

EUA, an Extended User Area for TMON

by Darin Adler (December 5, 1985)

This is a brief description of EUA. Full documentation is not yet available. This may have something to do with the fact that the author was reported dead on UseNet this summer. This interfered with progress on any documentation, since he believed the rumor. For those of you who read that Darin Adler was dead, it was just a hoax and a blatant misuse of UseNet.

Which Version?

The Extended User Area that this document describes is version 652.

How to Install the Extended User Area

There are two ways to use the EUA (or any user area) with TMON. Both are documented in the TMON manual. The first way is to put the EUA on the disk with TMON and name it "User Area". When TMON installs itself it automatically looks for a file called "User Area". If there is a file with this name on the same disk as TMON, it will load the file in instead of using the built-in user area inside TMON itself. The second way to load the EUA is to double-click the user area icon from the Finder. This will install TMON and load and use the Extended User Area. (If you use this second method, the EUA can be given a file name different from "User Area".) Remember, however, that once TMON is installed with a particular user area, the machine must be shut down before it can be used with a different one.

Patches in EUA

The extended user area performs several patches on TMON for compatibility of TMON with other products (usually due to bugs in the other products, not in TMON). The most recent patch fixes an incompatibility with TMON and GCC's HyperDrive 20. (GCC's next software release should have their software modified so that this problem will be corrected from both sides.) Another patch makes the `_Debugger` trap work properly and properly handles unimplemented A-traps. There is a patch for something bad that Apple does in their AppleTalk driver interface code (they check the value in address \$E0 which is *reserved* by Motorola and *changed* by TMON). There is a patch so that TMON will work with free form sound. This patch was necessary because of another bad thing Apple did in recent versions of the "System" File. TMON itself was patched to call the extended user area so that the background screen is the application screen and not just the grey TMON background. In addition, when using EUA, TMON does not restore the mouse coordinates from the application which used to cause the mouse to jump around after a STEP, TRACE, GOSUB, or EXIT.

New Features Provided in EUA

EUA provides functions called **Stack Crawl**, **Stack Addresses**, **Discipline**, **Finder** and **Shut Down**. Many existing functions have been given more consistent names, and the user area window has been divided into two sections which can be toggled, so that the window will take up less room on the screen. The user area also provides a built-in table with labels for all the low memory globals described in the *May 1985 Software Supplement* plus a few others.

The EUA is *not* a product of ICOM Simulations (distributors of TMON). It is public domain software. The debugger, TMON, is available from ICOM Simulations, (312) 520-4440. The author of EUA can be contacted on UseNet at {ihnp4,allegra,seismo}!ut-sally!ut-dillo!darin.