b> , <b>Dark Castle</b> , <b>MacLightning 2.0</b> , <b>LaunchKey</b>
<b>Pyro!</b>	<b>Chessmaster 2000</b> , Eureka, MacTools, QuickSpool
QuarkXpress 2.12	24-bit color
QuicKeys	Coach
QuickSpool 1.0	Pyro! 3.3.1
<b>Rebound</b>	<b>Boomerang 2.0</b>
<b>Reports</b>	<b>Alt WDEF</b>
<b>SAM 1.3</b>	<b>White Knight 11.04</b>
<b>SFScroll INIT</b>	<b>Zephyr</b>
Shield	<b>!MacPassword</b> , MultiClip
<b>SimCity</b>	<b>32-bit QuickDraw</b>
SoundMaster 1.3	Jasmine cdev 1.48
<b>Streamline</b>	<b>24-bit color card</b>
<b>Suitcase II</b>	<b>MasterJuggler</b> , <b>myDiskLabeler 2.9.1</b>
SUM II	TurboCache
SuperCard	MacroMaker
<b>SuperClock 3.8</b>	HyperCard, <b>Talking Moose DA</b>

<b>SuperLaserSpool</b>	<b>FileMaker II</b>
SuperSpool	4th Dimension, MacTell
Tappy Type	Suitcase II
Thunder II	Freshstart 1.5, Moiré 3.0
<b>Timbuku</b>	<b>Lookup INIT 2.0</b>
TOPS	4th Dimension
TurboCache	DiskExpress II 2.04, SUM II
TurboCharger	DiskExpress II 2.04
<b>White Knight 11.04</b>	<b>SAM 1.3</b>
WindChooser	Giffer 1.01
<b>WindowList 1.21</b>	<b>WDEF I NIT, Zterm</b>
Word 4.0	Flashwrite 1.1
Word Perfect 1.0.2	Boomerang 2.0
<b>Zephyr</b>	<b>SFScroll INIT</b>
Zterm	WindowList 1.21

## 11.No Known Problems

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The following INITs cause no known problems (as yet) and some are indispensable:

- **Aesthete** - improves the look of your Mac Icon — freeware
- **Big Thes** - astounding commercial DA thesaurus
- **Clock Adjust** - permits adjusting the Mac clock if it runs too fast
- **Color Cursor** - gives you a multicolored cursor
- **!Deskpict** - use your startup picture as a desktop
- **DialogKeys** (part of **DiskTop**) - use the keyboard in dialog boxes
- **DLS** - adjusts your clock to account for Daylight Savings Time
- **DOS Mounter** - allows FDHD drives to read DOS disks directly
- **KeyMenu** - allows you to use the keyboard to access menus (like **FullWrite Professional**)
- **Finder Sounds 1.0.2** - adds sounds to Finder operations (requires **System 6.0.4**)
- **FP INIT** - used by **Focal Point II**
- **GOfer 2.0** - locates files based on their contents
- **Icon Wrap 1.2** - wraps bootup icons to a second and third line
- **Kolor 1.0** -Commercial color utility for Mac II's
- **Logout** - logs the time you spend on your Mac (scary stuff kids!)
- **MacEnvy 2.0** - learn all about your hardware and System software
- **Map** - this (and the color addition) work fine (although I wish the guy who redid the map in color had remembered that there is water between Africa and Europe)
- **Oliver's Buttons 1.0** - gives 3D buttons and realistic checkboxes
- **On Cue 1.3** - file launching from the upper right-hand corner of the screen
- **Pointer** - a cdev that allows finer control of your mouse speed
- **QuickTimer** - allows you to set **QuicKeys** macros to start at a particular time
- **Scanner** - required to run the Apple scanner
- **Scroll Limit** - Blue Cloud Software's utility to slow down window scrolling for 020's and 030's.
- **Scrapsaver** - like it says
- **SCSI Probe 2.01** - indicates active SCSI devices and allows mounting them. A boon when your **Syquest** drive won't mount
- **Showpict** - allows the loading of a color startup screen to display with the correct CLUT colors (as opposed to the standard palette).
- **Temperment 2** - automatically deletes the temporary files created by **Word**.
- **Vaccine** - freeware anti-virus INIT
- **Windowshade 1.1** - reduces windows to the top bar with a click

## 12. INIT Utilities

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Lost? Need help? Don't worry — there is software that can help you tame your INIT problems. There are three categories of software that you may want to try:

### INIT Managers

These programs allow you to toggle your INITs on and off without having to remove them from your System Folder. If you are using more than the INITs Apple provides, one of these is essential:

**Aask**

**Control-1**

**init cdev 2.0**

**INIT Picker** (also allows you to change the loading order of your INITs)

**INIX**

- **INIThound** is a new program from Cambridge Information Ware that not only turns INITs and cdevs on and off but also identifies what they do. The description from the supplier states: “**INIThound™** is an INIT utility with unique technical capabilities for tracking, managing, and debugging INIT software. It monitors the INIT 31 startup process and provides information vital to System administrators, network administrators, customer service representatives, and software developers...”

### System Utilities

A number of programs incorporate or include utilities to help you keep control of your System:

- **DOES THIS HAPPEN TO YOU?** I sometimes get a Memory error –108 which indicates not enough memory in the heap zone, an area where Fonts, Desk Accessories, Control Panel devices and INITs load. Because of the increasing number of INIT files in use on the Macintosh, shortages in the System Heap are becoming more frequent. **HeapFixer** fixes this. In their documentation CE Software states: “Unreliable operation of your Macintosh or unexplained crashes are common symptoms of System Heap size problems. At the Finder, select ‘About the Finder’ from the Apple menu. A memory usage bar chart will be displayed. Look at the bar labeled ‘System’. A number will also be displayed to the left of the bar — write down this number, you will need it when using **HeapFixer**. The darker part of the bar indicates memory used the lighter part of the bar indicates free memory. If there is less than 25% free space indicated for the ‘System’, you may occasionally have problems.” **GO**
  - For me, **HeapFixer** offers a temporary solution at best. My Mac tends to move back to an inadequate heap size after a few days. I believe this is because I constantly change my INIT configuration. **GB**
  - One of the best indicators of RAM usage (not System Heap) I have on hand is through **TurboCache** from PLI, which shows in the Control Panel a graph of how



memory is allotted. *Jim Moore [74736,2567]*

- If you find your Mac Desktop slowing down (it starts taking longer and longer to give you back control after moving or copying files), you can try **DeskTop Manager** (but see the notes in Chapter 4 first), manually rebuild your Desktop<sup>15</sup>, use **DiskExpress 1.5** to compact your Desktop, or **Fix Desktop**, a freeware utility by Anton Rang that removes unused comments and bundles and fixes the application list.
- Another way of fixing the problem: if you have **DiskTop** it comes with a utility called **Widgets** which will allow you to change the heapsize, (Bob Anderson) *Joe Bates [72410,27]*
  - To answer Joe Bates' query about **HeapFixer**, CE Software advised advantage was it showed amount of Free Memory which **Widgets** does not. They advised me by phone that the documentation to both **Widgets** and **HeapFixer** was misleading. That not much at all could be told from About Finder as far as the System Heap memory usage. They suggested that you use **HeapFixer** to leave about 75K free in your normal environment, which takes some trial and error. **Widgets** will allow you to increase the System Heap but gives no indication about how much memory is free. *Jim Moore [74736,2567]*
- **The Open Files Problem** The Mac can only cope with 40 open files at once (maybe less). But with suitcases, System files, applications (under **MultiFinder**) and a host of invisible files left open by some INITs, you can easily pass the limit. The problem is hard to diagnose if you do not know what to look for. Sometimes, you try to open another file and the machine responds with a notice that it cannot open any more files (although you seem to have enough memory). Or you may try to print and you get a error message – 42. I had this problem and couldn't for the life of me figure out why **Print Monitor** kept refusing to print. There is a solution. **Suitcase II** lets you (under the settings button) modify the System to open more files. **MasterJuggler** comes with a utility called **Set File Count** which allows you to increase the number of files to 200. Like magic, your problems vanish. The just-released **DiskExpress II** also includes **Set File Count**.
- **CE Toolbox.1.2** - (part of **DiskTop 4.0**) claims to help reduce INIT conflicts (although the doc gives no indication as to how). *GB*

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<sup>15</sup> Hold down the Option-⌘ keys down while booting. The downside is that you'll lose any comments (accessed via ⌘-I) on your files, the advantage is that things should speed up.

## **System Analysis Tools**

There are a number of programs that can prepare a report on your System, including the installed INITs:

**DiskExpress 1.5**

**INIThound** (see above)

**MacEnvy**

**Mug Shot**

**Tattle Tale**

**What?**

- I have gone through the procedure of testing every INIT in my System Folder with a utility called "**CheckTicks**". This application measures how long it takes your System to process 1000 calls to GetNextEvent. With an INIT laden System, it takes considerably more time than a bare-bones one. With my SE/30 it takes about 231 ticks. With a laden System it takes over 1,000. I found that the very WORST System de-enhancer was **Pyro!** which slowed the System down to a crawl — more then doubling the time. *John Griffin [75026,3507]*
- Changing the System Heap and increasing the file count as mentioned will certainly help solve many problems. There are many files open of which the user is unaware. I suggest you get (download) '**What?**' as I did at suggestion of CE Software to show much info about your environment, especially all files that are open. CE Software suggested **What?** to me after several calls trying to resolve various conflicts. *Jim Moore [74736,2567]*

### 13. Tips, Hints and Assorted Thoughts

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Wouldn't it be great if someone could write an application that could figure out what is conflicting with what in your System? Of such stuff dreams are made<sup>16</sup>.

- **The application 'ABC' has unexpectedly quit.** Happen to you? Sometimes, but only sometimes, the fix is easy. Get into the finder, highlight the application, and Get Info. Increase the application memory size (bottom right hand corner of window). The unfortunate down side to this is that often this means that the application that you are running has just conflicted with one of your INITs (good luck finding it!).
- One of the most frustrating System crashes is when you have been working for a while, and (after an unrelated event) you get a blank, flickering dialog box (obviously the 'System Error' dialog). Steve Brecher (the author of **Suitcase II**) explained to me that this means that your System has become so corrupted that it is incapable of even displaying the dialog box. In my opinion, these are the most difficult System crashes to recreate when testing for INIT/cdev conflicts. If anyone out there has any suggestions, please EMail them to us. *GB*
- *Don Wershba [71641,333]* reports that "Barry Semo, who wrote **INIT Picker** for Microseeds said (when I spoke to him at MacWorld Expo Boston) that the next release of said product will scan and analyze INIT conflicts for you on startup. A prayer answered? I'll stay on top of the situation for you and let you know if it becomes a reality." Robin Devoe of Microseeds Publishing informs me that they have a new version of **INIT Picker** in beta testing right now and that he is reworking the manual. Stay tuned.
- **The October 1989 issue of Macworld** contains an article on page 160 entitled "Start With Utilities" by Robert C. Eckhardt which describes "How to survive the flood of self-loading RAM-resident utilities". Worth reading by conflict sleuths. The editors of MacWorld list the following as INIT Hall of Famers: **On Cue**, **Suitcase II**, **MasterJuggler**, **Capture**, **QuicKeys**, **EZ-Menu**, **SFVOL INIT**, **FileMagic**, **SuperClock**, **Vaccine**, **SFSCROLLINIT**, and **Pyro!**. *Chacun à son gout.* (see Chapter 11 for our top ten list).
- **Midi Software:** any INITs or apps which utilize the Mac's timer should be scrutinized.
- **Still More Help** — **MasterJuggler 1.5** includes a utility to search for, list and even print out your font conflicts (NFNT numbering). Furthermore, there is a utility included which allows you to renumber the problem fonts<sup>17</sup>. (You can also trace DA numbering conflicts and renumber the DAs<sup>18</sup>).
- **Gary:** the best program yet for cleaning up downloaded text files (which come with those downloaded INITs, or indeed this file if you have downloaded the text

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<sup>16</sup> Are you listening Microseeds?...

<sup>17</sup> Both **Suitcase II** and **MasterJuggler** can resolve font numbering problems.











<sup>18</sup> ALSoft acknowledge that there is little or no benefit for users to resolve DA numbering conflicts, although they have used the feature to track down problems in other software.

version) is **Vantage** (the commercial version of **MacSink**) a commercial DA which strips the line feeds and makes paragraphs instantly.

- **INIT Stack**: We have been asked to do a **HyperCard** stack of this information and had considered doing a simple stack, but the following EMail changed our minds: "Gary, I just downloaded your conflict list and read it with great interest. Over the weekend I completed a **HyperCard** stack that maintains such conflicts. What makes it useful is that it can actually find conflicts in your System. Such as which two INIT's clash, which should load before another, which shouldn't be used at all, etc. It also has the ability to find conflicts. What makes this all possible is my new **Mug Shot** program (maybe you've heard about it in MacUser?) when combined with the stack. Case in point, **QuicKeys** and the new **Mug Shot Deluxe** don't get along well. On some Systems it works, and on some it causes problems. With this new stack, I found that the combination of **QuicKeys**, **ApFont**, **SuperClock**, and 'Time' are conflicting with one another. Since it appears that you have a good thing going, I was wondering if you want to take a look at it? I already have some beta testers lined up who are product support representatives. Now the bad news, my Mass Micro drive died last night and won't mount cartridges. I do have a backup, but it isn't as polished as the latest version. So, when I get everything up and running, I can send a copy if you want. *James K. Miles / Mi Concepts*"

### 13. Our Top Ten INITs

*Of the hundreds of INITs available for the Mac, we have decided that these are the ten we would choose if we could only (Heaven forbid) be allowed ten. The list was compiled without regard as to whether the INITs were commercial, shareware or freeware. We recommend them highly.*

Rank	Program	Version	Notes
1	 MasterJuggler	1.5 1.2.6	If you want to manage your System (fonts, DAs, FKeys) you need either MasterJuggler or Suitcase II <sup>19</sup> .
2	 init cdev 2.0	2.0	If you're going to use INITs, you need an INIT manager. init cdev works well, and it's free!
3	 Boomerang	2.0	We should have known that this was too good to last as freeware. Even at \$30.00, an indispensable tool for finding your way around.
4	 QuickKeys™	1.2	Not perfect, but still the best macro program out for the Mac.
5	 ~ATM™	1.01	If you want WYSIWYG fonts, Adobe Type Manager is a must-have.
6	 After Dark	1.0	Berkeley Systems managed to create a new screen blanker at a reasonable price.
7	 SuperClock!	3.8	Superclock is on so many Macs, it should be System software.
8	 jbx DA menuz	0.9984	Pop-up menus, and direct access to your cdevs — hierDA is a great piece of software!
9	 SAM™ Inter...	1.3	When used in conjunction with Disinfectant all the virus protection you need.
10	 Exposure™	1.03	If you can afford it (\$79.95 is steep for a screen snapshot utility), it's worth the price.

<sup>19</sup>

MasterJuggler also manages sounds and has file launching, Suitcase II is easier to use (and was the first out).

### Honorable Mentions

There are too many INITs out there to limit the list to ten. Here are some that just missed our list:

- **DiskExpress II** - I've just received my update disk, and this one looks destined for the top 10: background optimization for your hard drive! *GB*
- **DiskTop 4.0**  
An indispensable DA/INIT/cdev combination of file utilities. The only reason it's not in the top ten is that it is primarily a DA.
- **On Cue 1.3**  
The first commercial file launcher (file launching is also available within MasterJuggler 1.5 and DiskTop 4.0, otherwise this would have to be in the top ten).
- **Vaccine**  
A freeware anti-virus product from CE Software.

## 15. INITInfo Sources

We have received numerous requests for an appendix which lists the manufacturers or authors of the products mentioned in **INITInfo**. We are sending each a printout of the latest file, in hopes that we can generate more response for the next version of **INITInfo**. If you can fill or update the blanks, please EMail us.

The codes used are:

B = Bundled (included with a commercial program)

C = Commercial

F = Freeware (software available for free use, the author retains the rights)

PD = Public Domain (software available freely for use or modification)

S = Shareware (software available for trial if you use it, you are obligated to make payment to the author)

U = Unknown

Program	Vers.	Type	Price <sup>20</sup>	Author/Manufacturer
Aask	1.0	C	\$49.95	CE Software
Adobe Type Manager	1.01	C	\$99.00	Adobe
Aesthete	1.0	F	free	David Dunham
After Dark	1.0	C	\$39.95	Berkeley Systems
Alt WDEF	1.52	F	free	Alexander S. Colwell
Answer	1.0B1	F	free	Steve Bryant
Apfont	3.0.1	S	\$5.00	Jim Hamilton
AppleShare		C		Apple
AppleTalk Imagewriter	2.7	B	included	Apple
Beyond Dark Castle	1.0	C	\$49.00	Aldus <sup>21</sup>
Big Pat/Pik-a-Pat	1.0	F	free	Charles Dunn
Big Thesaurus	1.0c	C	\$99.95	Deneba Software
Black Box <sup>22</sup>	1.5	S	\$15.00	Andrew Welch
Boomerang	2.0	S	\$30.00	Hiro Yamamoto/Zeta Soft
CacheControl	1.2.1	S	\$10.00	Jim Hamilton
Capture	2.0	C	\$49.00	Mainstay
CD ROM INIT		B	included	Apple
CE Toolbox <sup>23</sup>	1.2	B	included	CE Software
Cheapcolor				
Chessmaster 2000	1.0	C	\$39.95	Electronic Arts
CIcon Edit	1.0	F	free	Ben Haller
Clock Adjust	1.0	F	free	James Nitchals
Closeview	1.1	B	included	Apple

<sup>20</sup> The prices listed (when known) are the US list price. Most dealers sell for less. When we couldn't find the list price, we used a catalogue price.

<sup>21</sup> Aldus just bought Silicon Beach Software.

<sup>22</sup> We have been told that an updated version of **Black Box** will be marketed by Preferred Publishers as **Menagerie**.

<sup>23</sup> Part of **DiskTop 4.0**.



Color	3.3.2	B	included	Apple
Color Cursor		PD	free	Mathias Urlichs
ColorFinder	1.0	F	free	Chris Derossi
Control-1		B	free	CE Software
Copy II Mac	7.2	C	\$24.00	Central Point Software
Cmdr. Dialog ][	1.01	S	\$10.00	Andrew Welch
Comment	2.0	C	\$99.95	Deneba Software
CPS Delete Tracking <sup>24</sup>	1.0	B	included	Central Point Software
Cricket Graph	1.3.2	C	\$195.00	Computer Associates
Dark Castle	1.0	C	\$22.00	Aldus <sup>25</sup>
DFaultD	2.0			
Deskpict	1.1	F	free	Clay Maeckel
Desktop Manager <sup>26</sup>	1.0	B	included	Apple
Dimmer <sup>27</sup>	1.0	C	\$39.00	Microseeds
Disinfectant	1.5	F	free	John Norstad
DiskExpress	1.50	C	\$69.00	ALSoft
DiskExpress II	2.03	C	\$89.00	ALSoft
DiskTop	4.0	C	\$49.95	CE Software
DLS <sup>28</sup>	1.0	F	free	D. Grant Leeper
Docucomp	1.0	C	\$87.00	Advanced Software
DOS Mounter	1.2	C	\$89.95	Dayna Communications
Double Helix	3.0	C	\$337.00	Odesta
Easy Access	1.01	B	included	Apple
Eliza	1.0	F	free	Trans-Tex Software
Eureka	1.01	C	\$24.95	PCPC <sup>29</sup>
Exposure	1.03	C	\$99.95	Preferred Publishers
EZ-Menu <sup>30</sup>	4.4	C	\$49.95	CE Software
Falcon	2.2	C	\$39.95	Spectrum Holobyte
Fetchit	1.2	S	\$5.00	Scott Silverman
Front & Center	1.04	F	free	Pete Helme
Keymenu	1.00	F	free	Jason Scheck
Filemagic	1.0	C	\$99.00	Magnus Corp.
FileMaker II	1.0	C	\$225.00	Claris Software
Finale	2.0	C	\$749.00	Coda Music Software
Finder Sounds	1.0.2	F	free	Gregory J. Smith
Findswell	2.0	C	\$59.95	Working Software
Fish	2.0	F	free	Bogus Software

24

Part of **PC Tools Deluxe**.

25

Aldus just bought Silicon Beach Software.

26

**DeskTop Manager** is included with **AppleShare**.

27

Part of **Screen Gems**.

28

Adjusts your system clock for **Daylight Savings**.

29

Personal Computers Peripherals Corp.

30

Part of **Mockpackage Plus Utilities**.

Fix Desktop	2.0	F	free	Anton Rang
FKey Manager	3.0	F	free	Carlos A. Weber
Flashwrite	1.1	S	\$10.00	Andrew Welch
Focal Point II	1.0	C	\$199.95	TenPoint0
Fourth Dimension	2.0	C	\$795.00	Acius
Freehand	2.02	C	\$595.00	Aldus
Freshstart	1.5	S	\$25.00	Bob Hablutzel
Front & Center	1.04	S	\$10.00	Pete Helme
Gauntlet	1.0	C	\$29.00	Mindscape
General	3.3.2	B	included	Apple
Giffer	1.06	B <sup>31</sup>	\$20.00	Steve Blackstock
GOfer	2.0	C	\$46.00	Microlytics
Grand Prix Circuit	1.0	C	\$39.00	Accolade
Handoff	1.1.2	C	\$35.00	Software Innovations
HeapFixer	1.01	B	included	CE Software
hierDA/DA menuz	0.9984	F	free	jbx (Jörg Brown)
HigherMenus	1.0	S	\$5.00	Dean Yu/Starship Enterp.
HyperCard	1.2.5	B	\$49.95	Apple
Icon Colorizer	1.2	F	free	Robert Manafo
Icon-It!	2.0	C	\$79.95	Tactic
Icon Wrap	1.2	F	free	Ken McLeod
Illustrator 88	1.9.3	C	\$495.00	Adobe
ImageWriter	2.7	B	included	Apple
Image Studio	1.50	C	\$495.00	Letraset
init cdev	2.0	F <sup>32</sup>	free	John Rotenstein
INIThound	1.0	C	\$129.00	Cambridge Information
INIT Picker	1.0	C	\$39.95	Microseeds
INIX	1.1	C	\$49.95	Natural Intelligence
Jasmine cdev	1.48	B	included	Jasmine (incl. with drive)
Keyboard	3.3.1	B	included	Apple
Kolor	1.0	F	free	Russ Wetmore
LaserSpeed		C		Symantec
LaserWriter	6.0 <sup>33</sup>	B	included	Apple
LaserWriter SC	1.1	B	included	Apple
LaunchKey				
Layout	1.9	F	free	Michael O'Connor
Logout	1.0	H <sup>34</sup>	free	John Rotenstein
Lookup	2.0	C	\$59.95	Working Software

- <sup>31</sup> This 'B' is for Beerware (if you use **Giffer**, send him \$20.00 or a case of beer).
- <sup>32</sup> John makes a reasonable request: if you use **init cdev 2.0**, he asks that you send him a postcard.
- <sup>33</sup> **LaserWriter 5.2** is shipped with **System 6.0.4**, but Apple has made 6.0 available.
- <sup>34</sup> This (and the rest of John's software) is distributed as Happiware (If you like it, remember to smile!). The only thing he asks for is a postcard if you use his software.

LQ Imagewriter	2.0	B	included	Apple
LQ AppleTalk ImageWriter	2.0	B	included	Apple
MacDraw II	1.1	C	\$395.00	Claris
MacEnvy	2.0	F	free	Blue Cloud Software
MacInTalk	1.31	F	free	Apple
MacLightning	2.0	C	\$99.95	Target Software
MacNET	1.5	C	\$99.95	Connect Inc.
MacPaint	2.0	C	\$125.00	Claris
MacPassword	3.6.1	S	\$35.00	Art Schumer
MacPuke		F	free	
MacTerminal	2.0	C	\$125.00	Apple
MacroMaker	1.01	B	included	Apple
MacTell				
MacTools <sup>35</sup>	7.2	B	included	Central Point Software
Map	1.2	B	included	Apple
MasterJuggler	1.50	C	\$89.95	ALSoft
Menuclock				
Metcom Modula-2		C		Metcom
Microphone II	3.0	C	\$295.00	Software Ventures
Microsoft Mail	2.0	C		Microsoft
MockPackage Plus	4.4	C	\$49.95	CE Software
Moebius	1.0	C	\$23.00	Origin Systems
Moiré	3.0	S		John Lim
Monitors	4.1	B	included	Apple
MORE II	2.01	C	\$395.00	Symantec
Mouse	3.3.1	B	included	Apple
MPW <sup>36</sup>	3.1	C	\$100.00	Apple
Mug Shot	1.0	F	free	Mi Concepts
MultiClip	1.01	C	\$99.00	Olduvai
MultiFinder	6.1b9	B	included	Apple
Navigator	2.1	C	\$49.95	CompuServe
NeXT	1.0	F	free	jbx
No Icon		F	free	
NotePad	2.0			
Oliver's Buttons	1.0	F	free	Oliver Steele
Okyto	1.0	B	\$39.95	Freesoft
OneSpace INIT	1.0	F	free	Maurice Volaski
On Cue	1.3	C	\$59.95	Icom Simulations
Open It!	1.0	C	\$89.95	10 Point0
Oscar		S		
PageMaker	3.02	C	\$495.00	Aldus

<sup>35</sup> Part of both **Copy II Mac** and **PC Tools Deluxe for the Mac**.

<sup>36</sup> **MPW** stands for **Macintosh Programmers' Workshop**.

PC Tools Deluxe (Mac)	1.0	C	\$46.00	Central Point Software
Persuasion	2.0	C	\$495.00	Aldus
Pipe Dream	1.0	C	\$28.00	Lucasfilm Ltd.
Pool of Radiance	1.0	C	\$35.00	SSI
Pop Keys	1.0	F	free	Carlos A. Weber
Portable	1.0	B	included	Apple
PrintMonitor	1.2	B	included	Apple
Pyro!	3.3.1	C	\$24.95	Fifth Generation Systems
QuarkXpress	2.12	C	\$795.00	Quark
QuicKeys	1.2	C	\$99.95	CE Software
QuickSpool	1.0	C		
Rebound	0.95	F	free	Fred Reed, IMI Software
Red Ryder	10.3	C	\$79.95	Freesoft
Reports	1.0	C	\$119.95	Activision
resEdit	1.3d1	F	free	Apple
Road Racer	1.0	C	\$38.00	PCAI
SAM	1.3	C	\$63.00	Symantec
Scrapsaver	2.0	F	free	P. Mercer
Screen Gems	1.0	C	\$39.00	Microseeds
Scroll Limit	1.0	F	free	Blue Cloud Software
SCSI Probe	2.01	F	free	Robert Polic
SFScroll INIT	3.00	F	free	Andy Hertzfeld
SFVOL INIT	1.1	F	free	Raymond Lau
Showpict	1.0	F	free	Bill Bond
Shrinker				
SimCity	1.1c	C	\$49.95	Maxis Software
Smalltalk/V	1.1	C	\$199.95	Digitalk Inc.
Sound	3.3.1	B	free	Apple
SoundMaster	1.3	S	\$10.00	Bruce Tomlin
Spectre GCR	2.5	C	\$299.00	Gadgets by Small
Spelling Coach Pro	3.1	C	\$195.00	Deneba Software
Startup Device	3.3.1	B	included	Apple
Stepping Out II	1.0	C	\$95.00	Berkeley Systems
StickyBusiness	1.1	C	\$179.00	Williams & Macius
Streamline	1.0	C	\$295.00	Adobe
Studio/8	1.0	C	\$495.00	Electronic Arts
StuffIt	1.5.1	S	\$20.00	Raymond Lau, Alladin
Suitcase II	1.2.5	C	\$79.00	Fifth Generation Systems
SUM	1.11	C	\$79.00	Symantec
SUM II	2.0	C	\$149.00	Symantec
SuperCard	1.0	C	\$199.00	Aldus
SuperClock	3.8	F <sup>37</sup>	free	Steve Christensen

SuperPaint	2.0	C	\$199.00	Aldus
SuperSpool	5.0	C	\$99.95	SuperMac Technology
SuperLaserSpool	2.01	C	\$149.95	SuperMac Technology
Tablecloth	1.0	C	\$49.95	User-Tek
Talking Moose	1.21	S	\$15.00	Steve Halls
Tappy Type	1.21	F	free	Colin Klipsch
Tattle Tale	1.0	S	\$5.00	Bob Hablutzal
Temperment	2.0	H	free	John Rotenstein
Tempo II	1.02	C	\$149.95	Affinity MicroSystems
Thunder II	1.02	C	\$99.95	Electronic Arts
Timbuktu	3.0	C	\$149.00	Farallon Computing
TOPS	2.1	C	\$249.00	Sun MicroSystems
TurboCache <sup>38</sup>	1.0	B	included	PLI
TurboCharger				
Vaccine	1.01	F	free	CE Software
Vantage	1.5	C	\$99.95	Preferred Publishers
VersaTerm	4.0	C	\$149.00	Synergy Software
VirexGuard <sup>39</sup>	2.12	C	\$99.95	HJC Software
Vision		C	\$495.00	OPCode Systems
what?	1.0d17	F	free	John Martyniak
White Knight	11.04	C	\$89.95	Freesoft
Widgets	3.0.4	C	included	CE Software
WindChooser	1.12	F <sup>40</sup>	free	Pete Gontier
WindowList	1.3	S	\$5.00	Dean Lu
Windowshade	1.1	F <sup>41</sup>	free	Robert Johnson
Wingz	1.1	C	\$395.00	Informix
Word	4.0	C	\$395.00	Microsoft
Word Perfect	1.03	C	\$395.00	Word Perfect
World Class Leader Board	1.0	C	\$39.95	Access Software, Inc.
Xtree Mac	1.03	C	\$99.00	Xtree Company
Zephyr	1.0	C	\$59.95	Churchill Development
Zippy	2.0	S	\$5.00	Chuck Shotton
Zterm	0.85	S	\$30.00	Dave Alverson

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Children's Hospital.

<sup>38</sup> Included with PLI's Syquest drives.

<sup>39</sup> Part of **Virex 1.1**.

<sup>40</sup> **WindChooser** is FreeLunchWare (free but not to be sold).

<sup>41</sup> Although the documentation calls **Windowshade** "public domain", it is shown as © 1989 Interactive Technologies, Inc. By our definition, this is "freeware" (the author retains the rights to the program).



## 16. Addresses:

If you know of any addresses we have missed, please EMail them to us. For those addresses that we could not find, we used the **Encyclopedia Macintosh**. This book (written by Craig Danuloff and Deke McClelland, published by Sybex) is easily the best Macintosh book since the **Macintosh Bible**. No Mac owner should be without either of these two.

**Accolade,**  
550 S. Winchester  
Suite  
San Jose, CA  
(408) 296-8400

**Acius, Inc.**  
10351 Bubba Road,  
Cupertino, CA 95014  
(408) 252-4444

**Adobe Systems Inc.,**  
1585 Charleston Road,  
Mountain View, CA 94039  
(415) 961-4400

**Advanced Software**  
1095 East Duane, Suite 100  
Sunnyvale, CA 94086  
(408) 733-0745

**Affinity MicroSystems, Inc.,**  
1050 Walnut St., Suite 425,  
Boulder, CO 80302  
(303) 442-4840

**Aldus Systems, Inc.,**  
411 First Avenue South,  
Suite 200  
Seattle, WA 98104  
(206) 622-5500

**Aladdin Systems, Inc.**  
217 East 86th Street,  
Suite 153  
New York, NY 10028  
(212) 410-3080

**ALSoft, Inc.,**  
PO Box 927,  
Spring, TX 77383  
(713) 353-4090

**Apple Computer, Inc.,**  
20525 Mariani Avenue,  
Cupertino, CA 95014  
(408) 996-1010

**Inc. Ashton-Tate**  
Blvd. 6411 Guadalupe Mines Road  
200 San Jose, CA 95120  
95128 (408) 268-2300

**Berkeley Systems, Inc.**  
1700 Shattuck Avenue  
Berkeley, CA 94709  
(415) 540-5536

**Tom & Ed's Bogus Software**  
15600 N.E. Eighth Street, #A3334,  
Bellevue, WA 98008

**Jorg Brown (jbx)**  
111 Silver Hill Road  
Concord, MA 01742

**Steve Bryant**  
529 S 7th Street, #625  
Minneapolis, MN 55415

**Cambridge Information Ware**  
c/o Tech Alliance  
(800<sup>42</sup>) 245-8999

**Central Point Software**  
15220 NW Greenbriar Pkwy #200  
Beaverton, OR 97006  
(503) 690-8090

**CE Software**  
1854 Fuller Road, Box 65580  
W. Des Moines, IA 50265  
(515) 224-1995

**Churchill Development**  
Robert John Churchill  
1336 Geddes Apt. #7  
Ann Arbor, MI 48109

**Claris Corporation,**  
440 Clyde Avenue,  
Mountain View, CA 94043  
(408) 987-7000

**CompuServe**  
5000 Arlington Centre Blvd.,  
Columbus OH 43220  
(614) 457-8600

**Dayna Communications, Inc.**  
50 S. Main St., 5th Floor  
Salt Lake City, UT 84144  
(801) 531-0203

**Deneba Software**  
3305 NW 74th Avenue,  
Miami, FL 33122  
(305) 594-6965

**Charles Dunn**  
Physics Dept.,  
Cornell University  
Ithaca, NY 14853

**DigiTalk, Inc.**  
984 Airport Blvd.  
Los Angeles, CA 90045  
(213) 645-1082

**Electronic Arts**  
1820 Gateway Drive,  
San Mateo, CA 94404  
(415) 571-7171

**Farallon Computing**  
2201 Dwight Way,  
Berkeley, CA 94704  
(415) 596-9000

**Fifth Generation Systems**  
10049 N. Reiger Rd.  
Baton Rouge, LA 70809  
(504) 291-7221

**The Freesoft Company**  
150 Hickory Drive  
Beaver Falls, PA 15010  
(412) 846-2700

**Gadgets by Small, Inc.**  
46 W. Littleton Blvd.  
#210-211  
Littleton, Colorado 80120  
(303) 791-6098



**GENie** (General Electric Information Services)  
401 N. Washington St.  
Rockville, MD 20850  
(301) 340-4000

**Bob Hablutzel**  
Wildwood Software  
1940 Sherman #316  
Evanston, IL 60201  
(708) 328-9654

**Ben Haller**  
AppleSauce Designs  
32 Deer Haven Drive  
Ithaca, NY 14850

**Steve Halls**  
11135-50 Avenue  
Edmonton, Alberta  
T6H 0J1

**Jim Hamilton**  
2914 Aftonshire Way, #13102  
Austin, TX 78704

**Pete Helme**  
20525 Mariani Ave. 51-T  
Cupertino, CA 95014

**HJC Software, Inc.**  
PO Box 51816,  
Durham, NC 27717  
(919) 490-1277

**Icom Simulations, Inc.**  
648 South Wheeling Road  
Wheeling, IL 60090  
(312) 520-4440

**Informix Software**  
16011 College Blvd.,  
Lenexa, KS 66219  
(913) 599-7100

**Robert Johnson**  
Interactive Technologies, Inc.  
1720 N.W. River Trail  
Stuart, FL 34994  
(407) 692-9199

**John Lim**  
18 Nottingwood Street  
Doncaster East 3109,  
Victoria, Australia

**Letraset USA**  
40 Eisenhower Drive,  
Paramus, NJ 07653  
(201) 845-6100

**Dean Lu**  
20 Krebs Road  
Plainsboro, NJ 08536

**Lucasfilm Ltd.,**  
Games Division  
P.O. Box 10307  
San Rafael, CA 94912  
(415) 662-1902

**Magic Software, Inc.**  
1602 Cascio Drive  
Bellevue, NE 68005  
(402) 291-0670

**Magnus Corp.**  
9025 61st Pl. W.  
Mukilteo, WA 98275  
(206) 828-1789

**Mainstay**  
5311-B Derry Avenue  
Agoura Hills, CA 91301  
(818) 991-6540

**Maxis Software**  
953 Mountain View Drive,  
Suite #113  
Lafayette, CA 94549  
(415) 376-6434

**Microlytics, Inc.,**  
1 Tobey Village Office Park  
Pittsford, NY 14534  
(716) 248-9620

**Microseeds Publishing, Inc.,**  
7030B West Hillsborough Ave.  
Tampa, FL 33634  
(813) 882-8635

**Microsoft Corp.,**  
16011 NE 36th Way  
Box 97017  
Redmond, WA 98073  
(206) 882-8080

**James K. Miles**  
Mi Concepts  
P.O. Box 8822  
Kentwood, MI 49508

**Mindscape, Inc.**  
PO Box 1167  
Northbrook, IL 60065  
(708) 480-7667

**Natural Intelligence, Inc.**  
86 Richdale Ave.  
Cambridge, MA 02140  
(617) 266-7858

**John Norstad**  
Academic Computing and Networking  
Services  
Northwestern University  
2129 Sheridan Road  
Evanston, IL 60208

**Olduvai**  
7520 Red Road, Suite A  
South Miami, FL 33143  
(305) 665-4665

**Opcode Systems**  
3541 Haven Drive, Ste. A  
Melno Park, CA 94025  
(415) 369-8131

**Pairs Software**  
160 Vanderhoof Avenue,  
Suite 201  
Toronto, Ontario  
M4G 4B8  
(416) 467-8784

**Peripheral Land, Inc.**  
47800 Westinghouse Drive  
Fremont, CA 94539  
(800) 288-8754

**Personal Computers Peripherals Corp.**  
4710 Eisenhower Blvd.,  
Bldg. A4  
Tampa, FL 33634  
(813) 884-3092

**Preferred Publishers, Inc.**  
5100 Poplar Avenue, Suite 706  
Memphis, TN 38137  
(901) 683-3383

**Quark, Inc.,**  
300 S. Jackson Street,  
Suite 100  
Denver, CO 80209  
(303) 934-2211

**RasterOPS**  
2500 Walsh Avenue,  
Santa Clara, CA 95051  
(800) 952-6300

**Resonate**  
PO Box 996  
Meln Park, CA 94026  
(415) 323-5022

**John Rotenstein,**  
PO Box 165  
Double Bay, NSW 2028  
Australia

**Art Schulmer**  
13814 176th Place NE  
Redmond, WA 98052

**Chuck Shotton**  
c/o BIAP Products  
PO Box 580622  
Houston, TX 77258-0622

**Scott Silverman**  
PO Box 6379  
Haverhill, MA 01831  
(508) 373-0977

**Silicon Beach Software**  
9770 Carroll Centre Road,  
Suite J  
San Diego, CA 92126  
(619) 695-6956

**Simon & Schuster**  
15 Columbus Cir.  
New York, NY 10023  
(800) 223-2348

**Gregory J. Smith**  
Bucknell Computer Services  
Bucknell University  
Lewisburg, PA 17837

**Spectrum Holobyte**  
A Division of Sphere, Inc.,  
2061 Challenger Drive  
Alameda, CA 94501  
(415) 522-3584

**Strategic Simulations, Inc.,**  
675 Almanor Avenue  
Sunnyvale, CA 94086-2901  
(415) 964-1353

**Sun Microsystems**  
950 Marina Village Parkway  
Alameda, CA 94501  
(415) 769-8700

**SuperMac Software**  
485 Potrero Avenue  
Sunnyvale, CA 94086  
(408) 245-2202

**Symantec Corp.,**  
10201 Torre Avenue  
Cupertino, CA 95014  
(408) 253-9600

**Synergy Software**  
2457 Perkiomen Ave.  
Reading, PA 19606  
(215) 779-0522

**Tactic Software**  
(305) 378-4110

**TenPoint0**  
P.O. Box 3048  
Menlo Park, CA 94025  
(415) 329-7699

**Bruce Tomlin**  
15801 Chase Hill, Apt. 109  
San Antonio, TX 78256

Tom Bender  
**Trans-Tex Software**  
2102 Eagle Ct.  
San Angelo, Texas 76904

**User-Tek**  
4444 E. 66th Street, Ste. C  
Tulsa, OK 74136  
(800) 888-7640

**Maurice Volaski**  
29 Callodine Avenue  
Amherst, NY 14226-3125  
(716) 838-6663

**Andrew Welch**  
Mark 3 Software  
29 Grey Rocks Road  
Wilton, CT 06897

**Carlos Weber, MD**  
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San Francisco, CA 94114  
(415) 861-8956 (home)

**Russ Wetmore**  
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**Williams & Macius**  
P.O. Box 19206  
Spokane, WA 99219  
(509) 458-6312

**Word Perfect Corp.,**  
1555 North Technology Way  
Orem, UT 84057  
(810) 225-5000

**Working Software**  
PO Box 1844  
Santa Cruz, CA 950614  
(408) 423-5696

**Xtree Company**  
4330 Santa Fe Road  
San Luis Obispo, CA 93401  
(805) 541-0604

**zeta soft**  
2425B Channing Wy,  
Suite 492  
Berkeley CA 94704  
(415) 658-7213

## 17. Final Thoughts

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It seems that **INITInfo** is proving useful to a number of you. Dennis Klatzkin (70376,135) reports: “I’m a Contributing Editor for **MacWEEK** and write a biweekly column for them (‘The Human Interface’). I’m working on one right now that deals with what I refer to as ‘INIT hell’<sup>43</sup>. It’s not a technical article, but rather a look at some of the issues involved (who’s responsible for the situation what users, developers, Apple can do to help resolve it). Obviously, the sharing of information between users, such as your **INITInfo** uploads, is tremendously useful. I’d like to mention **INITInfo** in the column.” The issue appeared in the 10/17 issue of **MacWEEK** and we thank Dennis for the kind words.

And Bill Dwyer (75755,1140) reports: “This is a thank-you note for the recently downloaded **INITInfo** which has solved a problem that’s been driving me crazy for months. I run with **Juggler** and a lot of INITs. I also use **Desktop Manager** to get around the Finder limits on number of files (I have a 300M disk). The result was repeated ‘42’ errors (out of files). We’ve talked to Apple for months — until your download no one could tell me how to change the file count. Thanks very much”.

As can be seen from the following message, **MacJapan** has asked for (and been granted) permission to reprint **INITInfo**: “Thank you for your permission to us. We are glad that we can introduce your information about INITs to our Japanese readers. We plan to insert your article in **MacJapan** February '90 issue. We hope you do not give permission to reprint to another Japanese Macintosh Magazine in the next three months.” *Ayumu Kawazoe [72407,3173] MacJapan Tokyo JAPAN*

Finally, Apple Computer, in their technical department, are using this article to help control the bomb effect. So keep the info coming.

Any thoughts or comments on conflicts? Are there INITs, cdevs, DA’s or other lovelies out there that bug things up, or cause other incompatibilities? Any really wonderful INITs that we should all know about? Have we insulted your prize possession or prize creation? Tell us about your discoveries. Email a note so we can spread the news. This list is becoming more and more useful thanks to the feedback from **CompuServe** members.

And don’t forget to keep checking this forum for updates — we update whenever we have enough new information or revisions to the previous version.

Cheers.

Glenn Brown  
12 Monterey Drive,  
Nepean, Ontario, Canada  
K2H 7A6  
**MacNET: GLENNBROWN**  
**CompuServe 73777,1142**

Gary Ouellet  
50 O’Connor Suite 1300,  
Ottawa, Ontario, Canada  
K1P 6L2  
**CompuServe 73277,2757**

---

<sup>43</sup>

We can now say that we have been there.

## 18.Thanks

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Here are those who contributed to **INITInfo** (thanks to all):

Fred Bals	Ralph Brandi
Dave Burnam, Symantec	Rachel R. Caspi
Dave Giles, Up & Running Systems	Benjamin k Grossman (GENie: GWAIGILLION)
Bob Hablutzel	Kenroy Harrison, The Jungle
Larry Jackson, ArTeX	Steve Jong
Joe Liscouski	James K. Miles, Mi Concepts
Roberto Montandon, Italy (BIX: montandon)	Drew Woloshyn

### CompuServe Members:

Larry Balint	[73320,2632]
Joe Bates	[72410,27]
David Beatty	[73607,3332]
Steven Bobker	[74206,420]
Steve Brecher	[70001,1011]
Jörg Brown (jbx)	[73177,1404]
Brian Cherkas	[71251,3253]
Eric Clise	[76220,1701]
Curtis Corlew	[73437,732]
Bill Dwyer	[75755,1140]
Rob Elliott	[70675,1204]
Bruce Fraser	[73407,3711]
Thomas C. Gavlick	[76117,1171]
Peter Giotta	[72730,64]
Herb Goodman	[73300,3273]
Robert Greenberg	[72657,1475]
J Hewell	[71117,3700]
Dan Hogan	[73077,2752]
Dave Johnson, Working Software	[76004,2072]
Floyd Kemske	[73437,50]
Dennis Klatzkin	[70376,135]
Dave Kupiec	[71540,2576]
R.M. Lilienthal	[73210,2250]
Mike Liveright	[75206,2464]
Bill McCarthy	[76274,462]
Jim Moore	[74736,2567]
John L. Moss	[72537,24]
Rod Paine, ASTEC Co.	[72017,117]
Tom Petaccia	[76702,563]
Fabian Ramirez, SuperMac	[76004,2330]
Janet Reece	[72647,1775]
Tony Rojko, Potomac Ventures	[74007,2602]
David J. Rosenbaum	[76227,35]
Mike Schwartz	[70216,334]
Joe Sewell	[74136,360]
David Sternlight	[70735,1161]
Jeff Swart	[71210,26]
David Swift	[73270,302]
Palmer Tilden	[73577,2721]
Don Wershba	[71641,333]
Dean Wette	[72317,2034]
Kent Zimmerman	[73567,3551]

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Sorry, a system error occurred  
(Too many INITs loaded)

Reformat Drive

Give Up

Read INITInfo

ID = 12b9<sup>2</sup>

