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|---|---|---|
| System Requirements | To mount the E.T.O. CD-ROM, you'll need the following: | · Any Macintosh with an Apple compatible CD-ROM drive attached |
| | To use the products on E.T.O., you'll need | · a Macintosh Plus or better, hard disk, 2 MB of RAM required (at least 4 MB recommended). See information for the individual tools products for additional requirements |
| Ordering Information | E.T.O.<br>Essentials · Tools · Objects<br>· Starter Kit<br>· 4 - Quarter Update Subscription<br>· Upgrade Starter Kit | When you buy E.T.O., you will get<br><br>· The E.T.O. CD-ROM<br>· Printed manuals and release notes for current APDA versions.<br>· Three additional quarterly update mailings, which include latest E.T.O. CD-ROM, latest release notes and revised manuals. Subscription renewal available on annual fee basis. |
| APDA<br>Apple Programmer's and<br>Developer's Association | Apple Computer, Inc.<br>20525 Mariani Ave. MS 33-G<br>Cupertino, Ca 95014<br>800-282-2732 U.S.A.<br>800-637-0029 Canada<br>408-562-3910 International<br>TLX: 171-576 | AppleLink® address: APDA<br>Fax: 408-562-3971<br>CompuServe: 76666,2045<br>MCI: Postrum<br>Genie: A.Developer3 |

# Product Details

## Macintosh Programmer's Workshop

The Macintosh Programmer's Workshop (MPW) Development Environment is the primary Apple software development environment for the Macintosh computer. Features of this product include the MPW Shell, a customizable and extensible, multiwindow text editor and command interpreter; and Projector®, a powerful source-code control system that can be used by single users or by an entire development team.

## Information Access

E.T.O. includes an integrated, onscreen programmer's reference that lets you directly access Macintosh programming information about the toolbox, interfaces, Inside Macintosh and more. You can also access this information from within the MPW environment and from MacBrowsˢ, the MacApp browser.

## MacApp® 2.0

MacApp is the Apple object-oriented application development framework. Use MacApp for developing rich Macintosh applications that support printing, multiple documents, desk accessories, and more. MacApp includes the MacApp class library and source code, Object Pascal and C++ example programs, a source-code browser, a debugger, a class inspector, a view editing tool, and an online class and method reference. In addition to the regular samples included in the MacApp product, E.T.O. also includes a collection of unsupported MacApp samples.

## C++

Apple's implementation of C++ fully supports the industry standard for object-oriented C, as defined by AT&T's C++ release. Apple has enhanced the language to support the Macintosh Toolbox and operating system, Object Pascal-based functions and procedures (such as those found in MacApp), and the Standard Apple Numerics Environment (SANE®). MPW C++ can be debugged at the C++ source level using Apple's Symbolic Application Debugging Environment (SADE®). MPW C++ out-performs typical CFront implementations through the careful integration of portions of Apple's own MPW C compiler into CFront and the addition of precompiled header.

## Developer Essentials

These are the tools and information that every developer of products for Macintosh should have, regardless of what development system they use. Developer Essentials includes electronic versions of Inside Macintosh (called SpInside Macintosh), Apple DTS Technical Notes, DTS Sample Code, Human Interface Notes, U.S. and international versions of Macintosh system software and HyperCard®, and more.

## ResEdit

ResEdit is an editing utility for programmers who need to manipulate various resources while they develop applications for the Macintosh. ResEdit is especially useful for creating and changing graphical resources, such as dialog boxes and icons. ResEdit is designed so that you can modify it to deal with new resource types. A few of the resource types with editors built into ResEdit are BNDL, cicn, CURS, Finder icons (icl8, icl4, ics8, ics4), ICON, ICN#, SICN, FONT, PAT, PAT#, INTL, itl0, itl1, KCHR, and MENU.

## MacsBug

MacsBug is a debugging utility for programmers who want power, expandability, and reliability when developing professional applications for the Macintosh. MacsBug can display and set memory registers, disassemble memory, set execution breakpoints, step and trace through both RAM and ROM, monitor system traps, and display and check the system and application heaps. It provides full Motorola 68000-family support, and works with external displays on the Macintosh Plus and SE, as well as various screen sizes and bit depths on Macintosh II. And you can extend the features of MacsBug through the use of external commands, called dcmd's.
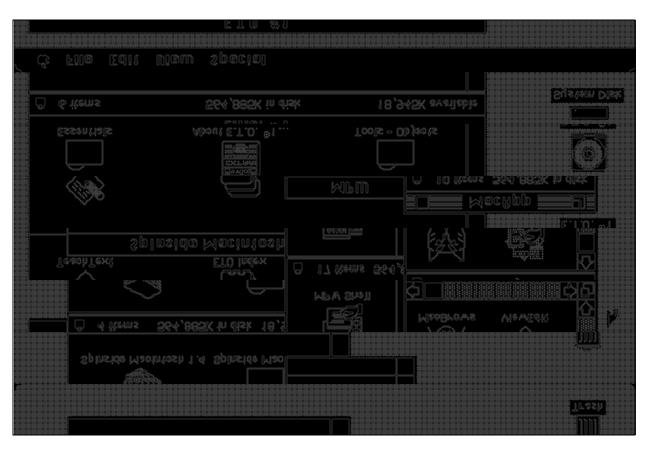
| Features | Benefits |
|---|---|
| Distributed on CD-ROM | · All your tools in one convenient package.<br>· Searchable, printable, electronic versions of Apple's developer documentation like Inside Macintosh, Volumes 1-5.<br>· Early access to the future versions of Apple's tools through pre-release versions that are included on every E.T.O.: Essentials-Tools-Objects CD-ROM. |
| Sold by Subscription | · No waiting to see if new versions of your tools have been released.<br>· For a low annual subscription fee, automatic updates of all the tools in the E.T.O. Development Tools family every three months. |
| Convenient file arrangement | · All tools logically arranged in folders that you can easily drag onto your hard disk.<br>· The ability to update your existing development system or create a new version in moments.<br>· Use the E.T.O. installer to automatically put any of the tools and versions on your machine without swapping disks. |

# E.T.O.:
# Essentials · Tools · Objects

# Overview

E.T.O.:Essentials-Tools-Objects isthemostcompleteandcomprehensivecollectionofApple® DevelopmentToolseverpresentedinasinglepackage.DistributedexclusivelyonCD-ROM, E.T.O.alsohasauniqueupdate program:everythreemonthsa newE.T.O.CD-ROM,software updates,printedreleasenotes, andrevisedmanualswillbesent tosubscribers.

E.T.O.istheultimatedevelopmentpackagefortheMacintosh® powerprogrammer.Itincludes thelatestversionsofthemost widelyusedmembersoftheApple toolsfamily.Italsoincludesthe MacintoshProgrammer'sWork-shop(MPW®),apowerful,multi-languagedevelopmentenvironmentthat'sidealifyouwant power,flexibility,andreliability.

You'llusethepowerfulMPW scriptinglanguagetoautomate yourworkandcustomizecommandsandmenus.E.T.O.provides toolsforawiderangeofprogrammers-from68000familyassembly tosophisticatedOOPunderC++ andObjectPascal.

YoucanusetheMacApp® applicationframework,also includedinE.T.O.,whichhandles standardMacintoshuserinterface features,providingafoundation foryourapplications.

E.T.O.containsutilitieslike ResEdit$^s$andMacsBug;U.S.and internationalversionsofMacintoshsystemsoftware;electronic versionsofdeveloperdocumentation,suchasSpInsideMacintosh (InsideMacintosh,Volumes1-5), technicalsupportmaterial,and selectedpre-releaseversionsof theE.T.O.tools.

E.T.O.isavailabletoApple Partners,Associates,andall APDA$^s$members.Thecomplete E.T.O.starterpackageincludes completeprinteddocumentation forallE.T.O.toolsandoneyearof updates.Ifyoualreadyhavethe latestversionofsomepartsof E.T.O.,partialstarterpackagesare available.