

## APDA Toolshed

The APDA™ CATALOG/August 1987

### ABOUT AUTO-ORDER

Note: There have been substantial changes to the Auto-Order system. "Global auto-orders have been eliminated. All existing global auto-orders under the old system have been cancelled. Auto-Orders available only for products with the "AO#" code. The fact that we list an Auto-Order code does not guarantee that there will be an improved version of that particular product in the future. It simply says: if there is, you'll get it. NOTE THE DIFFERENCE between Auto-Orders and Updates. Update brings you up to the version of the product listed in this catalog if you have a previous version. Auto-Order to receive future upgrades beyond the product listed in this catalog.

### PRODUCTS FROM APPLE COMPUTER, INC.

Apple® software is provided to APDA members subject to the conditions contained in the membership agreement and the application you signed when joining APDA. Terms of the agreement are also stated on the back of each product package ordered. APDA Apple products are provided without technical support. Products marked New! have been added since the most recent publication of APDAlog (August,1987).

### ABOUT UPDATES

Updates only available to members who have purchased the original item as indicated in product description .

### APPLE IIGSSOFTWARE

Apple II GS BASIC v. 1.0B4                      New!

#K2SBAB            \$50.00 (\$3.19)

AO#U2SBAB

A BASIC interpreter for the IIGS that fully supports its advanced capabilities. Features structured programming control structures, procedures and functions with local labels, sophisticated I/O functions, and SANE numerics. Also includes full support for the IIGS tools via a high-level symbolic interface. Allows full use of expanded memory of IIGS. Includes a complete set of tool interface files. Requires minimum 512K and 3 1/2" disk drive.

Apple IIGS Debugger    New!

#K2SBUG            \$15.95 (\$.94)

AO#U2SBUG

Machine level debugger displays registers, memory locations, the direct page and stack, and lets you switch between the application's and the debugger's display screens. Includes memory mangler and loader dumper desk accessories. Same versions of debugger and the DA's released with APW v1.0B4. If you have the B4 release of APW you do not need to purchase this package. Requires 512K of memory and one 3.5" disk.

Apple IIGS Demo Sampler Source Code

#K2SGSD            \$18.75 (\$.50)

AO#U2SGSD

Programmer's Introduction to the Apple IIGS    New!

#K2SPIG            \$37.50 (\$3.40)

Comprehensive introduction to programming the Apple IIGS, with major emphasis on programming for the desktop environment using the IIGS tools. A detailed look at a demo application, HodgePodge, which touches all of the major issues of Apple IIGS programming. Uses a TML Pascal implementation of HodgePodge for illustration; appendices include versions of the same application written in APW 65816 assembly language and in APW C. Indispensable guide for those embarking upon IIGS applications development for the first time, and a

comprehensive summary for experienced developers. 450 pages. Source code to all three versions of HodgePodge is provided on an accompanying 3.5" disk.

Apple IIGS System disk v.3.1 New!

#K2SSS3 \$12.50 (\$69)

AO#U2SSS3

Contains the September 1987 Apple IIGS system software (latest version), including the new finder (replaces Apple II DeskTop); includes a new version of System Utilities that provides faster and easier file/disk copy. Finder requires 512K RAM. Contains one 3.5" disk and extensive release notes documenting new tool calls not found in current releases of the Apple IIGS Toolbox Reference.

APW Products:

APW v. 1.0 New!

#K2SAW1 \$100.00 (\$4.19)

AO#U2SAW1

Apple's native development system for the Apple IIGS. As a complete development system, includes a command shell, linker, and utilities. The host for other APW language products. Includes a complete 65816 macro assembler. Shell environment also provides utility programs with useful extensions to ProDOS16. The full-screen text editor copies, moves and deletes blocks, searches and replaces, and executes editor command macros. Various utility programs round out the package. Revised, up-to-date tool interfaces are included. Requires 1.25MB RAM memory (motherboard memory + 1MB expansion RAM), two 3.5" disk drives or one 3.5" disk drive and a hard disk. Hard disk is highly recommended. Contains two 3.5" Apple II disks, and over 600 manual pages.

APW v.1.0 Update New!

#K2S1AU \$30.00 (\$4.19)

This order number allows purchasers of previous versions of APW to update to the 1.0 final software at a reduced cost. Unlike previous updates, which consisted of software and release notes only, this update includes a complete new manual. Updates are only available to members who have previously purchased earlier releases of APW.

APW C: Apple IIGS Programmer's Workshop C V 1.0B7

#K2SAPC \$75.00 (\$1.31)

AO#U2SAC1

Requires APW V1.0B4 (will not work with earlier versions APW; see APW V1.0B4 listing) or APW v1.0, also 1.25MB RAM memory (motherboard memory + 1MB expansion RAM); two 3.5" disk drives or one 3.5" disk drive and a hard disk. Hard disk is highly recommended. Auto-Order available only to those who have APW C V1.0B7.

APPLE IIGS DOCUMENTS

Apple IIGS Toolbox Reference

#K2BGT2 \$60.00 (\$8.00)

AO#U2BGT2

Over 1,500 pages. Supersedes #K2BGST.

APPLE II SOFTWARE

Apple II Pascal v. 1.3 New!

#K2SP13 \$75.00 (\$5.50)

Apple's classic implementation of the UCSD p-system for the Apple II family. A complete development and operating environment supporting the Pascal language. Different versions of the interpreter are provided for both 64K systems (i.e., Apple II's and II+'s), as well as 128K //e's and //c's. Also compatible with the Apple IIGS. Includes 400 pages of documentation, and software on both four 5 1/4" disks as well as on one 3 1/2" disk. Requires two 5 1/4" drives or one 3 1/2" drive, 64K of memory.

ProDOS8 Version 1.4 Update  
#K2SP84 \$13.50 (\$.56)  
AO#U2SP84  
Replaces version 1.3

ProDOS Assembly Tools  
#K2SPAT \$25.00 (\$2.00)  
AO#U2SPAT  
Requires II system with at least 64K of RAM. ProDOS Technical Reference Manual and ProDOS Utilities Manual strongly recommended.

## APPLE II DOCUMENTS

Printed Technical Notes:

1985 Apple II Technical Notes  
#K2BT85 \$25.00 (\$.94)

1986 Apple II Technical Notes  
# K2BU86 \$25.00 (\$2.00)

1987 Apple II Technical Notes  
#K2BT87 \$25.00 (\$3.00)  
Mailed (bimonthly basis) throughout the calendar year.

Apple II Tech Notes on Disk:  
Complete sets of Apple II Notes on single-sided Mac disks.

1985 Apple II Technical Notes on Disk  
#K2ST85 \$20.00 (\$.38)

1986 Apple II Technical Notes on Disk  
#K2ST86 \$20.00 (\$.38)

1987 Apple II Technical Notes on Disk  
#K2SU87 \$40.00 (\$1.50)  
Mailed (bimonthly basis) throughout the calendar year.

General Products for the II:

Apple II SCSI Card Technical Reference Manual  
#K2BSCS \$11.00 (\$.81)  
AO# U2BSCS  
How the card works, and how to use it.

Apple II Memory Expansion Card Reference Manual  
#K2BMEC \$15.00 (\$.75)  
AO#U2BMEC  
Technical description of II Memory Expansion Card for programmers/technical enthusiasts.

Apple IIc Memory Expansion Card Reference Manual  
#K2BCME \$14.75 (\$.50)  
AO#U2BCME  
Technical data about the IIc memory expansion card.

Apple IIc Monitor ROM Listings  
#K2BCRM \$27.50 (\$3.31)  
AO#U2BCRM  
Assembler listings for the standard, memory-expanded, and Uni-Disk ROMs for the IIc.

## MACINTOSH SOFTWARE

MPW/MacApp™ Products:

Macintosh Programmer's Workshop (MPW) v. 2.0      New!

#KMSM2I      \$200.00      (\$6.00)

AO#UMSM2I

Complete, professional-level, integrated programming environment for the Macintosh. Translation utilities are provided to convert MDS and Lisa assembler source. Requires a Mac with at least 128K of ROM (512KE [with additional RAM], Plus, SE, II), 1 MB RAM or more, a double-sided disk drive, and a hard disk.

MPW C v. 2.0      New!

#KMSC2I      \$150.00      (\$3.00)

AO#UMSC2I

Native Mac C compiler, standard C library, Mac interface libraries, and sample programs. Object modules created by MPW C compiler link-level compatible with the MPW assembler and Pascal object modules. MPW C 2.0 requires MPW 2.0.

MPW Pascal v. 2.0      New!

#KMSP2I      \$150.00      (\$3.00)

AO#UMSP2I

Native Mac Pascal compiler, run-time library, Mac interface libraries, and sample programs. Pascal text formatter and cross-reference tools included. Object modules created by Pascal compiler can be linked with MPW assembler and C object modules. Requires MPW 2.0. Supports Object Pascal extensions required by MacApp.

MacApp™: The Expandable Macintosh Application v.1.1.1      New!

#KMSMAI      \$100.00      (\$3.00)

AO#UMSMAI

Object-oriented programming library that implements the standard features common to most Mac application programs, includes a powerful high-level debugger. Source for MacApp and 11 sample programs included. MacApp 1.1.1 extends MacApp 1.0 to support the features of the SE and II. MacApp 1.1.1 requires MPW v. 2.0 and MPW Pascal v. 2.0 (or v. 2.0B1). V 1.1 Source Listings recommended.

MPW /MacAppUpdates:

Updates previous MPW versions to version 2.0, MacApp to 1.1.1.

MPW 2.0 Update      New!

#KMSMIU      \$75.00 (\$6.00)

Upgrade to v 2.0 of MPW.

MPW C 2.0 Update      New!

#KMSCIU      \$25.00 (\$2.50)

Upgrade to v 2.0 of MPW C.

MPW Pascal 2.0 Update New!

#KMSPIU      \$25.00 (\$2.50)

Upgrade to v 2.0 of MPW Pascal.

MacApp™ v.1.1.1 Update      New!

#KMSU11      \$15.00 (\$.63)

Updates to v.1.1.1. Contains release notes and new software only.

Smalltalk Products:

Smalltalk-80™ v. 0.4      New!

#KMSST4      \$75.00 (\$1.19)

AO#UMSST4

Not designed for serious software development. New version can be used with any Mac with at least 1MB of RAM (II, SE, and Plus). Hard disk recommended. Apple does not provide any support, not even to certified or registered developers. (Institutional license available; any purchased in the past will apply to all versions through 0.4).

Smalltalk-80™ v.0.4 Update    New!

#KMSS4U        \$25.00 (\$1.00)

Intended for v. 0.3 owners who wish to run Smalltalk on a II or SE. Images from earlier versions will not run under the interpreter; however, changes can be moved (fileOut and fileIn). Only available to members who purchased v.0.3.

#### Script Manager Products:

Arabic Macintosh System Software v.1.1

#KMSSMA        \$12.25 (\$.56)

AO#UMSSMA

Provides an Arabic language version of the Mac System Software. If you purchased the Script Manager Developers Package v. 1.0, you do not need this

Kanji Macintosh System Software v. 1.1

#KMSSMK        \$12.25 (\$.63)

AO#UMSSMK

Provides a Japanese language version of the Mac System Software. If you purchased the Script Manager Developers Package v. 1.0, you do not need this

Script Manager Developer's Package v. 1.0

#KMSSMD        \$25.00 (\$1.12)

AO#UMSSMD

Toolbox extensions allow applications to function correctly with non-Roman writing systems (ie. scripts, Japanese and Arabic), as well as with Roman writing systems (English, French, German etc).

#### System Software:

Macintosh System Software v. 1.0

#KMSSS1        \$15.00 (\$.50)

Contains the June 1986 software and release notes, developer information, and a list of known bugs. Recommended version of Macintosh System Software for the Mac 512Ke and earlier. Use to test software for compatibility.

Macintosh System Software v. 2.0        New!

#KMSSS2        \$15.00 (\$.50)

AO#UMSSS2

Contains the 1987 software v.2.0.1 & includes release notes, developer information, and a list of known bugs. Newer APDA version in progress; use Auto-Order to have it as soon as it is available.

#### Miscellaneous Development Tools:

HyperCard™ Technical Reference, Draft New!

#KMBHTL        \$19.95 (\$1.60)

AO#UMBHTL

Contains information pertinent to those interested in HyperTalk™ scripts and developing Stackware™. Included in package are HyperCard Script Language Guide, HyperCard Stack Design Guidelines, and a disk documenting XCMD's (including video drivers) and their uses. DOES NOT contain HyperCard™ software or User's Guide. Final edition to be published in early 1988 by Addison-Wesley.

MultiFinder™ Development Package, v. 1.0    New!

#KMSMFD        \$12.50 (\$0.50)

AO#UMSMFD

First generation multitasking operating system for the Mac. Documents describe how to write applications that are compatible, test for compatibility, write background applications, write applications that take advantage of background printing. MPW Assembler, C, and Pascal interface files for MultiFinder Toolbox routines are provided. DOES NOT contain software which will be released as part of new Mac System Software available September, 1987.

Macintosh Development Utilities v. 1.0

#KMSDU1        \$25.00 (\$1.69)

AO#UMSDU1

Newer versions of Edit, PrintCalls.Rel, and MacsBug available in 'MDS 2.1 Update'.

Macintosh Example Applications and Sources v. 1.0

#KMSEA1 \$15.00 (\$.50)

AO#UMSEA1

Source included.

MDS 2.1 Update

#KMS21U \$10.00 (\$.31)

Consulair now marketing MDS as "Consulair 68000 Development System". This updates others.

SCSI Development Package v.1.0

#KMSSDP \$10.00 (\$.44)

Developers working on SCSI peripherals.

Toolbox Interface Reference Package, v. 2.0 New!

#KMSTIR \$10.00 (\$.50)

AO#UMSTIR

Assembler includes and Pascal interface files from MPW 2.0 and MPW Pascal 2.0. A reference to Toolbox calls, because descriptions in the currently available APDA draft of Inside Macintosh, Volume V are incorrect. Already purchased MPW 2.0 or MPW Pascal 2.0, you do NOT need this.

#### MACINTOSH DOCUMENTS

Printed Mac Tech. Notes: Complete sets of the Macintosh Technical Notes.

1985 Macintosh Technical Notes

#KMBTN5 \$25.00 (\$.94)

1986 Macintosh Technical Notes

#KMBTN6 \$25.00 (\$.63)

1987 Macintosh Technical Notes

#KMBTN7 \$25.00 (\$.30)

Mailed on a bimonthly basis throughout the calendar year.

Mac Tech Notes on 400K Disk:

1985 Macintosh Technical Notes on Disk

#KMSTN5 \$25.00 (\$.63)

1986 Macintosh Technical Notes on Disk

#KMSTN6 \$25.00 (\$.63)

1987 Macintosh Technical Notes on Disk

#KMSTN7 \$40.00 (\$1.00)

Mailed on a bimonthly basis throughout the calendar year.

General Mac Documents:

Inside Macintosh, Vol. 5, Final APDA Draft New!

#KMBI5F \$20.00 (\$2.31)

Hundreds of important changes, corrections, and clarifications since previous draft. Addison-Wesley version available in early 1988 which will contain some reformatting, improved artwork, and the addition of appendices and an index. Technical content will remain the same.

MacApp™ 1.1 Source Listings

#KMBA11 \$30.00 (\$2.75)

AO#UMBA11

Package (500-page) of cross-referenced listings of MacApp 1.1 source code and

MacApp sample programs.

Macintosh II and Macintosh SE Cards and Drivers, Draft

#KMBCCD \$15.50 (\$1.50)

AO#UMBCCD

Hardware and software requirements for developing cards and drivers for the II & SE. Very preliminary draft. A newer APDA version progress; use Auto-Order to have it sent as soon as available.

Macintosh Family Hardware Reference, Draft

#KMBMFH \$18.50 (\$1.94)

AO#UMBMFH

Very preliminary reference on hardware of the Mac family including Plus, SE, and II. Newer APDA version in progress; use auto-order to have it sent as soon as available.

PICT File Format Notes New!

#KMBPFN \$10.00 (\$.50)

AO#UMBPFN

Identical to the PICT package sent to all certified and registered developers.

Software Applications in a Shared Environment

#KMBSAS \$8.50 (\$.50)

AO#UMBSAS

Details necessary for applications to function in a shared environment (network file servers and multitasking operating systems).

#### OTHER PRODUCTS

Apple Publications Tool Kit

#KNBPTK \$17.50 (\$1.06)

AO#UNBPTK

Also provided on a Mac disk (included) in Microsoft Word "glossary".

AppleTalk Filing Protocol (AFP) Engineering Technical Notes

#KNBAFP \$13.75 (\$1.00)

AO#UNBAFP

Contains Notes that specify version 1.1 of this protocol, including the system model, calls, and packet formats.

AppleTalk Manager Update

#KMSAMU \$13.50 (\$.69)

AO#UMSAMU

An enhanced version of the AppleTalk drivers, a maintenance release of the high-level ("Pascal") interface for MPW and the new XPP driver.

Human Interface Guidelines

#KNBHIG \$10.00 (\$.88)

Describes the rationale behind the Apple desktop interface. This product does NOT contain any Updates.

Human Interface Guidelines Updates New!

#KNBHIU \$10.00 (\$.44)

AO#UNBHIU

Published on an occasional basis by Apple Computer. Package contains Human Interface Guidelines updates 1—9. Use Auto-Order for future releases. Identical to the Human Interface Technical Notes, sent to all certified and registered developers.

ImageWriter LQ Reference New!

#KNBILQ \$17.95 (\$1.10)

AO#UNBILQ

Covers basics of printer, external and internal bit mapped fonts, configurations of printer commands, DIP and software switches, character sets and lots more. Designed for programmers and other experienced users.

#### Inside AppleTalk

#KNSIAT \$17.50 (\$1.44)

AO#UNSIAT

All of the hardware and software information needed to develop an AppleTalk peripheral or application; disk contains utilities for network monitoring.

#### LaserWriter Reference Manual

#KNBLRM \$17.50 (\$1.06)

AO#UNBLRM

Updated version of "Inside LaserWriter". Primarily for application developers, also for those using the LaserWriter in non-Mac environments.

#### Apple II and Macintosh Development Software A Guide to Languages and Tools Summer 87

#KNBDLT Free! (\$3.50 or \$.31)

Direct from the Developer Tools Group's database at Apple Computer-all the languages, utilities, tools and libraries they know of for the Mac and Apple II. Product listings, company addresses and phone numbers, and a form you can fill in to let Apple know about your company's languages, tools, etc. The product is free, but if ordered by itself we'll need to charge you \$3.50 for first-class postage and handling (U.S. and Canada; foreign postage extra). Order it with your regular order, it adds just \$.31 to your overall U.S. shipping charges, and will come with your order.

#### Ye OldeCuriosity Shoppe

The door creaks as you enter, and the musty, dusty odor of old leather, cobwebs, and mildew sends your mind reeling down memory lane. Your pulse quickens, imperceptibly, in anticipation as the wizened shopkeeper hobbles towards you. You snoop around...old junk, mostly, but maybe somewhere in this pile of odds and ends, you'll find that rare motor operated pushover you've been seeking...These products, like the neat junk, have uses for some people, or on some machines. There are no Auto-Orders for Curiosity Shoppe items.

#### Apple II Products

##### Apple II Filecard Toolkit

#K2SFCT \$25.00 (\$1.00)

Implemented in Pascal, Applesoft and Assembler.

##### Apple II Pascal 1.3 Device Support Tools

#K2S13T \$18.50 (\$1.06)

System.attach file lets drivers written for v. 1.2 work with v. 1.3.

##### Desktop Toolkit - Pascal v. 1.0B5

#K2SDTP \$29.50 (\$2.00)

Library of routines for the IIc, IIe (128K required) and IIGS. Includes graphics primitives.

##### Desktop Toolkit - ProDOS v. 1.0B5

#K2SDTD \$29.50 (\$2.00)

Library of routines for the IIc, IIe (128K required) and IIGS.

And in the darkest dusty corner of the shop... the real stuff!

##### DOS [3.3] Programmer's Manual

#K2BDPM \$10.00 (\$.56)

The last known copies of the Programmer's Manual in existence. Covers the DOS environment, programming DOS commands in Applesoft, text files, etc. Covers II, II+ and IIe; 1982.

##### DOS [3.3] User's Manual

#K2BDUM \$10.00 (\$.56)

Also dusty,... less detailed than the Programmer's manual, this old timer



contains a tutorial, basics of how DOS works, using disks, files and programs.(II, II+ and IIe),1983.

Super Pilot Special Edition

#K2SPLT \$30.00 (\$.56)

Special features allow high-volume users expand SuperPILOT.

Lisa Products

Lisa Workshop Supplement

#KSMLW1 \$25.00 (\$.88)

Latest version of assembler equates, Pascal interfaces, and object files for use when developing Mac software using the Lisa Pascal Workshop.

Lisa Workshop C

#KMSLWC \$50.00 (\$3.00)

A C compiler that runs under Lisa Pascal Workshop 3.0, a Standard C library, and interface files supporting the 64K Macintosh ROM. Requires a Lisa or a Macintosh XL running Lisa Pascal Workshop 3.0, and the Lisa Workshop Supplement.

Macintosh Products

Macintosh Programmer's Workshop (MPW) v. 1.0.2

#KMSMPW \$150.00 (\$4.63)

Less powerful version of MPW 2.0, should only be used if hardware required to run MPW 2.0 is not available. Requires a Mac (or Lisa running MacWorks) with at least 512K of RAM and 1.6MB of disk. 1MB of RAM and hard disk highly recommended.

MPW C Language v. 1.0.2

#KMSMPC \$125.00 (\$2.06)

Less powerful version of MPW C 2.0, should only be used if hardware required to run MPW C 2.0 is not available. Only generates 68000 object code. Requires MPW v.1.0.2, a Mac (or Lisa running MacWorks) with at least 1MB of RAM and 1.6MB of disk. Hard disk highly recommended.

MPW Pascal Language v. 1.0.2

#KMSMPP \$125.00 (\$2.50)

Less powerful version of MPW Pascal 2.0, should only be used if hardware required to run MPW Pascal 2.0 is not available. Only generates 68000 object code. Requires MPW v. 1.0.2, a Mac (or Lisa running MacWorks) with at least 512K of RAM and 1.6MB of disk. 1MB of RAM and Hard disk highly recommended.

MPW 1.0.2 Update Package

#KMSM2U \$20.00 (\$.88)

Product upgrades previous MPW 1.0B and 1.0 products to 1.0.2 by fixing two problems that existed in earlier versions. Note: you only need this if you purchased MPW 1.0.

MacApp™: The Expandable Macintosh Application v.1.0

#KMSAP1 \$100.00 (\$3.00)

Old version of MacApp requires Macintosh Programmer's Workshop (MPW) and MPW Pascal v 1.0 or v 1.0.2 running on a Mac (or Lisa running MacWorks) with 1MB of RAM and hard disk.

MacApp™ 1.0 Source Listings

#KMBMS1 \$30.00 (\$2.75)

494-page package includes cross-referenced listings of the 1.0 source code and listings of the sample programs.

Smalltalk-80™ v. 0.2

#KMSST2 \$50.00 (\$1.00)

Old version (from August 1985) with a stripped-down image that can be used with the 512K. Does NOT support HFS.

#### Journaling and Guided Tour

#KMSJGT \$15.00 (\$.88)

Requires MacDraw™; (MacinTalk Development package required for use with optional computer-generated speech). Known NOT to work on SE and II. Apple does NOT guarantee that Journaling and Guided Tour will work on any current or future Mac hardware/system software configurations.

#### MacinTalk Development Package v. 1.31

#KMSTD3 \$10.00 (\$.63)

Tools and documentation useful in developing applications that access MacinTalk. Interface files are provided for Lisa Workshop, MDS, and MPW. Also contains the source code for MacinTalk interface files (not included in the Mac Software Supplement). Apple does NOT guarantee that MacinTalk will work on any future Mac hardware/system software configurations. Updated to work on the SE, II, and Plus and SE with some third-party accelerator boards.

#### Switcher Developer's Kit v. 1.0

#KMSSD1 \$13.50 (\$.63)

A manual written for experienced assembly language programmers, kit also has Switcher v 5.0 software. Switcher known NOT to work on the SE and II. Apple does NOT guarantee Switcher to work with any current or future hardware/system software configurations.

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#### THIRD-PARTY COMMERCIAL SOFTWARE

##### APPLE IIGS SOFTWARE

#### LifeGuard (Harbor Software) New!

#T2SLGD \$41.95 ( \$0.32 )

ProDOS 16 file recovery program with full Mac style interface that works with 5.25 and 3.5" disks. Will only recover files deleted under ProDOS 1.3 or later. With Loader 1.2 and ProDOS 1.4 on 3.5" disk.

#### Merlin to Orca/M Source Code Translator (Byte Works)

#T2SMX6 \$18.50 (\$.75)

ProDOS16 version. Source code included.

#### ORCA/M 1.0 for the Apple IIGS (Byte Works)

#T2SRCG \$44.95 (\$2.00)

Supports 6502, 65C02 and 65816. Requires IIGS with 3.5" disk, 256K added memory. Compatible with APW.

#### ORCA/M Library Source (Byte Works)

#T2SOLS \$25.95 (\$.50)

Contains the source code to the ORCA/M subroutine library. Compatible with APW.

#### ORCA/M Utility Package #1 (Byte Works)

#T2SMU1 \$24.95 (\$.50)

Adds 12 new commands to your ORCA/M or APW shell. Source code included.

#### ORCA/Pascal (Byte Works) New!

#T2SOPL \$72.95 (\$1.63)

Complete implementation of ISO Standard Pascal fully compatible with APW C, APW, and the ORCA/M macro assembler. Full access to IIGS toolkit tools provided. Separate and partial compilation. Requires additional 512K and one 3.5" drive.

TML Pascal for the IIGS (TML Systems)

#T2STPG \$119.95 (\$1.50)

APW is required. Source code compatible with TML v2.0 Pascal for the Mac

TML Source Code Library (TML Systems)

#T2STPS \$39.95 (\$.69)

A collection of TML Pascal source code demonstrating the use of the IIGS ROM Tools.

APPLE II, IIc & IIe

## II LANGUAGE & LANGUAGE SUPPORT

Kyan Pascal (Kyan Software)

#T2SKYP \$49.95 (\$2.00)

A ProDOS, 6502 code generating full implementation of ISO Pascal; will run on any Apple II with 64K.

Merlin Pro Assembler (R. Wagner Publ.)

#T2SMRL \$64.95 (\$1.19)

Requires a 128K IIe, IIc or IIGS with DOS 3.3 and ProDOS 8.

Merlin to Orca/M Source Code Translator (Byte Works)

#T2SMX8 \$19.95 (\$.75)

ProDOS8 version. (See IIGS section.)

MON+ Symbolic Debugger (Byte Works)

#T2SMSD \$21.95 (\$.44)

Requires ORCA/M.

ORCA/M 4.1 Macro Assembler (Byte Works)

#T2SRCM \$69.95 (\$2.75)

For the II+, IIc and IIe. Now upward-compatible to the new ORCA/M for the IIGS (see above).

ORCA/M 4.1 O/S Source (Byte Works)

#T2SRC1 \$25.95 (\$.50)

Source for the operating system, the subroutine libraries, and the XREF utility. Possible to configure clock card for slot other than #2.

ORCA/M 4.1 Floating Point Libraries (Byte Works)

#T2SRCF \$21.95 (\$.56)

Macro and subroutine library support for IEEE format single and double precision numbers. Source code included. (Requires ORCA/M.)

Small-C Compiler (Byte Works)

#T2SSCC \$27.95 (\$.63)

All full C language statements are supported. Complete source code for compiler is included. Requires ORCA/M.

## APPLE II UTILITIES

A.P.E. Pro (A.P.P.L.E. Co-op)

#T2SAPE \$16.95 (\$.81)

Popular Applesoft Program Editor, both ProDOS and DOS versions on disk.

Chart 'n Graph Toolbox (R. Wagner Publ.)

#T2SCNG \$25.95 (\$1.00)

Chart and Graph Commands for Applesoft. Requires 48K II, II+, IIe, IIc or IIGS with DOS 3.3 or ProDOS.

Copy II Plus, v. 6.6 (Central Point Software) New!

#T2SCPP \$19.95 (\$0.88)

One of the most powerful backup copy programs available, as well as being a most versatile and comprehensive disk/file manipulation utility for II family.

Powerful bit copy lets you automatically back up over 400 protected programs.  
Note: Version number you receive may be higher than listed above.

Crypto (Byte Works)

#T2SCYP \$14.50 (\$.44)

Text compression algorithm reduces ASCII disk files by 40-50%. DOS 3.3 and ProDOS versions included. Unlocked and copyable. II+ (48K), IIc, IIe.

Database Toolbox (R. Wagner Publ.)

#T2SDBT \$29.95 (\$1.00)

Over 40 Data Handling Commands for Applesoft. Requires 48K II, II+, IIe, IIc or IIGS with DOS 3.3 (ProDOS compatible).

Developer Disk #1 (Nite Owl)

#T2SDDR \$29.95 (\$.75)

Revision of a previous product. In ProDOS for IIc, IIe, or IIGS in emulation mode.

Developer Disk #2 (Nite Owl)

#T2SDD2 \$19.95 (\$.69)

Utility program series. IIc or IIe, 80 columns and printer required.

ProCOMMAND —The Commander (A.P.P.L.E. Co-op)

#T2SPCM \$12.95 (\$1.00)

ProDOS utilities and new commands.

ProZAP (A.P.P.L.E. Co-op)

#T2SZAP \$12.95 (\$.50)

P-TRAL (Woodchuck Industries)

#T2SPTL \$117.00 (\$2.69)

Requires 64K; reads either ProDOS or DOS 3.3 source; Pascal 1.1-1.3 output.

Video Toolbox (R. Wagner Publ.)

#T2SVDT \$29.95 (\$1.00)

Works in 40 or 80 columns. Requires 48K II, II+, IIe, IIc or IIGS with DOS 3.3 (ProDOS compatible).

Wizard's Toolbox (R. Wagner Publ.)

#T2SWTB \$25.95 (\$1.00)

Requires 48K II, II+, IIe, IIc or IIGS with DOS 3.3 (ProDOS compatible).

## MACINTOSH SOFTWARE

### MACINTOSH LANGUAGES & LANGUAGE SUPPORT

B-Tree Helper® v 1.4 [(M)agreeable Software]

\$69.95 (\$.50)

#TMSBTT for TML Pascal v. 2.0

#TMSBTL for Lightspeed Pascal v. 1.0

#TMSBTM for MPW Pascal v. 1.0

A set of Pascal subroutines that insert, find and delete records from a B-Tree file. Works on any Mac.

Consulair 68000 Development System (Consulair Corp.)

#TMSCDS \$69.95 (\$3.00)

Formerly Apple's MDS V 2.0. Site licenses and university discounts available.

Consulair 68020/68881 C Compiler (Consulair Corp.)

#TMSC20 \$469.00 (\$3.00)

Consulair MacC development system for the Macintosh II or other Macintosh with 68020/68881 processors. Includes Consulair MacC/ MacC Toolkit development system.

DevHELPER® [(M)agreeable Software]

#TMSDHY \$39.95 (\$2.00)  
Written in TML Pascal. Works on any Mac. Includes source listings.

Extender Grafpak (Invention Software) New!

\$45.95 (\$.69)  
#TMSEGL for Lightspeed Pascal  
#TMSEGT for Turbo Pascal

Compiled libraries to create professional-quality graphs in your applications; seven different graph formats, titling and labeling, definable plotting symbols, multiple curves and grid patterns, etc.

Express Form (Evolutionary Commercial Sys.)

\$59.95 (\$.63)  
#TMSX05 for TML Pascal  
#TMSX09 for LightSpeed C & Pascal  
#TMSX10 for MPW C & Pascal

A forms and screen manager for the Mac family including the SE and II. Requires MacExpress (see below).

IFAM (Tech-Pro Utilities)

\$59.95 (\$.63)  
#TMSIFT for TML Pascal  
#TMSIFL for Lightspeed Pascal

Efficient Indexed File Access Method.with ten functions; follows Pascal calling conventions.

Lightspeed C (Think Technologies)

#TMSLSC \$126.95 (\$3.25)  
Works on all Macs and XL.

Lightspeed Pascal (Think Technologies)

#TMSLSP \$87.95 (\$3.25)  
Compatible with Mac and Lisa Pascal.

MacApp Object Library #1 Jan.,1987

#TMSOL1 \$15.00 (\$.50)  
First of a series, contains such goodies as pop-up windows, split frames, and iconic menus.

MacApp Object Library #2 Aug.,1987 New!

#TMSOL2 \$25.00 (\$.50)  
Second disk contains a skeleton spreadsheet, LISA style stationery pads, a very experimental UNIT for those interested in Partially Ordered Sets, and a UDialog object that does document sizing a la MacDraw.

Mac C and MAC C Toolkit (Consulair Corp.)

#TMSCNC \$330.00 (\$3.00)  
Gives direct access to the Toolbox without glue routines. Any Mac or XL.

MacC Jr. (Consulair)

#TMSCJR \$67.95 (\$1.44)  
Introductory C language development system. Based on Consulair Mac C. Any Mac with at least 512K of memory; HFS/MFS.

MacExpress (ALSoft)

\$134.95 (\$2.75)  
#TMSEXT for TML Pascal  
#TMSEXL for LightSpeed C & Pascal  
#TMSEXM for MPW C & Pascal

Completely in assembler for speed and compatibility with many development environments. No license fees or royalties required.

MacForth Plus (Creative Solutions)

#TMSMFP \$169.95 (\$3.50)  
A powerful, interactive, multi-tasking programming environment. Easy upgrade

options for registered users.

Mac-PROLOG (Programming Logic Systems)

#TMSPLG \$239.95 (\$2.00)

Supports three different programming environments: LPA's standard LISP-style syntax, prefix syntax similar to Clark and McCabe's SIMPLE and the Edinburgh syntax by Clocksin and Mellish.

MacScheme (Semantic Microsystems)

#TMSMSC \$98.95 (\$1.00)

Implementation of LISP for the 512K and Plus uses byte code compiler technology. Can use RAM up to 16mb.

MacTRAN 77 FORTRAN v. 2.0 (DCM Data Products)

#TMSMTN \$154.95 (\$2.00)

Self-contained ANSI-standard FORTRAN 77 development system. High-level Toolbox calls built in. Many features add complete support for Plus, SE and II, 68881.

Programmer's Extender v.1 (Invention Software)

\$59.95 (\$2.00)

#TMS1AC Aztec C

#TMS1LC Lightspeed C

#TMS1LP Lightspeed Pascal

#TMS1TP TML Pascal

Flexible and modifiable library routines; 90% also contain source code. Easily mix low-level calls with the Extender's high-level routines.

Programmer's Extender v.2 (Invention Software)

\$59.95 (\$2.00)

#TMS2AC for Aztec C

#TMS2LC for Lightspeed C

#TMS2LP for Lightspeed Pascal

#TMS2TP for TML Pascal

Sixty new functions, 80% contain source code. Requires Programmer's Extender v.1

SemperSoft™ Modula-2 (Semper Software) New!

#TMSSM2 \$96.95 (\$0.56)

One-pass compiler written for MPW. Code and data are compatible with and may be linked on the same basis as MPW Pascal. Supports II 68881 via SANE floating point traps.

TML MacLanguage Series PASCAL (TML Systems)

#TMSTMP \$69.95 (\$1.44)

Compiles Lisa and Macintosh Pascal programs, and integrates with MDS assembly and C routines. Supports Object Pascal and MC68881 floating point. 512K, Plus, and XL, HFS.

TML Modula-2 (TML) New!

#TMSL2 \$69.95 (\$1.50)

Designed to work within the MPW environment so code may be integrated with MPW Pascal and Assembler. Interfaces to all Toolbox routines provided.

TML Source Code Library (TML)

#TMSSCL \$62.95 (\$.50)

A collection of 18 example Pascal applications representing over 1mb. of source code.

TML Database Toolkit (TML)

#TMSDBT \$69.95 (\$.81)

Toolkit of Pascal source code. Uses ISAM system Compiled programs including Toolkit code may be distributed